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Recognizing excellence Robert E. Thach, Ph.D., Dean of the Graduate School of Arts and Sciences, honored 11 teaching assistants Friday, April 16, with the Dean's Awards for Teaching Excellence. The graduate students are (from the left, front row) David W. Weisrock and Gavin W. Chan; (middle row) Angela P. Gordon, Joseph S. Farthing, Thach, Christiane L. Auston and Fred R. Yaniga; (back row) Mark A. Cyr, Daniel C. Giedeman, Angela K. Bolte and David C. Earhart. The award recognizes "superb performance" in instructing undergraduates.

New skills Staffers earn state certification

BY CHRISTINE FARMER

Painter Willie Heffernan is teaching his coworkers in the Facilities Planning and Management Department a new and very useful set of skills — how to paint, wallpaper, refinish doors and install windows — all part of an innovative in-house training program.

Last week the students were tackling wallpaper — learning how to measure, go around corners, line up patterns and seal the seams. They proudly show visitors their projects from the 12-week course, everything from a faux marble finish on an old dresser to a refinished chair with ivy stenciled on the seat.

Improvements also have appeared in the shop in the Millbrook Building where the courses take place twice a week after work. The cold steel doors have been finished to look like wood, an office has been wallpapered and a feather was used to create a marble effect on another wall.

"I have a great time, and they are very anxious to learn," Heffernan said. "They put in a good effort. A lot of people in the office have said they want to take the class if I teach it again."

The 72-hour courses are offered through the Special School District, and students earn state certification upon completion.

Previous courses offered were electrical maintenance, plumbing and carpentry. After completing five courses, students earn a general maintenance certificate from the district.

The carpentry class built a three-wall room for the students in the painting and decorating class to practice on.

Kary Eckrich, a utilities employee who is taking the painting and decorating class, taught the plumbing class two years ago.

"This is a whole lot better than taking the courses somewhere else," he said. "We can name our start

need someone else who can troubleshoot the problem," Wiley said. "We're not trying to make them experts through these courses but give them multicraft skills so they can handle various situations."

Wiley said feedback from employees who took courses elsewhere indicated the locations and times were not convenient.

"Also, while the training was useful, it was not oriented to the needs of the University," he said. "There was a lot about new home building, but it didn't address a lot of on-the-job situations we have here."

So four years ago the University decided to start offering more streamlined courses on campus through the Special School District. Facilities pays for the students' class costs as long as students earn a C or better in the course, and the Special School District pays the instructors' fees.

Wiley added that the program also has been good for employee morale. The camaraderie among the eight-person painting class is hard to miss.

"It has provided relationship-building among the workers," he said.

Pat Steinmeyer, an administrative assistant in capital projects, started taking courses when she was building a new home.

"I took two courses at North County tech and three here," she said. "The ones at North County weren't as relevant to the campus. They were geared more towards new construction. We have a lot of fun and learn all kinds of new things. Two of my bosses are in this class with me."

The class also has inspired many students to take on home projects.

Steve "Stick" Hedgorth, a plumber, remodeled three rooms of his home, installed a dishwasher and two archways after taking the carpentry class.

"Once you do a project and it looks nice, you get the confidence to do more, and it's fun to learn new things," he said. "Sometimes I think the maintenance people don't get a lot of credit for what they know. They can do a lot of things."

Wiley added: "The courses make them more valuable employees, and if they can use the experience outside of work too — that's great."

"Once you do a project and it looks nice, you get the confidence to do more, and it's fun to learn new things."

STEVE HEDGORTH

time and walk right over here at 5 p.m. instead of heading to North or South County for a 6 p.m. course. The courses are also more tailored to the University's needs."

Bill Wiley, manager of maintenance operations, said the program was developed in an effort to increase the training opportunities for maintenance employees and give them knowledge in various areas.

"We might have seven to 10 people on one zone, and they might only have one person who is a plumber. If he is off sick you

Zwicker

Named to new Elkin humanities professorship

— from page 1

Steve Zwicker to this chair," said Miriam L. Bailin, Ph.D., associate professor and department chair. "Not only is Steve a most deserving recipient of the honor, but the chair bears the name of his, and our, distinguished colleague and friend, Stanley Elkin. We are grateful to the Danforth Foundation for honoring the contributions of both of these men."

Zwicker received a bachelor's degree in English from the University of California, Los Angeles, in 1965. He received a master's degree in 1966 and a doctorate in 1969, both from Brown University. He came to Washington University in 1969 as an assistant professor of English and in 1983 became a full professor and department chair, a position he held until 1988.

