Sun rises on University’s North Campus

By Andy Cleddenen

In the past few years, the University acquired the former Angelus Uniform Factory and adjacent property formerly owned by Radiant Products in St. Louis City. Now that property is becoming the newest University campus, known as North Campus.

Located north of Delmar Boulevard behind The Paguate and adjacent to the MetroLink stop in that area, North Campus will house several University departments and can be reached via the University’s green line.

The Office of Parking and Transportation Services, RTIC, Top Care Lawn Service, Huntleigh Shuttle Operations and Campus Mail Services are all moving to the new location. Other departments may move in the future, depending on space.

All Campus Mail Services is moving to North Campus, the postoffice office will continue to sell stamps and other U.S. Postal Service products from its current location.

Students, faculty and staff might be most interested in the move of the parking office, which will be at 700 Rosedale Ave.

The office will retain the same phone number and expects to be open for business in its new location Aug. 9. To help facilitate the move, parking and transportation services will be closed Aug. 6.

“All business will be conducted out of the office,” said Lisa Underwood, manager of parking and transportation services. “We will plan to operate remotely from the old South 40 office during student move-in to make it easier for students to visit us.”

This shut down, according to Underwood, will last from Aug. 26-29.

The Campus Mail Store will continue to offer daily passes, and we are looking at other ways to make daily passes available to the campus.

See Campus, Page 6

MetroLink construction at Skinker Boulevard and Forest Park Parkway — as seen above, looking south from the roof of the 276 N. Skinker Building — has continued this summer, as it has at numerous other St. Louis-area sites. Already served by a MetroLink station at the Medical Campus, the University will further benefit from three new stations: at Skinker and the parkway; at Big Bend Boulevard and the parkway; and at West Campus, at the parkway and Forsyth Boulevard.

Skinker Blvd. will close for 2.5 days for installation of temporary bridges

By Andy Cleddenen

From 9 p.m. July 30 to 6 a.m. Aug. 2, Skinker Boulevard will be closed to traffic at Forest Park Parkway.

Only local traffic will be permitted on Skinker between Clayton Road and Lindell Boulevard and between Delmar Boulevard and Pershing Avenue. There will be a traffic barricade that prevents vehicles from traveling south of Pershing and north of Lindell, and a project staff person will prevent any pedestrian traffic through the construction site.

Additionally, the roadway will be closed at the same time Skinker is closed. Local traffic accessing the University will need to use alternate entrances.

The roadway closures are necessary for the installation of the temporary bridges that will carry traffic over tunnel construction beneath the intersection of Skinker and the parkway.

The dates and times could change in the event of bad weather or unforeseen conditions.

No pedestrians will be permitted through the intersection of Skinker and the parkway during this closure. Northbound pedestrian traffic will be diverted to east on Lindell, north on Des Peres Avenue, west on Pershing and then north on Skinker.

Southbound pedestrian traffic will travel east on Pershing, south on Des Peres, west on Lindell and then south on Skinker.

The pedestrian detours are non-negotiable. There will be no safe path through the intersection during this weekend.

Koyal’s Coffee will be accessible by foot or car, and people can still get to Lindell and Brookings Drive.

Motorists traveling south on Skinker will detour east on Delmar, south on Kingshighway Boulevard, west on Interstate 64 (Highway 40) and then south where Skinker becomes McCluer Avenue.

Northbound motorists will detour east on Interstate 64, north on Kingshighway, west on Delmar, and north on Skinker.

For more information about the MetroLink extension, including road closure and construction information, go online to crosscounty.org or call the project hotline at 923-3050.

The essence of a science career

STARS program provides key experience

By Tony Fitzpatrick

An 17-year-old student from John Burroughs School spent a good portion of this summer working with a University mentor to develop a program that someday will make a game “rage against the machine.”

Steven Anderson of Creve Coeur, Mo., spent six weeks working with Stan Kowancy, Ph.D., research associate in computer science and engineering, on developing a computer program that can play a human in the extremely challenging game of Arimaa, a board game similar to chess but more difficult for a computer to beat.

