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# Record

Dec. 12, 2003

Volume 28 No. 17

Treasuring the Past



Washington University in St. Louis

Celebrating 150 Years

Shaping the Future



## National champs!

### Bears top NYU for record 8th volleyball title

By Nick Povalitis

Still smarting from being swept in the 2002 NCAA Division III National Championship final, the University's volleyball team gathered in mid-August for a preseason party. There, head coach Rich Luenemann made a bold prediction: "I believe we're going to win the national championship."

Fast-forward to Dec. 6 — 41 matches later — and sure enough, Luenemann proved to be a man of his word.

The Bears beat New York University, 30-26, 32-30, 30-22, in the final match of the NCAA Tournament at the University of La Verne (Calif.) Supertents to win their Division III-record eighth national title in 10 trips to the Final Four.

It's Luenemann's first national championship.

"Obviously, I'm elated," he said. "It's a feeling of intense satisfaction that you get when all the pieces fit perfectly together."

"This team enjoyed incredible chemistry and unbelievable senior leadership."

The Bears' final record was an impressive 38-3.

In their four years on the Hilltop Campus, those three seniors — Amy Brand, Cindy McPeak and Katie Quinn — helped lead the Bears to a 145-16 record, four University Athletic Association titles, four NCAA Tournament appearances and of course this year's national championship.

"It was heartbreaking to lose



Volleyball players Katie Quinn (left) and Jasmine Hunt are all smiles as they help their Bear teammates hoist the NCAA Division III National Championship trophy Dec. 6 at the University of La Verne in California. The Bears swept New York University in the finals for their Division III-record eighth national title.

last year in the final," McPeak said of last year's national runner-up finish to the University of Wisconsin-Whitewater. "With three seniors on the team, we weren't going to let that happen again."

"We peaked at the right time," McPeak, who was named to

the NCAA Championship All-Tournament Team, finished the season with 315 kills, a team-high 52 service aces and 105 total blocks.

Quinn, a third-team American Volleyball Coaches Association (AVCA) All-American, led the

See **Volleyball**, Page 5

## Anti-platelet drug dramatically slows malignant tumor spread

By Michael C. Purdy

School of Medicine researchers have dramatically slowed the spread of a highly malignant tumor in mice by disabling platelets with an experimental drug.

Based on earlier experiments, scientists had hoped the drug, ML464, would block the spread of a melanoma cell line into bones. They were pleasantly surprised to find that not only did the treatment block bone metastases — the spread of cancer into the bone — but it also reduced the development of new tumors in organs like the liver, intestines and kidney.

"Bone metastases appear in 75 percent of all patients who develop metastatic breast and prostate cancer," said Katherine Weilbaecher, M.D., assistant pro-

fessor of medicine and of pathology and immunology. "These metastatic tumors can be very painful and weaken the bone to the point of fracture."

Weilbaecher, the principal investigator in the new study, cautioned that while it might be possible to use ML464 or other anti-platelet drugs to achieve the same effect in humans, such treatments have not been tested for their anti-metastatic effects yet and would leave patients at risk of bleeding.

"This is a very exciting start, but it's just the beginning," Weilbaecher said. "The more we can understand this, the more narrowly we can target our therapy and explore the possibility that we might be able to block metastasis and only partially block clotting"

See **Drug**, Page 5



Weilbaecher

### This Week In WUSTL History

Dec. 13, 1870

William Chauvenet, the University's second chancellor, died from complications of a lung ailment. The University awarded him an honorary doctor of laws degree shortly before his death.

Dec. 15, 1944

The freshman class and the Student Senate sponsored "Hello Day," a celebration of friendliness in which students were encouraged to say "hello" to each other.

Dec. 18, 1925

Chancellor Herbert S. Hadley held an open meeting of the student body to discuss the issue of an athletic mascot. Several nicknames were considered, including Eagles, Bearcats and Bears. In the end, the students voted 320-106 to change the name from Pikers to Bears.

This feature will be included in each 2003-04 issue of the Record in observance of Washington University's 150th anniversary.

## Sam Fox Arts Center to break ground April 14

By Liam Otten

The Sam Fox Arts Center will break ground for two new buildings — an art museum and a School of Art studio facility — April 14, Chancellor Mark S. Wrighton announced Dec. 10.

Designed by Pritzker Prize-winning Japanese architect Fumihiko Maki, the new buildings will be integrated with three existing facilities to form a comprehensive, five-building arts complex at the southeastern end of the Hilltop Campus.

Internationally acclaimed artist Frank Stella will present a keynote address during the public groundbreaking ceremony at 4 p.m. The event will also feature remarks by Maki.

"This will truly be a great day for Washington University, and one that we have long anticipated," Wrighton said. "That it has finally arrived is testament to the excitement the Sam Fox Arts Center has sparked in St. Louis and to the generosity of arts supporters at all levels."

Earl E. and Myrtle E. Walker Hall, dedicated in honor of St. Louis philanthropists Earl E. and Myrtle E. Walker, will be located immediately north of the School of Art's historic, Beaux Arts-era Bixby Hall.

The 65,000-gross-square-foot Museum Building, located immediately adjacent to Walker Hall, will include permanent and tem-

### More on Page 6

- A major gift from Eric P. and Evelyn E. Newman will create a state-of-the-art numismatic museum as part of the Sam Fox Arts Center.
- The new School of Art studio building will be named in honor of St. Louis community leaders Earl E. and Myrtle E. Walker.

porary exhibition spaces as well as offices and state-of-the-art storage areas for the Gallery of Art.

The facility will also house a gallery for use by faculty and students; offices and classrooms for the Department of Art History & Archaeology in Arts & Sciences; and the 13,000-square-foot Kenneth and Nancy Kranzberg Information Center.

In addition, a \$2 million gift from Eric P. and Evelyn E. Newman will create a state-of-the-art, 3,000-square-foot numismatic museum on the Museum Building's ground floor.

The Newman Money Museum will house exhibitions and audio-visual displays relating to the history of coins and currency; a numismatics library; a full-time curator's office; and workspace for visiting scholars.

In addition, researchers will have access to the Newman family's renowned private collection, one of the nation's strongest in

See **Center**, Page 7

## Graduate student comes up big twice with research

By Andy Clendennen

Shanti Deemyad hit the jackpot. Not once, but twice.

Deemyad, a fifth-year graduate student in physics in Arts & Sciences, recently concluded groundbreaking research on the superconductivity of lithium.

And her study was a recent cover story of *Physical Review Letters*, the pre-eminent physics journal in the world for publishing important results in the field, with her as first author.

To publish in this journal at all is difficult, as the acceptance rate is very low. And for a graduate student to be the first author of a groundbreaking study is even rarer.

Superconductors are materials with infinite electrical conductivity and perfect diamagnetism — meaning that contrary to regular conductors, there are no energy losses when the electrical power is carried through a superconductor.

Four years ago, lithium was predicted to become a superconductor under pressure. But due to difficult experimental conditions of working with lithium, the discovery of the superconductivity in lithium didn't happen until 2002.

But that first discovery was somewhat flawed.

"Two groups reported the

observation of superconductivity in lithium before us," said Deemyad, who is doing her doctoral research with James S. Schilling, Ph.D., professor of physics. "Neither of these groups used any pressure medium, which means that their samples were squashed under non-uniform pressure conditions."

"Since the distribution of pressure in the material under these highly non-hydrostatic conditions is not known, it is difficult to analyze the results of these experiments."

So Deemyad and Schilling drew up their own experiments, using liquid helium as a pressure medium and performed the first experiments on lithium under the most hydrostatic conditions possible. Basically, she applied pressures as high as 670,000 atmospheres to the helium, which in turn pressed on the lithium sample equally on all sides.

This procedure was in direct See **Student**, Page 5

### Happy Holidays

The Record will not be published again until the beginning of the spring semester. Our next issue will be Jan. 23.



## Species determination model is developed by graduate student

By TONY FITZPATRICK

When a paleontologist wishes to define a new species, 'dem bones is all 'dere is.

Unlike scientists studying animals living today, paleontologists can't look into the past to document an ancient beast's physiology or mating habits.

Using all the information available, paleontologists must confront the fossil-world reality that the classification of a new fossil species is subjective and varies among taxonomists.

But how much different do the bones of similar animals have to be for the classification of a new species?

That is the question that drove Stephanie Novak, a doctoral candidate in the Department of Earth and Planetary Sciences in Arts & Sciences, to develop a model to determine classification of a new species. She calls it the "Archosaurian Morphospecies Concept."

Novak presented details of her model at the annual meeting of the Geological Society of America, held in November in Seattle.

Her discovery began in 2002 while she was pursuing a master's degree at the University of North Carolina. She was studying a fascinating critter that competed with early dinosaurs 220 million years ago but went extinct at the boundary of the Triassic and Jurassic eras.

*Postosuchus* (post-o-SOOK-us), though appearing superficially to resemble a classic meat-eating dinosaur with a huge skull and powerful flesh-tearing jaws, was actually a member of the Rauisuchia (raw-ih-SOO-kee-a), the dominant terrestrial predators during the middle and late portions of the Triassic era and the "Porches" of their time.

The beast moved mainly on four legs and looked like, as Novak referred to it, "an alligator on stilts." It thrived at a time when there were no hardwood trees, grass or flowers and dinosaurs were just coming onto the scene.

*Postosuchus* is estimated to have reached a length of 25 feet and was distinguished from dinosaurs by hip structure and a special ankle structure. This enabled it to walk heel-toe as alligators and crocodiles do today, as opposed to the on-the-tips-of-the-toes-walking of dinosaurs.

Novak investigated a *Postosuchus* specimen excavated from the Coelophysis Quarry of Ghost Ranch, N.M., a famous locality teeming with dinosaur fossils (mainly *Coelophysis bauri*) as a result of a mass death. While comparing the Ghost Ranch specimen with two specimens of *Postosuchus kirkpatricki* from Texas, she noticed some differences in the bones.

Not sure whether these differences were numerous enough or skeletally important enough to make the Ghost Ranch *Postosuchus* a new species, she decided to do a little more research before making a



Stephanie Novak, a doctoral candidate in earth and planetary sciences in Arts & Sciences, measures tarsal bones from a *Postosuchus* skeleton. Novak has developed a model to determine new species. *Postosuchus*, resembling an alligator on stilts, emerged before dinosaurs and briefly competed with them 220 million years ago.

"As a concept, this is not statistically perfect. But I think it's something taxonomists can consider if they are in doubt over classifying something. It's a kind of benchmark with historical validity."

STEPHANIE NOVAK

final decision.

Because the rauisuchian fossil record is generally sparse, Novak instead dove into the dinosaurian fossil record in attempts to quantify the amount of skeletal difference historically regarded as valid to erect a new species within the same genus. She analyzed 28 genera containing 68 species from both the saurischian (lizard-hipped) and ornithischian (bird-hipped) orders.