A scholar of 17th-century English literature, Zwicker is an expert on Restoration-era literature and politics. He is the author of "Lines of Authority: Politics and English Literary Culture, 1649-1689" (1993); "Politics and Language in Dryden's Poetry: The Arts of Disguise" (1984); and "Dryden's Political Poetry: The Typology of King and Nation" (1972). He has edited four volumes and pub-

lished more than two dozen essays in journals and volumes in the United States, England, Australia, Italy and Japan.

Zwicker has long been a leader in establishing interdisciplinary teaching and research programs in the humanities, at both the undergraduate and graduate levels, and has collaborated extensively with historians of early modern England. In 1973, Zwicker — together with Richard W. Davis, Ph.D., and Gerald N. Izenberg, Ph.D., both professors in the Department of History in Arts and Sciences — created the Literature and History Program in Arts and Sciences, in which he has co-taught seminars with Izenberg and with Derek M. Hirst, Ph.D., the William Eliot Smith Professor and chair of the history department.

Stanley Elkin was the author of 17 books, including 10 novels, two volumes of novellas, one book of short stories, one collection of essays and three published scripts. Elkin's novel "George Mills" won the 1982 National Book Critics Circle Award in the fiction category; he was elected a member of The American Academy of Arts and Letters that same year. His last novel, "Mrs. Ted Bliss," was published posthumously and won the 1995 National Book Critics Circle Award in the fiction category. Elkin often was described as a "stylistic virtuoso" and garnered a reputation for interlacing tragedy and comedy in stories that reflected the absurdities of life and the human condition.

Davis

New chair to foster diversity in St. Louis

— from page 1

a five-year study to identify important factors influencing decisions by black teenagers to stay in school and complete their high school education.

He also served as editor of a recently published 23-chapter textbook offering various perspectives on providing social services for black men and currently is co-authoring a book on issues facing black fathers.

"I cannot think of anyone who is more deserving of this honor than Larry Davis," said Shanti Khinduka, dean of the social work school. "We are grateful to Des Lee for providing us with such a distinguished honor in our school."

E. Desmond Lee was co-founder of the Lee-Rowan Manufacturing Co., a leading

manufacturer of closet accessories, plastic-coated shelves, hangers and scores of other associated products, which was sold in 1993 to the Newell Co. Lee established the company with fellow alumnus Jim Rowan in 1939. His contributions to the St. Louis community were recognized with the St. Louis Post-Dispatch Man of the Year Award in 1996. In 1997 he was awarded the National Outstanding Philanthropist Award by the National Society of Fund Raising Executives.

Lee, a graduate of the John M. Olin School of Business, was awarded the school's Distinguished Alumni Award in 1994. He also received the University's Distinguished Alumnus Award in 1997. Last year, he received an honorary degree from the University for his support and advocacy for higher education. Other beneficiaries of his generosity include a long list of educational and cultural institutions that encourage community collaboration and help the youth of St. Louis.

Genome

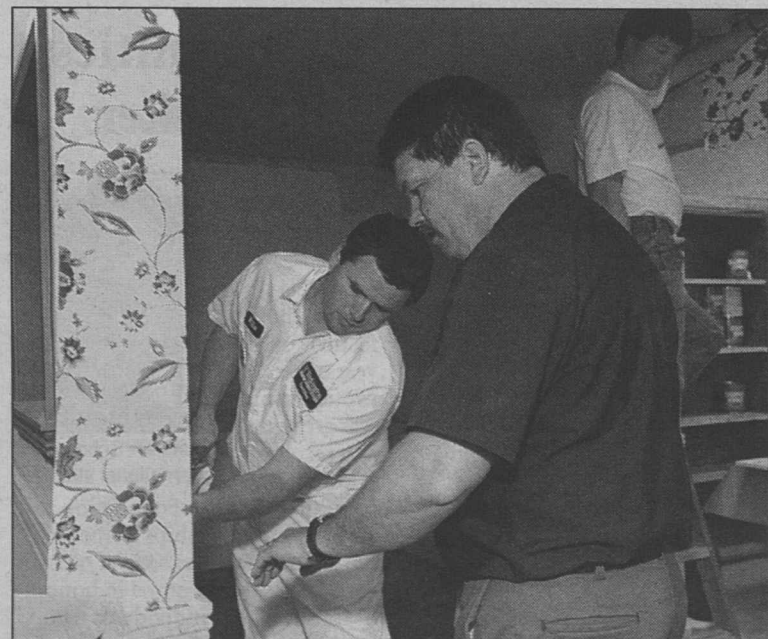
\$218.4 NIH grant given to project

— from page 1

U.K., School of Medicine scientists already have sequenced the genome of a roundworm that has 100 million genetic letters. Their preliminary work on human DNA aided the discovery of genes involved in breast cancer and deafness.