Inspired by IBM’s Deep Blue, which beat chess world champion Gary Kasparov in 1997, computer programmer Omar Syed invented the game and then offered a challenge: a $10,000 award to anyone who can create a program that can beat a human at Arimaa before 2020.

Anderson has been sights on getting a start to do just that.

For six weeks, Anderson, using artificial intelligence (A.I.) approaches, developed a program that prunes from tens of thousands of potential Arimaa moves to focus on about 100 moves for serious consideration, all the while learning the program language JAVA, writing a 15-page research paper and taking notes for a 10-minute oral presentation.

He is one of 48 academically talented high-school juniors and seniors who partake in the Pfizer Inc. and Solutia Inc. 2004 Students and Teachers as Researchers (STARS) program. It pairs students and teachers with research mentors from the University of Missouri-St. Louis, Saint Louis University and Washington University.

See STARS, Page 6

Animal tissue transplants could treat organ failure

Newly grown kidneys shown to sustain life

By Michael C. Perry

Growing new organs to take the place of damaged or diseased ones is moving from science fiction to reality, according to University researchers.

Scientists have previously shown that embryonic tissue transplants can be used to grow new kidneys inside rats.

In their latest study, the researchers put the new kidneys to an unprecedented and critical test, by removing the rat’s original kidney and placing the new kidneys in position to take over.

The new kidneys were able to successfully sustain the rats for a short time.

“We want to figure out how to grow new kidneys in humans, and this is a very important first step,” said Marc R. Hammerman, M.D., the Chromatolopy Professor of Renal Diseases and leader of the study.

“These rats lived seven to eight days after their original kidneys were removed — long enough for us to know that their new kidneys worked.”

The study was published in the Dec. 2003 issue of Organgenesis.

Hammerman is a leader in the burgeoning field of organogenesis, which focuses on growing organs from stem cells and other embryonic cell clusters known as organ primordia.

See Organs, Page 6

Medical News: Jeffrey Gordon named director of Center for Genome Sciences

Arts: Gateway Festival Orchestra to give free concert July 25 in Quad

Washington People: Roberta Seligman’s positive energy inspires her patients, colleagues
Shuttle riders to be required to show identification

of American Culture Studies, all in Arts & Sciences, leads a recent on-campus training session for history. For example, during a training session on "African Americans in the WUSTL for a session on "African Americans in the

American Culture Studies and of African and Afro-American Studies in St. Louis University. In March, the middle-school teachers visited

"Freedom Suits" are available online through the St. Louis Circuit Court Historical Records Project, another collaboration that included faculty, staff and students from American Culture Studies.

"The University has been

Riekes and Olivia White of the St. Louis public schools as a vibrant educational enterprise, bringing a fresh perspective back to the public-school students of Missouri's St. Louis school system.

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Siteman Cancer Center receives grant from MacCo., Edward Jones

BY DIANE DUCK WILLIAMS
The May Department Stores Foundation and Edward Jones each have pledged $1 million to the Stitenman Cancer Center to develop a new cancer treatment challenge grant.

The challenge grant, a $1 million gift from Emerson's Charitable Trust and the Edward Jones Foundation, will establish the Siteman Cancer Village for trailblazing research and education in cancer care.

The site, which includes the new Siteman Cancer Center and the National Cancer Center, is expected to open to the public in 2006.

The May Department Stores Foundation is one of the country's leading department store retailers.

May operates more than 440 department stores and 680 Bri-
diagonal group stores in 46 states.

Edward Jones, head-Quarried at St. Louis, is one of the country's leading investment and financial services firms in the nation.

It serves more than 3 million clients from more than 900 offices in more than 200 locations.
Hilltop, Medical campuses among best commuter workplaces

By ANDREW LEYDEN

According to numbers re-leased by the Environmental Protection Agency (EPA), cars in St. Louis release 247,000 pounds of pollution each day into the air. And a typical household spends 30 percent of its income in driving costs — more than it spends on food.

But Rebecca Green, M.D., Ph.D., pediatric endocrinologist and metabolism specialist, is not a contributor to those numbers.