Using the fact that the skeleton of a dinosaur generally contains approximately 338 different bones, Novak catalogued the number of differences as well as where the differences were found on the skeletons. Calculations indicated that, on average, two species of dinosaurs

See **Species**, Page 7

## ITeach symposium theme: 'Innovations in Teaching'

By NEIL SCHOENHERR

The theme of the second ITeach symposium, a free event for faculty members Jan. 14-16, will be "Innovations in Teaching."

ITeach will include a series of presentations and a full day of workshops on a variety of topics, including:

- Telesis, the University's new course management system now in pilot stage;
- Internet plagiarism and academic integrity;
- EGrades — electronic grade submission;
- Using technology to enhance classroom teaching; and
- "Faculty Expectations of Technology in Teaching," a plenary session.

"Although we are focusing on using technology in teaching at this symposium, it isn't just for the sake of using technology," said Regina Frey, Ph.D., director of the Teaching Center, one of ITeach's sponsors. "What's important is that the technology support or enhance the teaching our professors already do."

"This event gives faculty the opportunity to see what technology is out there, how their own colleagues are using it and to

make a decision whether it's worth the effort to incorporate it into their own teaching."

ITeach is also sponsored by Arts & Sciences and University Libraries.

"Our faculty are showing increasing interest in how technology can make their teaching more efficient and student learning more effective," said Dennis J. Martin, associate vice chancellor and associate dean of Arts & Sciences.

"ITeach is the place where faculty, regardless of their level of technological fluency, can learn from one another about these things and spend a few days between semesters, thinking and learning from each other about the art and science of teaching."

ITeach sessions will be focused on the activities of University faculty. Faculty members will lead presentations.

Classes will take place at several locations around campus, and pre-registration is required. Attendance will include meals and a concluding reception, and attendees will be entered into a drawing for a laptop computer and other prizes.

For more information and to register, go online to [artsci.wustl.edu/iteach](http://artsci.wustl.edu/iteach) or call 935-4513.

## Trustees receive updates on BioMed 21, University athletics

The University's Board of Trustees met Dec. 5 and heard reports about the status of BioMed 21 — a \$300 million biomedical science initiative — and the University athletics program, according to Chancellor Mark S. Wrighton.

The trustees also elected Harry J. Seigle, president and chief executive officer of Seigle's Home and Building Centers Inc., as an Ethan A.H. Shepley trustee for a four-year term.

Larry J. Shapiro, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine, gave an update on the recently announced BioMed 21. Shapiro reviewed future plans for

the strategic initiative, which will bring new knowledge of the human genetic blueprint to the patient's bedside and change how illnesses are understood, diagnosed and successfully treated.

BioMed 21 will include faculty from the schools of Medicine, Engineering & Applied Science and Arts & Sciences.

Director of Athletics John M. Schael co-presented a report on University athletics, heralding the recent successes of varsity teams in competition among University Athletic Association schools. He was joined in his presentation by Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts & Sciences.

See **Trustees**, Page 7

## PICTURING OUR PAST



Members of the Washington University Effort for AIDS help assemble an 11,000-panel section of the Project AIDS Memorial Quilt, which was displayed in the Field House Oct. 14-16, 1994. The group teamed with the NAMES project and St. Louis Effort for AIDS to bring this portion of the then-27,000-panel quilt to St. Louis and reassemble it at the University. Each 3-foot-by-6-foot panel represents a person who has died of AIDS. The AIDS Memorial Quilt was first displayed Oct. 11, 1987, on the National Mall in Washington, D.C., during the National March on Washington for Lesbian and Gay Rights. It covered a space larger than a football field and included 1,920 panels. It is now the largest ongoing community arts project in the world, including more than 44,000 colorful panels.

Washington University is celebrating its 150th anniversary in 2003-04. Special programs and announcements will be made throughout the yearlong observance.



## Record

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 Washington University in St. Louis



## School of Medicine Update

# Neurological Research News

Nearly 28,800 neuroscientists convened in November in New Orleans for the 33rd annual meeting of the Society for Neuroscience. University research was among the presentation highlights.

## Implanted stimulator for Parkinson's disease impairs cognitive function

By JIM DRYDEN

**S**chool of Medicine investigators have found that stimulating the brain's subthalamic nucleus (STN) to control motor symptoms of Parkinson's disease has an unintended consequence: It interferes with cognitive function.

When given cognitive tests, patients performed better when their stimulators were turned off than when they were turned on.

"It's clear that stimulation can provide a great deal of benefit to patients with Parkinson's disease," said principal investigator Tamara Hershey, Ph.D., assistant professor of psychiatry. "But when we looked at cognitive function, patients did better when their stimulators were turned off, although these effects were subtle."

Hershey and her colleagues tested 24 patients with Parkinson's disease. All had electrodes surgically implanted into the STN, and when the electrodes were stimulated, all had improvements in tremors, stiffness, shaking and other motor symptoms that characterize Parkinson's disease.

The subjects were given two tests. In one, they looked at a computer screen and were asked to remember the spatial location where a dot appeared

on the screen. They had to keep track of either one or two dots. When the task involved remembering the location of more than one dot, subjects performed better when their stimulators were off.

In a second task, subjects were required to press a button when a letter appeared on a computer screen and not to push the button when they saw a number. When subjects saw many letters and very few numbers, their natural tendency was to continue pressing the button whether their stimulator was on or off.



Hershey

"When a number would appear, they had to try to inhibit the natural tendency to press the button," Hershey said. "Stimulation interfered with that inhibition — when stimulators were turned on, people had a harder time stopping themselves from pressing the button when they weren't supposed to."

Hershey said the STN is very important in motor control and in Parkinson's disease, but it also has connections to cognitive areas of the brain. When a stimulator is turned on, it clearly changes the behavior and the

firing pattern of neurons in the STN, but she said this study suggests that stimulation also may affect cognitive pathways in the brain.

In standard clinical practice, brain stimulators are set as high as they can go without causing motor side effects. But based on these findings, Hershey believes it might be possible to set stimulator parameters lower to provide motor benefit without affecting cognitive function.

"It's important to note that although the motor benefits of stimulation are very dramatic, the changes in cognitive function tend to be much less obvious," she said. "Those subtle effects fit with anecdotal reports from patients who sometimes complain that when their stimulators are on, they don't think quite as clearly."

"It's not such a dramatic change that everyone complains of it, but it could make things like paying bills or balancing a checkbook more difficult."

Hershey hopes to continue this research and test people at various stimulation levels to see whether it is possible to get motor benefits without causing declines in cognitive performance. She would also like to learn whether the location of the electrodes within the STN has any effect on cognitive declines, but technical limitations in imaging make that question difficult to study.

## Brain areas involved in reading change during development

By GILA Z. RECKESS

**C**hildren, adolescents and adults use their brains differently during a simple reading task, according to University researchers.

Using functional magnetic resonance imaging (fMRI), the team identified 17 brain regions that distinguish the three age groups.

"This study directly compares simple word reading across the age range from school children to adulthood," said principal investigator Bradley L. Schlaggar, M.D., Ph.D., assistant professor of neurology, of radiology, of anatomy and neurobiology and of pediatrics.

"By helping us understand how healthy individuals develop language abilities, these data may ultimately be useful in improving early diagnosis of language disorders and in developing effective interventions."

In the past, experts believed it was difficult, if not impossible, to compare brain activation between children and adults.

But in a 2002 study published in the journal *Science*, Schlaggar's team presented new approaches for comparing fMRI results in children and adults and evidence that those approaches may offer valid, useful insights.

For example, the researchers used tasks that involve responding out loud, allowing them to only use brain images taken during correct responses made in about the same amount of time for all participants.

By focusing only on responses matched for accuracy and speed, the researchers argue that their comparisons reveal maturational differences and similarities in brain activity as opposed to differences in individual skill levels.

Because talking forces the head to move, which in turn may compromise the clarity of brain images, the group also employed a relatively new method of analyzing imaging results called event-related fMRI, developed in part by University researchers. The technique allows scientists to individually analyze images that correspond to the exact

moment a response is made and omit images distorted by head movements.

Incorporating these same methodological strategies, Schlaggar's team compared fMRI scans from 30 children (ages 7-10), 24 adolescents (ages 11-17) and 21 adults (ages 19-35) taken while participants read single

words aloud.

The amount of brain activity in 17 regions differed between the three groups. Activity in some brain regions gradually decreased with age — they were the most active in the youngest age-group and were least active in the adult group.

Those regions include the bilateral precuneus and posterior cingulate, located toward the back of the brain, and the middle temporal gyrus on the surface of the brain's left side.

Other regions, including the anterior cingulate in the front of the brain and the left caudate, located deep within the brain, were deactivated (presumably

inhibited) in adults but did not change in activation in children.

"These results suggest that brain function during simple word reading differs across the various stages of development, independent of skill level," Schlaggar said.

His team is examining brain activity during this reading task in children who have had a stroke and is planning to expand the research to children with developmental dyslexia.

"By comparing patient populations to normal children and adults, we hope to better understand the developing brain and its disorders, particularly those that are related to language," he said.

## Children needed for language skills study

**H**ealthy children between 7-9 years old are needed for a study on the development of language skills.

Participants will be asked to complete three visits. During the first session, which will last about an hour, children will be evaluated by a pediatric neurologist and will also be allowed to practice lying in a brain scanner and performing the language tasks.

In the second visit, which will last about two hours, children will be asked to lie still in a brain scanner and perform language tasks while researchers take pictures of their brains activity using functional magnetic resonance imaging, a safe, noninvasive imaging technique.

The final session of the study will take about one hour and will include an IQ test and further language assessment.

Participants will be paid for their time and will receive a picture of their brain. Volunteers must be right-handed and native English speakers.

For more information, call 362-4154.

## Imaging damaged brain cells in mice provides clues into Alzheimer's disease

By GILA Z. RECKESS

**U**sing recently developed techniques for imaging individual cells in living animals, School of Medicine researchers have watched as Alzheimer's-like brain plaques damage mouse brain cells.

"We've been able to visualize damaged nerve connections in living animals and follow them over time in the same animal," said principal investigator David M. Holtzman, M.D. "Our next step is to determine whether such damage is reversible."

Holtzman is the Andrew B. and Gretchen P. Jones Professor of Neurology and head of the Department of Neurology, the Charlotte and Paul Hagemann Professor of Neurology and a professor of molecular biology and pharmacology. The first author of the study is Robert P. Brenda, Ph.D., research instructor in neurology.

In the 1990s, biologists discovered the protein that makes certain jellyfish luminescent also could be used to generate fluorescent cells in other species. By shining light on a living mouse engineered to contain these proteins,

researchers can watch cellular activity over time using a sophisticated multiphoton microscope.

Holtzman's team used this technique to examine the brains of mice that develop plaques similar to those characteristic of Alzheimer's disease. The mice also were engineered to have a subset of neurons express yellow fluorescent protein. Using this model, the scientists observed neurons becoming increasingly disrupted by brain plaques over time.

"We plan to use this system to further examine the process

of nerve cell damage and degeneration," Holtzman said.