In her commute to and from work, Green drives as little as she can, the only time she uses MetroLink or her bicycle to make 85 percent of her trips to the Medical Campus. "I believe that it is critical to care for our environment," Green said. "As a physician, I view this as part of my practice caring for my patients, as our environment and the damage we do to it affect the health of our communities. Using alternate transportation does this.

"And I believe we all need to minimize our use of limited fuel resources, to help our children and grandchildren. The car that is used by my family for more than 90 percent of four driv- ing is a Toyota Prius, a gas-electric hybrid, which gets 50 miles to the gallon." The family owns just one of thousands who commute to and from both the Hilltop and Medical campuses on a public transit system, such as programs such as the Mortgage Forgiveness Program, which allows employees to qualify for up to $4,000 or 5 percent of the purchase price of the home as an incentive to live closer to the workplace, and more economical for people to commute.

Because of this program and other efforts including shuttles, compact cars and a hands-on Donor, both the University and Olin's Distinguished Alumni Medicine were recognized by an EPA-created program as the St. Louis Region's Best Workplaces for Commuters in a June 30 ceremony at the Eric F. Newman Education Center on the Medical Campus.

"We are centrally located where employees, students and visitors can take advantage of public transportation, and we hope that even more will do so when MetroLink begins to serve the Hilltop and West campuses in 2006," according to Steve Hoffman, assistant vice chancellor for stu- dents and director of operations. "We are always interested in ways in which we can reduce the demand for parking at all of our campuses.

One of those is MetroLink. Green, an accdent supporter of the expansion, had a sign in her Parkview office urging people to ride "Metro, The Right Way To Go."

"Our family has driven to the airport "true" MetroLink started running. She has a station less than a mile from her home and only two blocks from her office. Friends and family will be on the plane and mailed MetroLink tickets to get them from the airport to the closest station, where they will use the train.

"It is easy to manage patient calls when I am not dri- ving, as taking a call during my drive to work or home means I need to pull over and take the call, which I can then give my full attention," said Green. "And as a pediatric diabetes doctor, our calls are quicker at home, allowing them overlap with my drive/commute time.

And I like the train. I meet people I probably would never had the opportunity to cross paths with otherwise. I can also do a lot of the tasks when ever we can. We have used it to go to the airport, Convention Center, the Arch, Union Station, or basically, you can get onto the train, we try to use it as much as possible.

Best Workplaces for Commu- ters is a voluntary partnership program created by the EPA and spearheaded locally by Citizens for Modern Travel, Rideshers, the University's Olin School of Business, and the St. Louis Regional Clean Air Partnership. It is designed to cut traffic-related air pollution.

"We feel honored to receive this award," said Jan Muraski, manager of the Office of Trans- portation Services at the School of Medicine. "The University and medical school strive to be the good stewards for the environment. Air pollu- tions are aware of issues in the past, and we are striving to be part of the solution."

To qualify as one of the St. Louis Region's Best Workplaces for Commuters, employers had to provide at least one commu- nity commuter benefit such as monthly transit or vanpool subsi- dies of at least $30; a central point of contact for information, who actually informs employees of available commuter benefits; at least one telephone number for compressed work schedules and preferred recognition programs; and parking.

The Gateway Festival Orchestra concludes summer season

The Gateway Festival Orchestra will conclude its 41st annual season on Aug. 26 with a special performance with composer evenings with "Vienna's Masters," a concert emphasizing music of composers working in that city, at 7:30 p.m. July 25 in Brookings Quadrangle.

The orchestra is conducted by John Morris Russell of music at the University of Missouri-St. Louis.

The program will open with Wolfgang Amadeus Mozart's Symphony No. 35 in D Major ('Muffuss') and also includes勃拉姆斯' heard Music for a Royal Ballet, a lighthearted early work that is not as nurser- dance, contains hunting, drinking and love songs; as well as a waltz dance. "Vienna's Masters," a concert emphasizing music of composers working in that city.

Featured artist Paul Garrison, instructor in clarinet at WUSTL, will perform with the Gateway Festival Orchestra on a number of corporate and community events. Information is provided to the

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While the persistence and drive of the cyclists in this month’s Tour de France is amazing and impressive, it has its own world-wide competitors. Edwin D. Wolfgram, M.D. and his wife, Dorothea Wolfgram, is available at record.wustl.edu, or by calling 367-1944 or toll-free (877) 638-3725. You have to sustain it.”