"This line of research should provide new insight into the underlying processes involved in the development of Alzheimer's disease and help us determine whether the proteins that accumulate as brain plaques are a useful and feasible target for Alzheimer's therapies."

The study was conducted in collaboration with researchers at Massachusetts General Institute for Neurodegenerative Disorders, Harvard Medical School, the University of Pittsburgh and Eli Lilly and Co.



### Under the microscope

(From left) Steven M. Rothman, M.D., director of the Division of Pediatric Neurology, shows Christopher Alafi, Ph.D., and Ginger and Moshe Alafi a multiphoton microscope, which can image fluorescent cells in living animals over time, in the new Alafi Neuroimaging Laboratory in the Center for the Study of Nervous System Injury. The lab was established in part by a gift from the Alafi Family Foundation.



# University Events

## Teatro Hugo & Ines to perform at Edison

BY LIAM OTTEN

**P**uppetry? Not just for kids anymore.

Teatro Hugo & Ines — aka Hugo Suarez and Ines Pasic — create a world of unlimited, cartoon-like possibility, enlisting elements of puppetry, mime and dance to transform hands, feet, elbows, knees and bellybuttons into a colorful parade of extraordinary, oddball characters.

At 8 p.m. Jan. 16-17, the Edison Theatre OVATIONS! Series will present the Lima, Peru-based couple in *Short Stories*, a collection of whimsical vignettes illustrating the poetic moments of everyday life.

In addition, Edison Theatre will present an all-ages matinee performance as part of the ovations! for young people series at 11 a.m. Jan. 17. A special performance the morning of Jan. 16 for area students will be sponsored in partnership with Young Audiences of St. Louis.

In *Short Stories*, which *The Washington Post* describes as "a vaudeville on the body," Hugo & Ines employ a small stable of props to execute a series of bafflingly original metamorphoses.

A nose strapped to a foot becomes a thoughtful, imploring clown. Fingers crumple and

expand to form gnarled, Elmer Fudd- and Homer Simpson-like faces. A bit of lipstick, strategically applied to Pasic's bellybutton, creates a talkative society matron.

The *Los Angeles Times* called *Short Stories* an "unfailingly whimsical theatre-of-marvels," adding that Hugo & Ines are "both superbly in tune with a sense of magical transformation that makes their partnership one of the wonders of the age."

The *Chicago Reader* concurs, calling Teatro Hugo & Ines "delightful, all-ages entertainment. Not since Marcel Marceau in his heyday have I been so entranced by an evening of wordless entertainment."

Suarez, a native of Lima, and Pasic, born in Mostar, Bosnia-Herzegovina, first crossed paths in Italy, where Suarez was performing mime on the streets. Pasic, who had trained as a pianist at the Sarajevo Conservatory, began studying with him and quickly discovered that dexterity developed on the keyboard also proved useful in mastering pantomime.

The pair founded Teatro Hugo & Ines in 1986 and premiered their first production, *Return to Darkness*, the following year. They have since performed at major festivals throughout North and South America, Europe and Asia. Their

*Adventures of Ginocchio*, presented as part of the 1994 Jim Henson International Festival of Puppet Theater in New York, was one of the first productions to travel as part of the Henson Festival's national "On Tour" program.

*Short Stories* was presented to sold-out crowds at the 1998 and 2000 Henson festivals, with additional engagements at Jacob's Pillow Dance Festival in New York, the Festival of Art & Ideas in New Haven, Conn., the Kennedy Center in Washington, D.C., and Chicago's international Puppetopolis festival, among others. Suarez and Pasic have also filmed segments for the nationally broadcast PBS series *Between the Lions*.

Edison Theatre programs are supported by the Missouri Arts Council, a state agency, and the Regional Arts Commission, St. Louis.

For the Jan. 16-17 evening shows, tickets are \$28; \$23 for seniors, students and WUSTL faculty and staff; and \$14 for WUSTL students and children under 12. Tickets for the Jan. 17 matinee are \$7. Tickets are available at the Edison Theatre Box Office and through all MetroTix outlets.

For more information, call 935-6543.



Teatro Hugo & Ines — Hugo Suarez and Ines Pasic — will perform *Short Stories* at 8 p.m. Jan. 16-17 for the Edison Theatre OVATIONS! Series. The duo use elements of puppetry, mime and dance to transform various body parts into an array of memorable characters.

COURTESY PHOTO

## City of Twist • A Pore Way to Die • Eliot Trio • Art Sale

"University Events" lists a portion of the activities taking place at Washington University Dec. 12-Jan. 28. Visit the Web for expanded calendars for the Hilltop Campus ([calendar.wustl.edu](http://calendar.wustl.edu)) and the School of Medicine ([medschool.wustl.edu/calendars.html](http://medschool.wustl.edu/calendars.html)).

### Exhibits

#### Friday, Jan. 23

**5:30-8 p.m. Gallery of Art Opening Reception.** *American Art of the 1980s: Selections From the Broad Collections, American Art on Paper From 1960s to the Present and Painting America in the 19th Century.* Exhibits continue through April 18. Gallery of Art. 935-5423.

**History of Adult Education at Washington University, 1854-2004.** Through May 31. January Hall, Rm. 20. 935-4806.

**New Beginnings: The First Decade of the Washington University Medical Campus, 1915-1925.** Through May 31. Glaser Gallery, Becker Medical Library, 7th Fl. 362-4236.

### Lectures

#### Friday, Dec. 12

**8 a.m. Radiation Oncology Seminar.** Annual Carlos A. Perez Lectureship in Oncology. "Approaching the Limits in Radiation Dose Delivery." Herman D. Suit, Andres Soriano Distinguished Professor of radiation oncology, Harvard U. Barnes-Jewish Hosp. Bldg., Steinberg Amphitheater. 362-2866.

**9:15 a.m. Pediatric Grand Rounds.** "Recent Advances in the Treatment of Cystic Fibrosis." Robert Wilmott, IMMUNO Professor and chairman of pediatrics, Saint Louis U. School of Medicine. Clopton Aud., 4950 Children's Place. 454-6006.

**Noon. Cell Biology & Physiology Seminar.** "A Pore Way to Die. The BCL-2 Proteins." Paul Schlesinger, assoc. prof. of cell biology & physiology. McDonnell Medical Sciences Bldg., Rm. 426. 362-3964.

**12:05 p.m. The Left Forum Lecture.** "Can Lula Make a Difference in Brazil: An Informal Discussion." Pedro Cavalcanti, adjunct prof. of anthropology. Mallinckrodt Student Center, Upper Lvl., Lambert Lounge. 935-5387.

**1-6 p.m. Internal Medicine CME Course.** "Prevention and Treatment of Venous Thromboembolism: An Update." Co-sponsored by the Dept. of Pathology & Immunology. Cost: \$75. Eric P. Newman Education Center. To register: 362-6891.

**4 p.m. Anatomy & Neurobiology Seminar.** Rachel Wong, assoc. prof. of neurobiol-

gy. McDonnell Medical Sciences Bldg., Rm. 928. 362-7043.

**4:30 p.m. Medical Humanities & Social Sciences Meeting.** Ira Kodner, prof. of surgery. Busch Hall, Rm. 113, Cohen Lounge. 935-5340.

#### Monday, Dec. 15

**Noon. Molecular Biology & Pharmacology Seminar.** "Surviving Code Blue: Genes Controlling Hypoxic Cell Death in *C. elegans*." Michael Crowder, assoc. prof. of anesthesiology. South Bldg., Rm. 3907, Philip Needleman Library. 362-0183.

**4 p.m. Biology Seminar.** "Phototropins 1 and 2: Two Versatile Blue Light Receptors in Plants." Winslow Briggs, dept. of plant biology, Carnegie Inst. of Washington, Stanford U. Rebstock Hall, Rm. 322. 935-7915.

**4 p.m. Immunology Research Seminar Series.** "Naturally Arising CD25 CD4 Regulatory T Cells: Their Roles in Immunological Self-Tolerance and Negative Control of Immune Responses." Shimon Sakaguchi, dept. of experimental pathology, Kyoto U., Japan. Eric P. Newman Education Center. 362-2763.

#### Tuesday, Dec. 16

**Noon. Molecular Microbiology & Microbial Pathogenesis Seminar Series.** "How Bacteria Make Magnetite." Dianne K. Newman, asst. prof. of geobiology & environmental science, Calif. Inst. of Technology. Cori Aud., 4565 McKinley Ave. 935-8651.

#### Wednesday, Dec. 17

**8 a.m. Obstetrics & Gynecology Grand Rounds.** "Abdominal Wall Defects." Breck Collins, asst. prof. of obstetrics & gynecology. Clopton Aud., 4950 Children's Place. 362-1016.

#### Friday, Dec. 19

**9:15 a.m. Pediatric Grand Rounds.** "Gastroesophageal Reflux: Why Are We Still Talking About It?" Robert Rothbaum, clinical dir. of pediatric gastroenterology, St. Louis Children's Hosp. Clopton Aud., 4950 Children's Place. 454-6006.

**Noon. Cell Biology & Physiology Seminar.** "On the Importance of Being Unfolded *in Vivo*." Rohit V. Pappu, asst. prof. of biomedical engineering and computational biology. McDonnell Medical Sciences Bldg., Rm. 426. 362-6950.

**4 p.m. Neuroscience Seminar.** Bruce McNaughton, prof. of psychology, U. of Ariz. McDonnell Medical Sciences Bldg., Rm. 928. 362-7043.

#### Wednesday, Jan. 7

**11:30 a.m.-1 p.m. University College Brown Bag Seminar.** Cori Aud., 4565 McKinley Ave. 935-6700.

#### Tuesday, Jan. 13

**11:30 a.m.-1 p.m. University College Brown Bag Seminar.** January Hall, Rm. 30. 935-6700.

#### Thursday, Jan. 15

**4 p.m. Ophthalmology & Visual Sciences Seminar.** "Who Should We Treat for Ocular Hypertension? An Economic Evaluation From the Ocular Hypertension Treatment Study." Steven Kymes, research instructor in ophthalmology & visual sciences. Barnes-Jewish Hosp. Bldg., East Pavilion Aud. 362-1006.

#### Saturday, Jan. 17

**7:30 a.m.-4:30 p.m. ASH CME Course.** "ASH 2003 Presentations Review." Cost: \$35. The Ritz-Carlton St. Louis, 100 Carondelet Plaza. To register: 362-6891.

**9 a.m.-4:30 p.m. Program in Physical Therapy MSB Course.** "Diagnosis and Treatment of Movement Impairment Syndromes." (Also 8 a.m.-4:30 p.m. Jan. 18.) Cost: \$375. 4444 Forest Park Ave. Register by Jan. 2: 286-1400.

#### Wednesday, Jan. 21

**11 a.m. Public Interest Law Speakers Series.** Black Law Students Association Martin Luther King Jr. Commemorative Speaker. "From Brown to Grutter: The Legal Struggle for Racial Equality." Theodore M. Shaw, assoc. dir.-counsel, NAACP Legal Defense and Educational Fund Inc. Anheuser-Busch Hall. 935-4958.

#### Thursday, Jan. 22

**12:10-12:50 p.m. Wellness Connection Presentation.** "Workstation Ergonomics." Paul Landgraf, safety coordinator. Mallinckrodt Student Center, Upper Lvl., Lambert Lounge. 935-5990.

**4 p.m. Ophthalmology & Visual Sciences Seminars.** "A Retinal Mechanism for Instantaneous Color Constancy." Maarten Kamermans, Netherlands Ophthalmic Research Inst. Maternity Bldg., Rm. 725. 362-1006.

#### Wednesday, Jan. 28

**11 a.m. Public Interest Law Speakers Series.** Webster Society Annual Speaker. "Issues of Justice Relating to American Indian Tribal Government." Susan M. Williams, board member, American Bar Assoc. Water Resources Committee and American Indian Resources Inst. Anheuser-Busch Hall. 935-4958.

### Music

#### Friday, Dec. 12

**8 p.m. Washington University Opera.** *The Village Singer.* Written by Stephen Paulus.

Jolly Stewart, dir. (Also 8 p.m. Dec. 13.) Umrath Hall Lounge. 935-4841.

#### Saturday, Dec. 13

**4 p.m. Concert.** Washington University Chorus. Eric Anthony, dir. Graham Chapel. 935-4841.

#### Sunday, Dec. 14

**3 p.m. Messiah.** Singalong. John Stewart, dir. Musical scores provided. Graham Chapel. 935-4841.

#### Saturday, Jan. 24

**8 p.m. Concert.** The Eliot Trio. Cost: \$15; \$10 for seniors, students, WUSTL faculty & staff; \$5 for WUSTL students. Steinberg Hall Aud. 935-6543.

### On Stage

#### Friday, Jan. 16

**8 p.m. OVATIONS! *Short Stories*.** Teatro Hugo & Ines. (Also 8 p.m. Jan. 17.) Cost: \$28; \$23 for seniors, students, WUSTL faculty & staff; \$14 for WUSTL students and children 12 and under. Edison Theatre. 935-6543.

#### Saturday, Jan. 17

**11 a.m. ovations! for young people.** Teatro Hugo & Ines. Cost: \$7. Edison Theatre. 935-6543.

#### Friday, Jan. 23

**8 p.m. OVATIONS! *City of Twist*.** Stephen Petronio Company. (Also 8 p.m. Jan. 24 and 2 p.m. Jan. 25.) Cost: \$28; \$23 for seniors, students, WUSTL faculty & staff; \$14 for WUSTL students and children 12 and under. Edison Theatre. 935-6543.

### Sports

#### Saturday, Dec. 13

**3 p.m. Men's Basketball vs. Greenville College.** Athletic Complex. 935-4705.

#### Saturday, Dec. 20

**1 p.m. Women's Basketball vs. Fontbonne University.** Athletic Complex. 935-4705.

**3 p.m. Men's Basketball vs. Fontbonne University.** Athletic Complex. 935-4705.

#### Saturday, Jan. 10

**6 p.m. Women's Basketball vs. University of Chicago.** Athletic Complex. 935-4705.

**8 p.m. Men's Basketball vs. University of Chicago.** Athletic Complex. 935-4705.

#### Friday, Jan. 16

**6 p.m. Women's Basketball vs. Emory University.** Athletic Complex. 935-4705.

**8 p.m. Men's Basketball vs. Emory University.** Athletic Complex. 935-4705.

#### Saturday, Jan. 17

**1 p.m. Men's Swimming and Diving vs. Washburn College.** Athletic Complex. 935-4705.

#### Sunday, Jan. 18

**1 p.m. Men's Basketball vs. Case Western Reserve.** Athletic Complex. 935-4705.

**3 p.m. Women's Basketball vs. Case Western Reserve.** Athletic Complex. 935-4705.

#### Friday, Jan. 23

**6 p.m. Men's and Women's Swimming and Diving.** WU Invitational. (Also 6 p.m. Jan. 24.) Athletic Complex. 935-4705.

### And more...

#### Sunday, Dec. 14

**11 a.m.-6 p.m. Art Sale.** WUSTL School of Art's Island Press print shop works. Bixby Hall. 935-6571.

#### Monday, Jan. 26

**11:30 a.m.-4:30 p.m. Blood Drive.** (Also 11:30 a.m.-4:30 p.m. Jan. 27, Mallinckrodt Student Center, Lower Lvl., The Gargoyle; and 5-10 p.m. Jan. 28 & 29, Wohl Student Center, Friedman Lounge.) Mallinckrodt Student Center, Lower Lvl., The Gargoyle. 291-4741.

### How to submit 'University Events'

Submit "University Events" items to Genevieve Podleski of the *Record* staff via:

(1) **e-mail** — [recordcalendar@wustl.edu](mailto:recordcalendar@wustl.edu);

(2) **campus mail** — Campus Box 1070; or

(3) **fax** — 935-4259.

Deadline for submissions is noon on the Thursday eight days prior to the publication date.



# Volleyball

Season schedule was 'exceptionally tough'

— from Page 1

Bears in hitting percentage (.376) and was second in total blocks (149 for an average of 1.12 per game). She also was named to the NCAA Championship All-Tournament Team.

Brand hit .308 and posted team-highs of 36 solo blocks and 127 block assists (163 total blocks for an average of 1.19 per game). She also broke the single-match record for block assists with 13 against Ohio Northern University in the national quarterfinal. Her 127 block assists also were an individual single-season school record.

And the records kept on falling. The 2003 Bears set single-season school marks for kills (2,245), assists (2,004), block assists (547) and total blocks (404). Sophomore libero Nicole Hodgman became the first player in University history to surpass the 600-dig plateau in a single season, with 606.

Early in the season, the Bears fell to Elmhurst College, UW-Whitewater and Juniata College and were 10-3 by mid-September. However, after the 3-0 loss to Juniata Sept. 19, WUSTL would not lose another match.

"We challenged this team with an exceptionally tough schedule," Luenemann said. "We wanted them to learn to deal with adversity. As the season progressed, we continued to get better, as evidenced by our 28-match winning streak."

It's the fifth-longest string of wins in WUSTL history, and the number could increase as it carries over into next season.

"After our first practice, I remember going into my office and thinking we were going to win the national title," Luene-mann said. "We had all the ingre-



JOE ANGELES

**Senior Amy Brand skies high to play a ball during the Bears' NCAA Tournament title match Dec. 6 against New York University at the University of La Verne in California.**

dients for success, but we just had to get better each week.

"The key was the evolution of Kara Liefer as a premier setter. At the beginning of the year, Kara was a great athlete but an average setter, but she became a great setter by the end of the year."

Liefer, who replaced 2002 AVCA Division III National Player of the Year Rebecca Rotello, registered 1,629 assists (11.64 per game), the second-best single-season total in school history. Liefer's athletic ability made her a multiple threat in the Bears' system, as she posted 227 kills, 303 digs and 108 blocks.

She, too, made the NCAA Championship All-Tournament Team.

"Team chemistry is what helped us the most," Liefer said.

# Drug

'Definitely something that's worth exploring'

— from Page 1

function."

The study results were recently published in the online early edition of the *Proceedings of the National Academy of Sciences*.

Weilbaeher's research group has been studying connections between bone metastases and osteoclasts, cells in bone marrow that normally break down the materials in bone for routine replacement. Scientists suspected that osteoclasts aid tumors' destruction of bone because they can make acid, an essential ingredient for breaking into bone.

Suzanne Bakewell, Ph.D., a researcher in Weilbaeher's lab, led a series of experiments in mice that began with a test of the potential link between osteoclasts and bone metastases. After genetically disabling a protein important to osteoclasts, beta3 integrin, researchers injected the mice with melanoma tumor cells altered to produce a black pigment that makes them easy to spot.

"This is a very virulent cancer cell line," Weilbaeher said. "In 14 days, 75 (percent) to 80 percent of normal mice injected with these cells will have disseminated tumors throughout the body, including their bones and bone marrow."

In contrast, the experimental mice lacking the beta3 integrin developed tumors in other parts of the body but had no tumor cells in their bones or bone marrow.

Because beta3 integrin is known to have a prominent role

in other tissues of the body, the group then conducted an experiment involving bone marrow transplants from the genetically engineered mice into normal mice. The transplants protected normal mice from bone and bone marrow tumors, proving that the protective effects came from factors in the bone marrow.

However, the next experiment, conducted on mice genetically engineered with a defect very specific to osteoclasts, failed to produce equal levels of cancer protection. The tumors couldn't get into the bone itself, but they proliferated in the bone marrow.

"We were completely surprised by this," Weilbaeher said. "Blocking osteoclast function still seemed to be linked to less bone destruction by bone metastases, but that didn't tell us why these mice developed so many tumors in the bone marrow while mice with defective beta3 integrin didn't."

The group then turned to the next most likely cause of the protective effect: platelets, bits of membrane in the bloodstream that clump together to form blood clots. They are produced in bone marrow, and a form of beta3 integrin plays a prominent role in their activity.

Other researchers have linked platelets to the spread of lung tumors, and patients with metastatic cancer frequently have high platelet counts and excessive blood-clotting activity.

Weilbaeher's group treated experimental mice with high doses of ML464, which specifically blocks the form of beta3 integrin found on platelets. The team dosed the mice every 12 hours for the first two-and-a-half days of the 14-day experiment.

"We gave the mice a dose of ML464 that would block all

"We played like a family and pulled through when we needed to."

WUSTL cruised through conference play, posting a 12-0 mark in the round robin and championship to win its 15th straight UAA title. The Bears have won 16 of the 17 UAA titles since the conference began in 1987.

"The seniors were great role models on and off the court," Luenemann said. "Katie, Cindy and Amy set the tone for the intensity of our practices and matches. They demonstrated how Bears should play."

And with that the torch is passed to the likes of first-team AVCA All-American Colleen Winter, Jasmine Hunt and Ishi Ballew, each of who will be seniors in 2004.

Winter, an outside hitter known for her tremendous passing and versatility, led the Bears in kills (448) and total attacks (1,159) and was second in digs (567).

Ballew split time with sophomore Heidi Pfeiffer on the left side and averaged 1.43 kills per game after playing in the back row for much of the latter part of the year.

Pfeiffer averaged 2.47 kills per game and posted a team-high 12 kills in the national championship match. Hunt is one of the team's leaders after serving as co-captain with the three seniors.

Sophomore Megan Houck hit .335 playing in the middle behind Brand and Quinn, while freshman Amy Bommarito appeared in all but six games on the back row and averaged 2.26 digs per game.

"I can't wait for practice to begin next year," Luenemann said. "We return a talented group of players."

"In fact, during the last half of the season, the second team beat the first team about half of the time. That bodes well for the future of the Bears. We want to make a habit of this."

platelet aggregation," Weilbaeher said. "During this period, they were very susceptible to bleeding. No surgeon would have wanted to operate on them."