Edwin D. Wolfgram, M.D. (left), assistant clinical professor of psychology in the School of Medicine, trains at Francis Field with Michael D. Moll, service dean for business affairs in the School of Engineering & Applied Science. “He’s incredibly inspirational and has taught me to exercise smarter,” Moll says of Wolfgram, the Ironman triathlon world champion on the 70-74-year-old-age group.

Never Too Late

It’s Never Too Late. Dr. Ed Wolfgram’s Book of Fitness, by Edwin D. Wolfgram, M.D. and his wife, Dorothea Wolfgram, is available at the Campus Bookstore or the Hilltop Campus and the Medical Bookstore on the Medical Campus. It can be ordered online at fitness-wustl.edu, or by calling 367-1944 or toll-free (877) 638-3725.

Wolfgram brushes aside the idea that he should slow down as he gets older. “That’s dangerous,” he says. “If you are wanted, it will be used, and not just until age 70. We were not intended to be sedentary.

“Look at the animal kingdom; squirrels don’t retire after they’ve been around for a number of years, and nothing else does, basically. They keep the mark of the wolf they die.”

Wolfgram says cross training largely gave him the edge to defeat four other competitors in his group at the title of the world’s top endurance athlete between 70-74. Of course, swimming, biking and running are part of his regular training routine. For several years, he has been a regular to other sports, including football, training, yoga and Pilates.

“The human form was meant to be used. People have destroyed their lives by not doing so. And having severe adverse effects — diabetes, coronary bypasses, strokes. That was frightening” he says. “The most of the amazing people I’ve ever known.”

Wolfgram and Michael D. Moll, vice dean for business affairs in the School of Engineering & Applied Science, have been participating in triathlons together for 12 years. The only two members of the “5:30 Club,” they run a 5K in Forest Park very early on Thursday mornings in the spring, summer and fall. Membership in the club, however, is open.

“Head and swimming coach David Shively have discussed training schedules, stroke techniques and body position,” Wolfgram says. “It’s extremely discouraging and physically his very impressive. He’s one of the most amazing people I’ve ever known.”

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New turf at Francis Field to benefit student-athletes

BY CHRIS MITCHELL

FieldTurf is being installed as the new playing surface of historic Francis Field, the home of the University football team and men’s and women’s soccer teams.

The installation of a synthetic surface on Francis Field, our highest outdoor priority, will complement the playing experience at Washington University, said John M. Schael, director of athletics. "In an artificial surface on the lighted Francis Field will significantly improve the playing conditions currently experienced. In addition, FieldTurf will provide a safe and consistent playing surface usable seven days a week for student-related athletic and recreational programming needs," says John M. Schael, director of athletics.

Organic growth factors

Unlike stem cells, organ pri-

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Schaal receives high honor from Yale

By TONY FITZPATRICK

Barbara A. Schaal, Ph.D., the Spencer T. Olin Professor in Arts & Sciences and professor of biology, also in Arts & Sciences, was awarded the 2004 Alumni Access Cross Medal, the Yale University Graduate School's highest honor, at its recent commencement ceremonies. Schaal applies state-of-the-art theory and technology to understanding plant evolution. Major recent emphases are conserving plant diversity, the potential benefits and perils of genetically modified crops and the origins of invasive species. Her seminal work on the plant cassava documented genetic variation among the crop's wild progenitors, leading the way for other analyses. She has consistently been the voice of reason, effective July 1, announced Dean Robert E. Thach, Ph.D.

She has served in the chair of the biology department and has served on numerous committees including the Academic Planning Committee in Arts & Sciences, the Curriculum Implementation Committee and the University Affirmative Action Committee. She serves on the National Research Council's Board on Life Sciences and chairs the committee's council on agricultural biotechnology.

Copenhagen Consensus

Douglas C. North, Ph.D., the Spencer T. Olin Professor in Arts & Sciences and a co-recipient of the Nobel Memorial Prize in Economic Sciences, joins a panel of distinguished economists recently in Denmark for the "Copenhagen Consensus," an intensive forum exploring the costs and benefits of ongoing efforts to address critical global challenges such as war, famine and disease. A package of measures to control HIV/AIDS was identified by participants as the challenge most likely to yield the greatest return on global relief fund investments. Other "very good" investments cited were interventions aimed at fighting malnutrition, actions to reduce the spread of malaria, and increases in education. "Finding a way to end warfare is probably the most important challenge facing mankind, but that's a problem for which there is no easy solution," North said. "On the other hand, we know how to provide people with clean drinking water. We have the medical tools to tackle devastating diseases such as malaria. These problems are solvable — that's where we should be focusing our resources."

VERITAS will be a key to understanding many physical processes in nature.

While a lecturer and then an assistant professor for the "Copenhagen Consensus," an intensive forum exploring the costs and benefits of ongoing efforts to address critical global challenges such as war, famine and disease, Schaal has served as chair of the biology department in 1999 with honors in biology from the University of Illinois at Chicago; a master's in 1977, and a doctorate in 1974, both in population biology from Yale.

She joined Washington University in 1980 as associate professor in biology; she became a full professor in 1986. In 1999, she was elected into the National Academy of Sciences, an honor that recognizes research investigating the evolutionary process within populations using a wide variety of techniques, from field observations to quantitative genetics and molecular biology.

Schaal has served as chair of the biology department and has served on numerous committees including the Academic Planning Committee in Arts & Sciences, the Curriculum Implementation Committee and the University Affirmative Action Committee. She serves on the National Research Council's Board on Life Sciences and chairs the committee's council on agricultural biotechnology.

Becker, 90

Frederick G. Becker, a renowned printmaker who taught in the School of Art from 1948-1968, died Wednesday, June 30, 2004, at his home in Montclair, N.J., of esophageal cancer. He was 90.

Gummer, 66

Burt Gummer, a former professor of social work and emeritus professor at the University at Albany School of Social Welfare, died Thursday, June 30, 2004, at his home in Saratoga Springs, N.Y., of cancer.

Hershey, 85

Elia B. Hershey, M.D., a retired professor in the School of Medicine, died on Thursday, June 24, 2004, of heart failure. He was 85.

Hoffman, 62

Edward H. Hoffman, the co-founder of VERITAS, the most commonly used whole-body scanning procedure for detecting extragalactic infrared emission probes the universe for the first time. The observatory VERITAS, consisting of two 50-meter-diameter telescopes, will be a key to understanding many physical processes in nature.

Hoffman helped develop the first VERITAS 12-meter scanner at Washington University before leaving for UCLA in 1976. A package of measures to control HIV/AIDS was identified by participants as the challenge most likely to yield the greatest return on global relief fund investments. Other "very good" investments cited were interventions aimed at fighting malnutrition, actions to reduce the spread of malaria, and increases in education.

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VERITAS will be a key to understanding many physical processes in nature.
Sengelmann and her husband, Tamir Keshen, enjoy the slopes of Snowmass, Colo. “We love the outdoors; nature soothes us,” she says.

Robert Sengelmann’s passion for patient care inspires her colleagues

Robert Sengelmann

Melbourne, Fla. "I love to hike with my family and friends. Down time is no rare and precious. I also love outdoor sports — swimming, water skiing and running. Nature soothes me.

Family: Along with her parents and husband, Tamir, she also has two brothers and four stepchildren.

Hometown: Santa Monica, Calif.

Hot insider tip: After getting enough sleep, a healthy diet, regular exercise and wearing sunscreen daily — and wearing sunscreen daily — and not smoking — helps preserve healthy skin.

Beauty advice: Cut out your guilt about taking pride in how you look but don’t abuse it either. There’s a healthy balance. It’s perfectly healthy to want to look your best. People that look and feel their best produce and age longer.