Injected cancer cells given to the experimental mice 30 minutes after the anti-clotting drug never made it into the bone or bone marrow, and were rarely able to find a foothold elsewhere and start building a tumor.

"The mice treated with the drug had much fewer metastases, and when they did get metastases they were smaller," Weilbaeher said. "There are other drugs that block platelet beta 3 integrin that are routinely used in patients who receive coronary artery stents, so this is definitely something that's worth exploring for potential clinical application."

Weilbaeher and others are working on several hypotheses for how platelets may help tumor cells metastasize. Most theories assume that platelets bind to tumor cells circulating in the bloodstream, and then begin to bind to other platelets, gathering tumor cells together. The platelets may hide tumor cells from the immune system, supply them with essential growth factors or just provide them with a ride.

"An aspirin a day is a very potent blocker of platelet function — it can impact survival in heart attack patients, because you get less clotting," Weilbaeher said. "And you don't need very much dosage to reduce cardiac risk."

"Here, for metastasis prevention, I can't tell you if we need a lot of this anti-platelet effect or a little, or whether other drugs like aspirin or ticlopidine would be effective. That hasn't been explored yet in this model, but it will be."

# Handel's Messiah singalong

By LIAM OTTEN

The Department of Music in Arts & Sciences will present its annual free singalong of George Frideric Handel's oratorio *Messiah* at 3 p.m. Dec. 14 in Graham Chapel.

John Stewart, director of vocal activities, will direct the program.

The performance, which lasts about an hour, will include the Christmas portion of *Messiah* as well as the "Hallelujah Chorus."

Those who wish to may sit in

special sections arranged according to voice type (soprano, alto, tenor, baritone), though those who choose not to sing are also welcome to attend. Copies of the music will be available for those who do not bring their own scores.

Soloists are Debra Hillabrand, soprano; Noel Prince, alto; Adam Cromer, tenor; Joseph Michels, tenor; and Scott Levin, bass.

The concert is free and open to the public. For more information, call 935-4841.

## Sports

### Sports teams all win tourney titles

The **swimming and diving team** won the DePauw University Invitational, as the women finished with 838 points, far ahead of second-place Wittenberg University (693). The men tallied 805 points, 160 ahead of second-place Wabash College (645).

Sophomore Tracey Hendrickson won the 500 freestyle, the 200 free and the 1,650 free. She also was a part of the Bears' 200 medley relay team, which broke the pool record by clocking a 1:51.01 in the event.

Sophomore Eric Triebe won the 100 breast, the 50 free and the 200 breast. His 50 free (21.23) and 200 breast (2:08.71) times were both good for NCAA "B" cuts.

The **women's basketball team** won the Saint Mary's College Roundball Classic title in Notre Dame, Ind. The No. 9 Bears defeated Calvin College, 79-40, Dec. 5. Sophomore Kelly Manning led the Bears with 16 points, seven rebounds, five assists and four steals.

Junior Hallie Hutchens led three Bears in double figures with 15 points off the bench as WUSTL posted a 68-45 win over Saint Mary's the next day.

### On the Web

For complete sports schedules and results, go to [bearsports.wustl.edu](http://bearsports.wustl.edu).

Hutchens, who was 6 of 9 from the field and 3 of 4 from the free-throw line, also pulled down seven rebounds and had two blocked shots in 21 minutes.

The **men's basketball team** captured the 20th Annual Lopata Classic with two victories at the Field House.

In the Dec. 6 championship game, sophomore Scott Stone led three Bears in double figures with a career-high 16 points as the Bears defeated Illinois Wesleyan University, 65-61. Stone scored 12 of his 16 points in the second half as he nailed a career-high five three-pointers in the win.

In the first-round game Dec. 5, the Bears used a 17-1 run early in the second half to post a 76-59 win over Claremont-Mudd Scripps Colleges. Senior Barry Bryant led the Bears with 15 points on 6-of-11 shooting from the field. Junior Rob Keller added 11 points, while Stone had 10 points and five assists.

Bryant was named the Robert L. Brynes Most Valuable Player of the classic after averaging 12.5 points, seven assists and four rebounds per game.

# Student

Only 'a starting point in my scientific career'

— from Page 1

contrast to the first two groups' experiments, in which a lithium sample "was brutally squashed between two ultra-hard diamonds to 200,000 atmospheres. In such primitive experiments, the sample is squashed flat, creating a multitude of defects," according to Schilling.

"Our phase diagram (the pressure dependence of the superconducting transition temperature) is well reproducible and differs markedly from that of the non-hydrostatic studies," Deemyad said. "We also studied the effect of magnetic field on the superconducting transition temperature of lithium in low field regime and under different pressures."

"Our study provides the first reliable information about the superconducting phase diagram of lithium."

The research could have important repercussions for those interested in understanding more about the core elements of the universe.

"Understanding the mechanism of superconductivity in lithium could be used to find other good candidates that may show superconductivity at higher temperatures — for example, metallic hydrogen," Deemyad said. "These kinds of studies help us expand our horizons in basic

science and may lead to very important technological advances in the future."

To be published as first author in *Physical Review Letters* is almost a logical progression for Deemyad, who has attended and presented her work at six conferences and has had four papers published, three of which she is first author.

"The fact that my work on lithium was approved from the critical point of view of *Physical Review Letters* referees was a good measure of what is necessary for doing an attractive and high-quality scientific work," said Deemyad, whose husband, Saveez Saffarian, is a research instructor in biochemistry and molecular biophysics in the School of Medicine. "Having our work published in a highly esteemed journal like *PRL* will provide us with an opportunity to attract the attention of other groups to our work."

Her research has immediate ramifications from a personal standpoint, too.

"Having a publication in a good journal, and especially as a first author, in the short term can have a positive impact on other people's judgment of my ability to do high quality scientific work," she said. "However, I should and do view this only as a starting point in my scientific career."

"For a successful scientific career, many good contributions are required. And I hope to reach that point some day in the future."



# Sam Fox Arts Center

## Newman Money Museum to display coins, currency

BY LIAM OTTEN

A major gift from Eric P. and Evelyn E. Newman will create a state-of-the-art numismatic museum as part of the Sam Fox Arts Center, Chancellor Mark S. Wrighton announced Dec. 10.

The Newman Money Museum will house exhibitions and audio-visual displays on a variety of topics relating to the history of coins and currency, as well as a numismatic library; curator's office; and workspace for visiting scholars.

In addition, researchers will have access to the Newmans' renowned private collection, one of the nation's strongest in the areas of U.S. and Colonial America coinage and paper money.

A \$2 million gift from the Newmans will underwrite construction of the facility, which will occupy about 3,000 square feet on the ground floor of the Sam Fox Arts Center's new Museum Building, one of two structures being designed by Pritzker Prize-winning Japanese architect Fumihiko Maki.

"Eric Newman is among America's most distinguished numismatic scholars, virtually a legend in his field," Wrighton said. "Evelyn Newman has, with unmatched energy and innovation, helped pioneer many of our region's foremost artistic and cultural institutions."

"Their extraordinary generosity in establishing The Newman Money Museum at Washington University's Sam Fox Arts Center not only combines these abiding passions; it creates a unique scholarly and educational resource — and point of pride — for the entire St. Louis community."

Eric Newman — a 1932 graduate of the Massachusetts Institute of Technology, a 1935 law graduate of Washington University and president of the Harry Edison Foundation — began collecting coins more than eight decades ago, when his grandfather gave him an 1859 one-cent piece.

He has written scores of articles and several books on numismatic subjects, including such now-standard references as *The 1776 Continental Currency Coinage: Varieties of the Fugio Cent* (1952); *The Fantastic 1804 Dollar* (1962); *The Early Paper Money of America* (1967, now in its fourth edition); and *U.S. Coin Scales and Counterfeit Coin Detectors* (2000).

"Every piece of money is at some level a work of art, a daily necessity, an aesthetic experience

imbued with cultural, economic, political and fiduciary significance," Newman said. "Money is and has been history that you hold in your hand, a welcome and widely circulating medium through which governments honor individuals, commemorate events and express patriotic and societal values."

"It is, in short, the place where visual art and design meets a wide variety of academic disciplines, and thus is a perfect 'fit' for the new art museum at Washington University's Sam Fox Arts Center."

Evelyn Newman founded the Sophia M. Sachs Butterfly House and Education Center in Faust Park and many other original concepts for not-for-profit organizations.

"The Sam Fox Arts Center is like no other institution in the Midwest — or indeed, in the nation," she said. "It will offer a combination of scholarly research, cultural enlightenment, hands-on studio training and public outreach that is truly unique and inspiring. We are proud to be a part of it."

Over the years, the Newman family has supported University programs such as professorships, scholarship funds and other projects. In 1995, the family helped underwrite the Eric P. Newman Education Center at the Medical Campus, a state-of-the-art conference and education facility.

Mark S. Weil, Ph.D., the E. Desmond Lee Professor of Community Collaboration, is director of both the Sam Fox Arts Center and the Gallery of Art. He pointed out that The Newman Money Museum will complement the gallery's strong collection of 19th- and 20th-century American painting and sculpture and its Wulfling Collection of about 14,000 early Greek, Roman and Byzantine coins.

"This is a tremendous 'coup' for Washington University and for St. Louis," Weil said. "Eric and Evelyn have assembled a collection of amazing breadth and scholarship, truly a national resource."

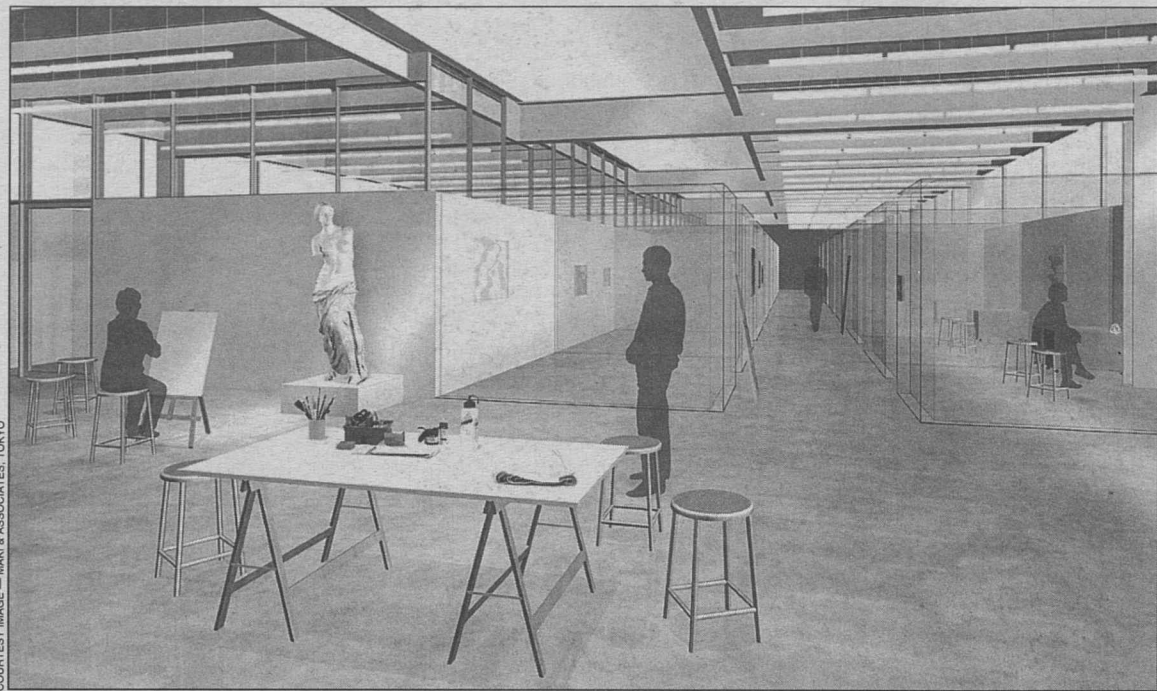
"We are indeed fortunate to be able to help ensure that it will remain in St. Louis as a cultural and educational resource for students, teachers, scholars and the general public."

When completed in 2006, the Museum Building will form the centerpiece of a five-building complex that will also include a new Maki-designed studio building for the School of Art and three renovated structures, Bixby, Givens and Steinberg halls.

In addition to The Newman Money Museum, the Museum Building will house a faculty/student gallery, a rotating exhibitions gallery and an area dedicated to the Gallery of Art's permanent collection.

In all, the proposed 65,000-gross-square-foot new art museum will contain 12,000 square feet of display space in addition to state-of-the-art storage facilities; the 13,000-square-foot Kenneth and Nancy Kranzberg Information Center; classroom and office space for the Department of Art History & Archaeology; and now The Newman Money Museum.

The Sam Fox Arts Center will break ground for two structures — the Museum Building (at top in the model at left) and Earl E. and Myrtle E. Walker Hall (at right in the model) — April 14. In the foreground is the Dula Foundation Central Courtyard.



The Wilpon Student Art Review Room (foreground) and painting studios (background) are seen in this rendering of the School of Art's new Earl E. and Myrtle E. Walker Hall.

## Art building to be named for Walkers

BY LIAM OTTEN

The Sam Fox Arts Center will dedicate a new School of Art studio building in honor of St. Louis community leaders Earl E. and Myrtle E. Walker, Chancellor Mark S. Wrighton announced Dec. 10.

Earl E. and Myrtle E. Walker Hall will be located at the southeastern end of the Hilltop Campus, immediately north of the School of Art's historic, Beaux Arts-era Bixby Hall. The three-story, approximately 38,000 gross-square-foot limestone-clad structure will house graduate studios; ceramics, sculpture, painting and metalworking studios; and the Nancy Spirtas Kranzberg Studio for the Illustrated Book.

"Washington University is honored to have one of our new buildings named for Earl and Myrtle Walker," Wrighton said. "They are exceptional people who have raised a wonderful family, founded and developed a successful company and contributed greatly to the welfare of others."

"The Walkers truly believe there is nothing more important than educating our young people and preparing them to become leaders in their professions. Washington University is proud to have the Walker name join other distinguished names associated with our campuses."

Earl and Myrtle Walker are chief executive officer and vice president, respectively, of Carr Lane Manufacturing Co., one of the world's foremost suppliers of tooling components, which they founded in 1952.

As a young woman, Myrtle Agnew Walker aspired to become an artist but, in 1938, had to turn down a scholarship to Northwestern University because the award covered tuition but not room and board. Despite that setback, her interest in the arts remained strong, and she went to work drawing blueprints for houses her father built in Jefferson City, Mo., and St. Louis County.

Over the past 30 years, Carr Lane Castings, the foundry the Walkers now operate in Shrewsbury, has earned a national reputation for fabricating bronze, brass, aluminum, stainless steel and painted steel artworks by sculptors from around the world.

In particular, the company has worked extensively with sculptors Ernest Trova, Don Wiegand and Harry Weber, notably on Wiegand's bust of Augustus "Gussie" Busch and on Weber's sculptures of Jack Buck, Ozzie Smith and Stan Musial, all at Busch Stadium.

Jeff Pike, dean of the School of Art, pointed out that Walker Hall

will allow programs currently housed at satellite facilities in University City and Clayton — including the sculpture, ceramics, photography and visual communications major areas — to return to the Hilltop Campus. This, he said, will promote a renewed sense of community within the school while also fostering greater interaction with other units of the Sam Fox Arts Center.

"Walker Hall will literally transform the School of Art," Pike said. "For the first time in decades, all art students and faculty will work and study alongside one another at a single, central location."

"It is an extraordinary moment, for which we are profoundly in the Walkers' debt."

The Walkers, both natives of Kirkwood, Mo., are generous supporters of civic, educational and charitable organizations throughout the region. These include the Kirkwood School District, The Magic House in Kirkwood, the Kirkwood-Webster YMCA, the YMCA of the Ozarks, Shriner's Hospital, St. Joseph Hospital, Trinity Lutheran Church of Kirkwood and the Girl Scout Council of Greater St. Louis.

In 1989, they co-founded the Walker Scottish Rite Clinic for Childhood Language Disorders, which provides professional treatment for speech and language-impaired children ages 2-6.

The couple founded Carr Lane Manufacturing when Earl, as a welder at McDonnell Aircraft

Co. in the early 1950s, realized there was a market for standard tools to hold airplane parts as they were fabricated. Carr Lane soon took off, and today the company and its many subsidiaries supply more than 9,700 tooling items to the aerospace, automotive, appliance and furniture industries.

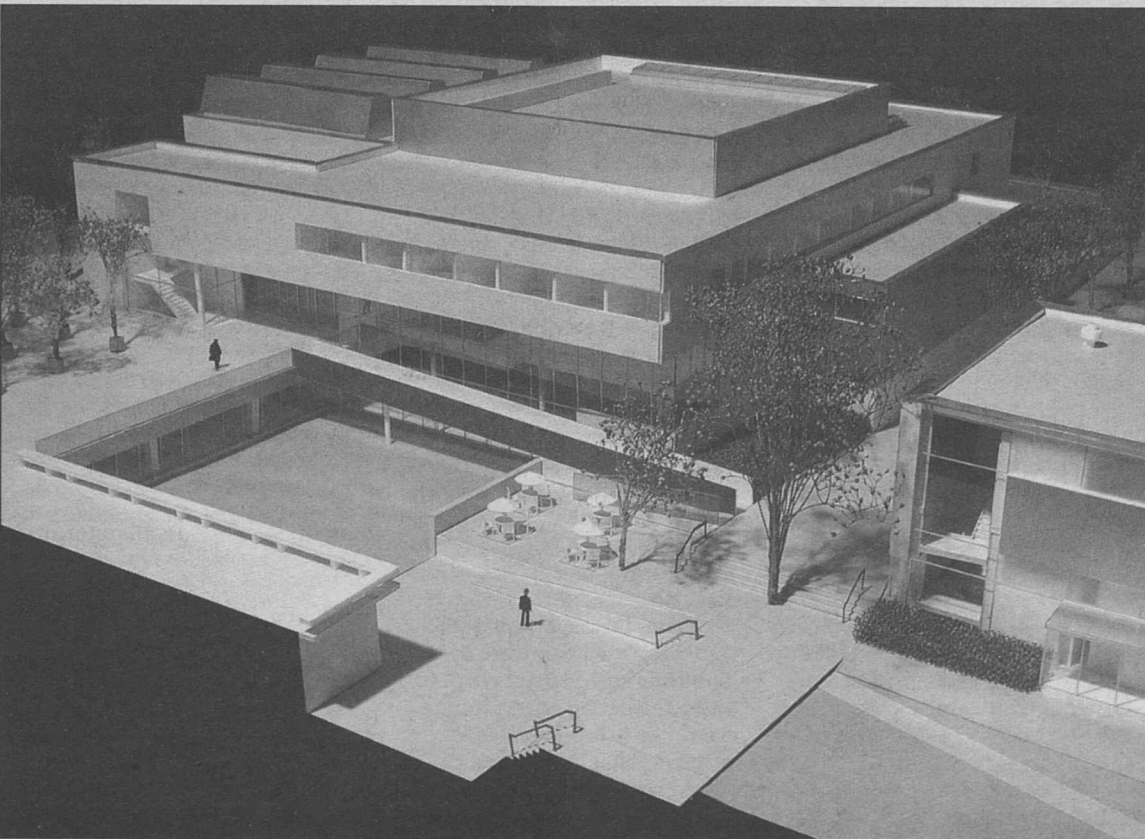
For more than 30 years, the Walkers have participated in the COE (cooperation education) Program with the Kirkwood, Maplewood-Richmond Heights and Webster Groves school districts.

In 1988, they created an endowed scholarship fund at the University of Texas, and in the early 1990s they created a Society of Manufacturing Engineers engineering scholarship.

In 2001, the Myrtle Agnew Walker Art Grant was established at Kirkwood High School. Most recently, the Walkers funded renovation and refurbishing of the Art Room at Logos High School in St. Louis.

At Washington University, the Walkers established the Earl E. and Myrtle E. Walker Scholarship in the School of Art in 2001. In 1999, they received the Robert S. Brookings Award for exemplifying the alliance between the University and its community.

In 1998, they established the Earl E. and Myrtle E. Walker Professorship in the School of Engineering & Applied Science, currently held by Kenneth L. Jerina, D.Sc. In 2002, Earl Walker received an honorary doctor of science degree.





## Notables

### Introducing new faculty members

The following are among the new faculty members at the University. Others will be introduced periodically in this space.

**Todd J. Stewart, M.D.**, joins the School of Medicine as assistant professor in the Departments of Neurological and Orthopedic Surgery, specializing in complex disorders of the spine and spinal cord, spinal instrumentation, as well as general neurosurgery.

Stewart received his undergraduate and medical degrees from the University of Washington. He completed a general surgery internship and neurosurgical residency at Washington University School of Medicine. He also completed a combined orthopedic and neurosurgical spine fellowship at the Cleveland Clinic Foundation.