By Kimberly Lettig

As a child, Roberta Sengelmann, M.D., spent many weekends making rounds with her father, Robert F. Sengelmann, M.D., a plastic and reconstructive surgeon. Dressed in kid-size scrubs, she gently held the hands of children who had sustained burns, trauma or undergone cosmetic surgery while her father changed their bandages and cared for them. "I always had a primary instinct to want to help people," she says. "Even as a child, I admired the connection my father had with his patients and his ability to improve their lives. It influenced my career after his devotion to his patients."

By the age of 12, Sengelmann was observing her dad’s cases in the operating room. In high school, Sengelmann discovered she had a knack for math and science and was recognized with a merit scholarship. By the age of 18, she graduated, it was clear she was well on her way toward becoming a physician.

Now, as director of the University of Washington’s Center for Dermatologic Surgery and an assistant professor of medicine, Sengelmann specializes in minimally invasive dermatologic surgery, reconstruction and aesthetic surgery. Dr. Sengelmann focuses on prevention and treatment of the effects of sun damage such as skin cancer and age-related changes. She is a Mohs surgeon, who trains Mohs surgery, a technique that allows for the removal of cancer cells and to re-examine the pathology to assure margin status. The technique offers exceptional care rates for non-melanoma skin cancer while allowing preservation of healthy tissue to minimize scarring.

Sengelmann performs nearly 1,000 Mohs surgeries annually and directs a fellowship program at the American College of Mohs Micrographic Surgery and Cutaneous Oncology.

"Dermatologic surgery has truly pioneered minimally invasive aesthetic surgery," she says. "It is imperative that I have the competence and experience of our residents and fellows." Says Lynn A. Cornelius, M.D., chief of dermatology and an associate professor of medicine, "Roberta takes great pride in her work and in imparting her knowledge and skills to her trainees.

Sengelmann also specializes in minimally invasive facial rejuvenation procedures as well as body contouring with tumescent liposuction, a fat removal procedure performed under local anesthesia that helps reduce postoperative bruising, swelling and pain. Recently, Sengelmann has teamed up with two of her father’s surgical colleagues giving her a unique opportunity to shop on the cutting edge of plastic surgery and cosmetic techniques in general.

She continues to be impressed by the latest cosmetic advances, including training, physicians nationally on the latest rejuvenating procedures and serving on advisory boards to help steer the development of new products like Fotona, Er:Yag, Fraxel lasers and Radiesse.

"Roberta’s great face is different, so each case presents its own artistic challenge," she says. "It is the simplest change that can go a very long way in enhancing appearance and boosting self-esteem. I try to help people improve their appearance without interfering with their daily activities and quality of life.

Cornelius explains that while Sengelmann is an excellent dermatologic surgeon, backed with an incredible knowledge of cutaneous malignancies and skin cancer surgery, she also possesses an incredible talent for aesthetics. "Her exceptional training in a select group of her dermatologic surgery colleagues, has been on the forefront of advancing minimally invasive aesthetic surgery," Cornelius says. "She also is an extremely caring, compassionate, detail-oriented and personable surgeon who can help my patients create the combination that serves our speciality well."

Attention to detail

While earning her medical degree at New York Medical College, Sengelmann knew she wanted to become a surgeon but worried between specializing in dermatology and having head and neck surgery or focusing in her father’s footsteps and pursuing plastic and reconstructive surgery.

The desire to focus on disease prevention, early diagnosis and pathology ultimately drew Sengelmann to dermatology and dermatologic surgery.

"I talk to my patients about ways to prevent disease and illness," she says. "Every patient who sees a physician is in some way vulnerable, and it is up to us to help people take responsibility for their own health." Strong and confident, Sengelmann was named the chief resident in dermatology and an associate professor of medicine. "Roberta takes pride in being creative. Everybody’s face is different, so each case presents its own artistic challenge," she says. "It is the simplest change that can go a very long way in enhancing appearance and boosting self-esteem. I try to help people improve their appearance without interfering with their daily activities and quality of life.

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Atlanta medical match

After graduating from medical school, Sengelmann and Keshen completed their residency at the University of Iowa to pursue an internship in plastic surgery and residency in general surgery, respectively.

In 1994, Sengelmann left her fiancé in Iowa and moved to Houston to begin a dermatology residency at the University of Texas–Huntsville Center for Dermatology and ...