His practice includes all aspects of spinal surgery, however he has particular interests in lumbar spondylolisthesis, minimally invasive surgery, degenerative lumbar disease and cervical spinal disorders. Stewart's interests in cervical spinal disorders include kyphosis, myelopathy, radiculopathy, stenosis, occipito-cervical and atlanto-axial

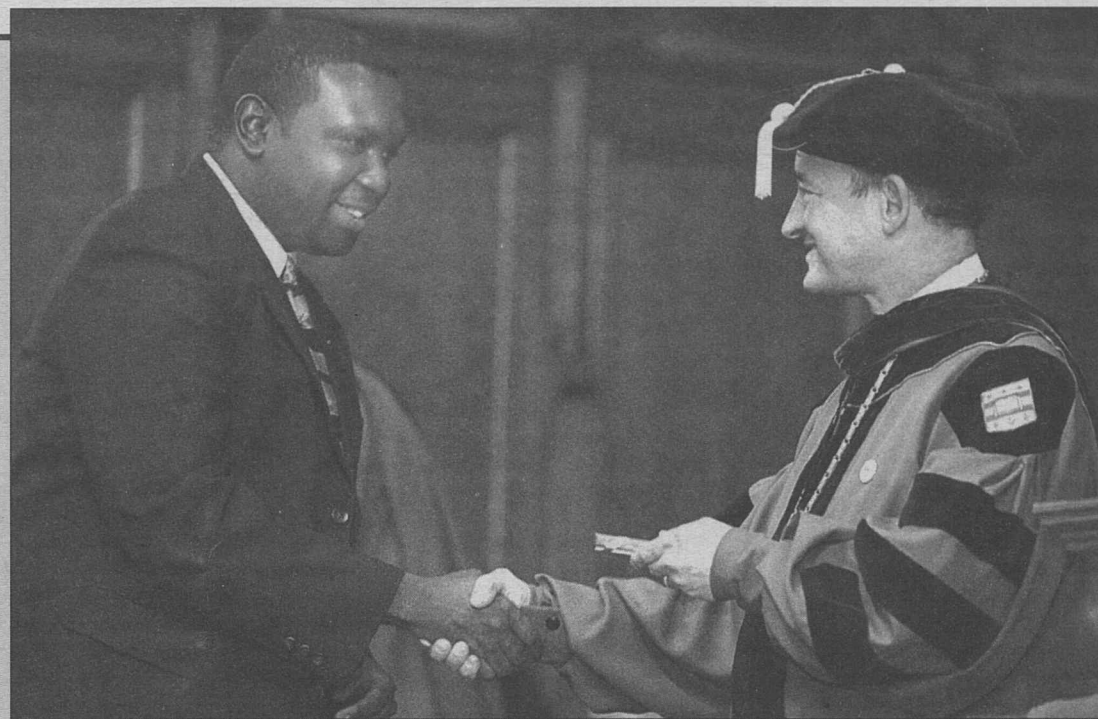
disorders.

Stewart will pursue scientific investigation of extracellular changes in spinal cord injury and spinal cord regeneration utilizing stem cells. He also has interest in 3-D computer modeling for spine education.

**Paul Santiago, M.D.**, joins the School of Medicine as assistant professor in the Department of Neurological Surgery, specializing in minimally invasive spinal surgery, complex disorders of the spine and spinal cord, spinal instrumentation and cranial and spinal injury.

Santiago is a Stanford University graduate and earned his medical degree from Yale University. He completed a general surgery internship and neurosurgical residency at the University of Washington. He also completed a spine fellowship at the University of Chicago Hospitals.

His areas of clinical interest include complex disorders of the spine and spinal cord. He has extensive training in minimally invasive spinal surgery, including thoracoscopic discectomies, spinal instrumentation, and head and spinal injury.



**A time to celebrate** Robert L. Mumphard, a master of telecommunications management degree candidate from the Sever Graduate School of Engineering & Applied Science, receives a University memento from Chancellor Mark S. Wrighton during the December Degree Candidate Recognition Ceremony Dec. 7 in Graham Chapel. Wrighton is wearing the University's new gown, which will be worn by faculty and all graduating students for the first time at the May 21 Commencement ceremony. John P. Dubinsky, president and chief executive officer of Westmoreland Associates LLC, chairman of BJC HealthCare and a University trustee and alumnus (A.B. '65; M.B.A. '67), delivered an address to the degree candidates. A reception for some 130 degree candidates and their families and friends who attended the ceremony followed in Mallinckrodt Student Center.

## Campus Watch

The following incidents were reported to University Police Dec. 3-9. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This information is provided as a public service to promote safety awareness and is available on the University Police Web site at police.wustl.edu.

### Dec. 4

8:45 a.m. — A chemical engineering lab technician reported an unknown person stole two hazardous materials signs that were hanging outside a fenced-in area on the north side of Urbauer Hall. The theft occurred between 7:30 a.m.-4 p.m. Dec. 3. Total loss is estimated at \$116.

12:56 p.m. — The house manager for the Sigma Alpha Epsilon fraternity reported the theft of a DVD player, VCR, Nintendo 64 video game system and a GameCube from the front living room area of the house. Fraternity members were uncertain as to when they last saw the equipment, but it was found missing at 2:15 p.m. Nov. 26. Total loss is estimated at \$640.

4:08 p.m. — A student reported that she last saw her student ID card at noon Dec. 3 when she put it in her pocket in the Center for Engineering Computing lab in Lopata Hall. At approximately 7 p.m., she discovered the card was missing.

### Dec. 9

7:57 a.m. — An unknown person stole a wallet from the top desk drawer of an office in Simon Hall. The door was open and the office had been left unattended.

*Additionally, University Police responded to three reports of larceny, two auto accidents, and one report each of fraud, property damage, tampering, alarm and vandalism.*

## Center

### Met challenge grant from Mabee Foundation

— from Page 1

the areas of early American and Colonial-era coins and paper notes.

Construction of Walker Hall and the Museum Building — which follow extensive, recently completed renovations to Bixby Hall and Givens Hall (the latter home to the School of Architecture) — will begin immediately following Commencement in May and is scheduled to last 18 months to 24 months.

New facilities will open in spring 2006, after which Steinberg Hall, current home to the Gallery of Art, art history department and Art & Architecture Library, will be renovated as additional studio space for art and architecture.

The total budget for renovations and new construction is approximately \$56.8 million. The University has thus far accumulated resources totaling \$46.8 mil-

lion in gifts and commitments, as well as in allocations.

In October, the Sam Fox Arts Center met a \$1 million challenge grant from the J.E. and L.E. Mabee Foundation of Tulsa, Okla. In order to earn the grant, which will support construction of the art museum, the University had one year to raise \$5.8 million for the project.

Additional support for the Sam Fox Arts Center includes a \$10 million gift from prominent St. Louis civic and philanthropic leader Sam Fox; and major commitments from Linda and Harvey Saligman; Kenneth and Nancy Kranzberg; and the children of Florence Steinberg and Richard K. Weil.

"Thanks to these and other wonderful gifts, Washington University will soon have a world-class arts facility and an architectural landmark for the entire St. Louis region," Wrighton said. "We are truly grateful to all who have supported the Sam Fox Arts Center."

For more information on the groundbreaking, call 935-9347.

## Trustees

— from Page 2

Sciences, and James E. McLeod, vice chancellor for students and dean of the College of Arts & Sciences.

In addition to an overview of athletics at the University, the report reflected upon recent research showing that academic standards for athletes in UAA universities is setting the national benchmark for academic quality.

In his remarks to the board, Wrighton recounted a number of recent University successes, including the appointment of two seniors, Bethany Ehlmann and Allison Gilmore, as Rhodes Scholars. The fifth and sixth WUSTL students to be named Rhodes Scholars in the past five years, Ehlmann and Gilmore will attend Oxford University beginning in fall 2004.

Wrighton also reported on the recent announcement that the University has been chosen to host a presidential debate Oct. 8 — the fourth consecutive presidential election in which the University has been selected as a debate site by the Commission on Presidential Debates.

Among other announcements, he noted that Charity Navigator, an independent charity evaluator of more than 2,500 not-for-profit organizations, ranked the University at the top of its list of the 50 best-rated academic institutions who are "consistently excellent charitable-giving colleges and universities in terms of financial efficiency."

Also announced by Wrighton was the April 14 groundbreaking for the Sam Fox Art Center's two

new buildings — an art museum and a School of Art studio facility.

Wrighton said internationally acclaimed artist Frank Stella will give the keynote address, and Pritzker Prize-winning Japanese architect Fumihiko Maki also will speak.

It was also announced that on May 7 there will be a rededication ceremony for Olin Library, in which a commissioned statue of George Washington will be placed on a plaza located on the south side of the refurbished and expanded library.

In his concluding comments, Wrighton thanked Sam Fox for his continuing successful leadership of not only the Campaign for Washington University, but also for his successful leadership of the St. Louis United Way campaign, in which the University realized its own goal of \$500,000 in charitable support from faculty and staff. Washington University is among the top educational institutions in the country in terms of giving to the United Way.

In other action, the trustees heard reports from the following committees: audit, development, educational policy, Hilltop finance, nominating and Alumni Board of Governors.

### About Harry J. Seigle

Harry Seigle, a native of Elgin, Ill., and a 1968 Washington University graduate, has devoted his entire career to both the development of his family-owned building supply business and public service.

He serves as president and chief executive officer of Seigle's Home and Building Centers Inc. and directs its sales and acquisitions. He has also served for more than 20 years as president of the

Seigle Family Foundation, which is devoted to supporting scholarships for deserving students and local not-for-profit organizations.

Seigle has twice been elected trustee and chairman of Elgin Community College and has served as chairman of the Illinois State Chamber of Commerce. In 1995, Republican Illinois Gov. Jim Edgar appointed him chairman of the Illinois Development Finance Authority.

After graduating from the University, he earned a law degree at Northwestern University. He pursued legal practice in Chicago before he joined his father in the operation of what was then Elgin Lumber Co., founded in 1881. He helped in growing the family-held business into Seigle's — Chicago's largest building material supplier to the residential construction industry.

With 13 locations and more than 700 employees, Seigle's manufactures trusses and doors.

Seigle is a life director and a "court of honor" member of the Home Builders Association of Greater Chicago and the Home Builders of Fox Valley. He has been a strong advocate for affordable housing.

In civic activities, Seigle serves as a director of Chicago's Step-penwolf and Victory Gardens theaters, the Chicagoland Chamber of Commerce; and as president and campaign chairman of the Elgin United Way, as well as the Community Crisis Center, a family shelter.

At Washington University, he serves on the Arts & Sciences National Council, as chairman of the University's regional cabinet and as vice chairman of the Regional Campaign Committee.

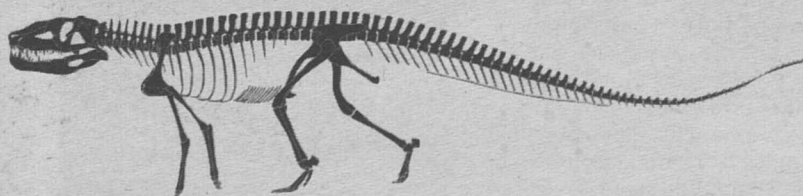
## Species

— from Page 2

saur that are members of the same genus varied from each other by just 2.2 percent.

Translation of the percentage into an actual number results in an average of just three skeletal differences out of the total 338 bones in the body. Amazingly, 58 percent of these differences occurred in the skull alone.

"This is a lot less variation than I'd expected," said Novak, whose adviser is Josh Smith, Ph.D., assistant professor of earth and planetary sciences. "As a con-



**Postosuchus** — "an alligator on stilts" — though appearing superficially to resemble a classic meat-eating dinosaur, was actually a member of the Rauisuchia. It thrived at a time when there were no hardwood trees, grass or flowers and dinosaurs were first coming onto the scene. (Courtesy image)

cept, this is not statistically perfect.

"But I think it's something taxonomists can consider if they are in doubt over classifying something. It's a kind of benchmark

with historical validity."

Novak was able to determine that the Ghost Ranch *Postosuchus* was indeed the same species, *Postosuchus kirkpatricki*, as the two specimens from Texas.



## Washington People

**J**eff Pike was about to meet the police when he made a terrible realization.

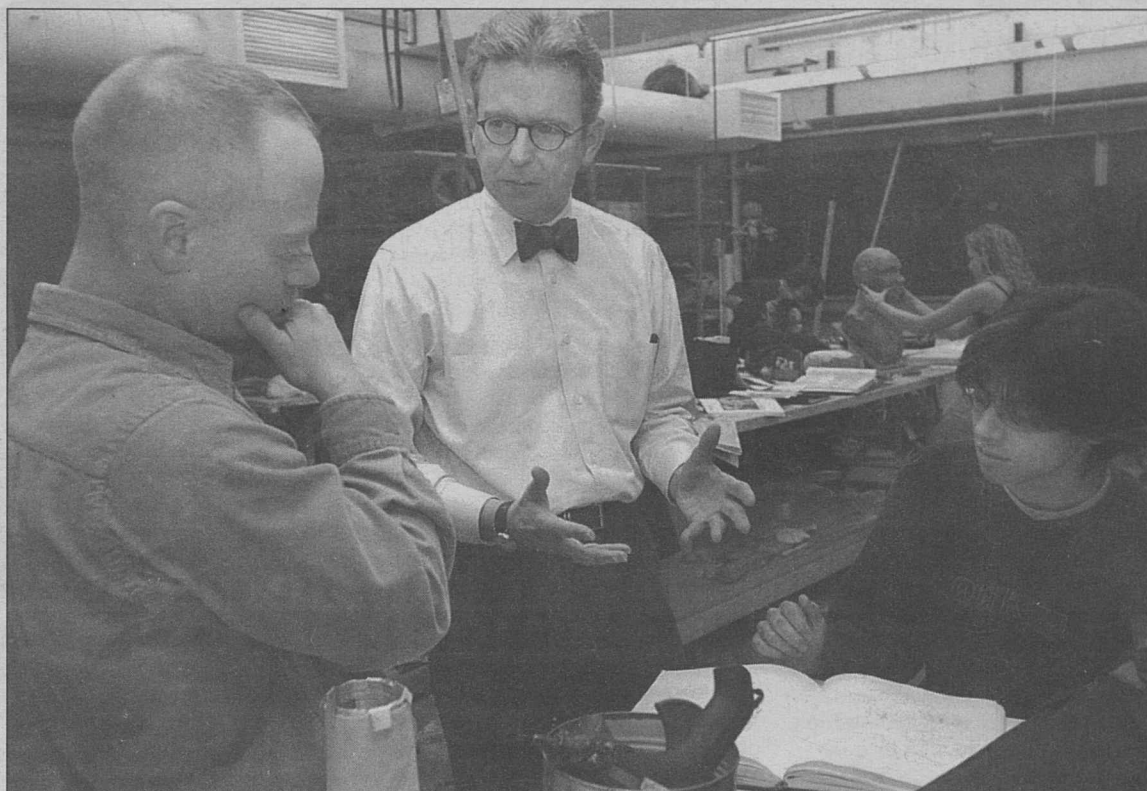
Pike, now the dean of the School of Art, was then a junior at the Kansas City Art Institute and had been assigned to the Kansas City Police Department for a class on community graphic design. A week prior, detectives had asked him to storyboard a series of television announcements touting public outreach programs.

"I said, 'OK, sure, whatever you want me to do,'" Pike recalls. "Then I went back to the art institute and asked my instructor, 'What's a storyboard?'"

The instructor introduced Pike to a friend who wrote copy for a downtown ad agency. A storyboard, he learned, was simply a cartoon-strip-like outline of what happens in a film or commercial.

The two roughed out a series of 30-second spots promoting citizen ride-alongs, home security checks, the availability of officers to speak with community groups and other initiatives.

However, as Pike prepared to



Jeff Pike (center), dean of the School of Art, talks shop with Army Nadler (left), assistant professor of art, and sophomore Juan Tejedor. In more than 20 years at the University, Pike has helped make the School of Art a national destination for students who are passionate about art and academics.

# Transforming the culture

Jeff Pike leads changes, from curriculum to construction, in the School of Art

BY LIAM OTTEN

present the campaign to police officials, he realized he'd forgotten one critical element: a title.

"On the bus ride over, I took out a piece of paper and sketched 'COPS: Community Oriented Police Services,'" Pike recalls with a slight smile. "And they said, 'Great, we love it, we've got money to do this. Can you film them?' And I said, 'OK, sure ...'"

"Jeff Pike knows how to stay calm in a crisis," says Associate Dean Sarah Spurr, a friend and colleague of more than 20 years.

Spurr, who has worked with Pike on projects for Anheuser-Busch, Southwestern Bell and others, says she's seen that quality at work in both the boardroom and the classroom.

"He's cool and logical and never loses his temper, whatever the situation," Spurr says.

"Plus, he's the only dean I know who can hit the high notes to Roy Orbison songs on a road trip."

### Thirst for knowledge

Pike was born in the small town of Oxford (population 448), Wis., and raised in nearby Fond du Lac (population 37,757), where his father worked for a life insurance company. Pike credits his early interest in art to his mother and his maternal grandfather, who was a linesman at Wisconsin Power and Light and a dedicated amateur draftsman.

"He took it seriously and really got pretty good," Pike says. "When

I was little, he'd go hunting or fishing — he was a big outdoorsman — then sit down with me, draw whatever he'd caught and I would try to guess what it was."

In high school, Pike drew voraciously — landscapes, cartoons, meticulously researched scenes from American history — and won a number of statewide awards. In one competition, he took top prize in every category.

After graduation, Pike packed up his portfolio and set out for the Layton School of Art & Design in Milwaukee.

He was invigorated by college life, packing as many academic offerings as possible between rigorous studio courses. Fridays, for example, featured six hours of uninterrupted figure drawing and anatomy.

When management issues closed Layton at the end of his sophomore year, Pike was quickly recruited by the Kansas City Art Institute, one of the nation's top art schools.

Pike, who was most interested in narrative and figurative possibilities, enrolled in visual communications, yet he continued to pack his schedule with academic as well as studio courses. His work of the time reveals a certain questing spirit.

For example, after running through literally all of the institute's philosophical offerings, he began an independent study, illustrating existential texts by Nietzsche and others, with Hans Uffelmann, then the chair of philosophy at the University of Missouri-Kansas City.

For COPS, meanwhile, Pike formed what amounted to a small ad agency, recruiting student photo majors to handle filming and sound; a local news anchor to do voiceovers; and a cast of police and community actors. After months of work (and a series of technical and budgetary challenges) the group completed four spots that aired in Kansas City.

### Time for changes

In 1978, Pike had just earned a master's degree from Syracuse University when he was offered an opportunity to begin an advertising program at Cazenovia College in New York. Soon he was teaching four or five days a week — advertising design, typography, drawing, two-dimensional design, a survey of modern art

— and even ordering and pricing supplies for the bookstore.

After three years, Pike moved to the Swain School of Design in New Bedford, Mass., then to the prestigious Philadelphia College of Art.

While Pike was in Philadelphia, Roger DesRosiers, dean of art at Washington University, began a yearlong recruitment effort, and in 1983 Pike arrived in St. Louis.

It is no exaggeration to say that, at the time, the School of Art was somewhat scattered. Painting, graphic communication, fashion and core programs were located in Bixby Hall; photography was in the basement of Busch Hall; sculpture and graduate studios were at Tyson Research Center; ceramics was in Quonset huts near the Athletic Complex; and printmaking was in a storefront off Delmar Boulevard.

Graphic communications exhibited similar sprawl on the curricular level, encompassing a wide range of advertising, illustration and graphic design offerings. Illustration was taught largely by local professionals on an adjunct basis.

"The School of Art boasts a long history of distinguished illustration alumni — Al Parker, Bernie Fuchs, Mike Peters — but at the time there was no apparent structured curriculum," explains Pike, who came to direct the illustration component. "(Professors) Gene Hoeffel, Bob Smith, Sarah Spurr and I began working to change that, developing more structured programs for all three concentrations and better coordinating common elements, such as typography."

At the same time, Pike — as he had throughout his teaching career — continued to operate a busy design practice, working with major advertising agencies and clients, including D'Arcy Masius Benton & Bowles, Monsanto, Anheuser-Busch, Ralston Purina, SSM Health Care-Cardinal Glennon Children's Hospital and Southwestern Bell Yellow Pages.

### Curricular bridges

Pike was named associate dean in 1993 and dean in 1999. In both capacities, he has worked to integrate a rigorous art curriculum with 21st-century technology and to build curricular bridges between the School of Art and the larger academic community.

"Jeff recognized very early on that, because of our setting as a

professional art school within a major research university, we could meet a need that almost nobody else was meeting," said Associate Dean of Art Georgia Binnington, who has worked with Pike for more than a decade.

"Our students are very passionate about art and design but also very intellectually curious about everything else academic life has to offer. Jeff has really helped to make a place where those interests interactions can happen."

The approach seems to resonate with young artists. About a third of undergraduate art majors are earning second degrees or minors from other areas of the University, while the School of Art's admissions acceptance yield has risen to a stellar 52 percent.

In the latest graduate and professional school rankings compiled by *U.S. News & World Report* magazine, the school rose five spots to tie for 21st in the nation.

At the same time, as a member of the Sam Fox Arts Center Executive Committee, Pike is deeply involved with plans for two new arts buildings — a 65,000-square-foot art museum and Earl E. and Myrtle E. Walker Hall, a 38,000-square-foot studio facility, both designed by Pritzker Prize-winning Japanese architect Fumihiko Maki. The latter of these, to be located immediately north of Bixby, will allow art school operations now in Clayton and University City to finally return to the Hilltop Campus.

"This will literally transform the culture of the school," Pike concludes. "For the first time in decades, students and faculty from all areas will be able to work alongside one another in a single, central location."

"At the same time, as part of the Sam Fox Arts Center, we will enjoy wider opportunities for collaboration with the rest of the University, as well as a more distinct national identity."

"This is truly a banner moment for the School of Art, and one that I'm privileged to be a part of."

### Jeff Pike

**Family:** Wife Michelle; daughter Siena, 7

**Education:** B.F.A., Kansas City Art Institute, 1976; M.F.A., Syracuse University, 1978

**Selected awards:** Administrator of the Year, Student Union (2001); Addy Award (1996); Gold Medal, University and College Designers Association (1985); Advertising Federation of America, Flair Award (1984)



A detail from one of Pike's illustrations to "Last Number of the Night," a short story by Bart Parker, a photographer and member of the School of Art National Council. The story, part of a collaborative book proposal with Chicago playwright Carson Becker, is based on the letters of Abelard and Heloise, the famous 12th-century French lovers.