The five-year grant will enable University researchers to complete a working draft of up to one-third of the human genome by the spring of 2000. They will hone that version into a highly accurate sequence by or before 2003. The Sanger Centre will complete another third of the genome. Other laboratories in the United States and Europe will sequence the rest.

In 1998, the medical school ranked fourth in the nation in annual NIH funding, with \$178.5 million for research plus \$8.1 million for training.



Instructor Willie Heffernan (left) shows Steve "Stick" Hedgorth (center) how to wrap wallpaper around a corner while Frank Freeman papers another section of the room. All three are Facilities Planning and Management Department employees involved in an in-house training course.

Record

Washington University community news

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Medical School Update

Advanced imaging

Noninvasive method spots language regions in children's brains

By BARBRA RODRIGUEZ

If you think it's tough to coax a child to stop fidgeting while getting a haircut, imagine asking a youngster to be immobile for repeated five-minute periods — and to take language and number tests at the same time. That's what School of Medicine researchers were up against when they wanted to obtain brain images from 17 children and teenagers to learn about language development.

All but two children passed the squirm test, suggesting that an advanced imaging technique called functional magnetic resonance imaging (fMRI) can be used to study the developing brain. The findings also bring hope that

neurosurgeons can soon use fMRI as a noninvasive way to identify language regions in youngsters' brains that need to be avoided during brain surgery. And the findings suggest that children already use the same side of the brain to handle language that most adults use.

Collections of neurons in certain areas of the brain allow us to speak and understand language. These areas occur in both sides, or hemispheres, of the brain. But most adults rely primarily on areas in the middle of the left hemisphere for language. The same appeared to be true in the subjects studied by neuroradiologist Benjamin C. P. Lee, M.D., and his colleagues at the medical school. "We found that language was lateralized to the left hemisphere even in children as young as 7 years old," said Lee, an associate professor of pediatrics and of radiology.

He is lead author of the study published in a recent issue of the *Journal of Child Neurology*. E. Mark Haacke, Ph.D., professor of radiology, was principal investigator for the study.

Lee decided to evaluate fMRI in children after observing how scared and confused many of his patients with epilepsy became during the traditional test to evaluate language function. These children have a form of epilepsy resulting from lesions that disrupt electrical pathways in the brain.

Removing the lesions often reduces the severity of their seizures, but the Wada test, used for decades to identify language areas in the brain so they can be avoided during the surgery, can be traumatic. The test also is used prior to neurosurgery to remove brain tumors or to repair damaged blood vessels in the brain.

In the Wada test, doctors inject a drug called amobarbital (Amytal) into an artery in the patient's neck while they are awake, which temporarily numbs half their brain. If the person loses speech as a result, the neurosurgeon knows that the active language areas are located in the numbed hemisphere. Lee said even adults who understand

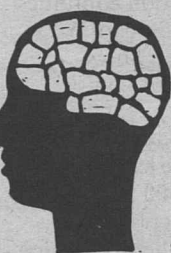
process. "We took a great deal of care talking to them before the study and explaining what would happen, sometimes even doing a trial run so they knew exactly what to expect," Lee said.

The investigators also made certain the children could spell and generate words in their heads without moving their mouths, which causes head movements that ruin images. The brain's language areas become activated during this thinking process as well as during speech.

For their efforts, the researchers were rewarded with useful fMRI images from 15 of the 17 youngsters. All the subjects were imaged as they spelled words such as "cat" and "dog." The words were picked to suit their

language skills by Royal Grueneich, Ph.D., assistant clinical professor of neurology.

The images from the trials revealed that the left hemisphere was the



The findings bring hope that neurosurgeons can soon use functional magnetic resonance imaging as a noninvasive way to identify language regions in youngsters' brains that need to be avoided during brain surgery.

what the hour-long test entails have trouble undergoing the procedure. Children and adults with epilepsy, who often have mental retardation, can become uncontrollable.

"Anything that can eventually replace that test should be done," Lee said.

Because fMRI requires no injections or loss of mental functions, researchers have been investigating it as a less intrusive way to evaluate brain function. The method detects rapid changes in active brain areas, unlike traditional magnetic resonance images that highlight anatomy. But fidgeting distorts fMRI images and makes them unusable for evaluating brain function, so few studies of children had been done. Lee and his colleagues used a variety of methods to convince healthy children ages 7 to 18 to lie still for fMRI imaging. Lee wanted to evaluate healthy children before trying the fMRI imaging on those with epilepsy.

The researchers rewarded the healthy children for time spent in the fMRI scanning machine with pizza parties and money and also strove to make them feel comfortable with the study

language center for 10 of the children who completed both trials successfully. Four children also favored the left side of the brain in one trial, and one child didn't show greater left hemisphere activity, or lateralization, in either trial. Lee said an inability of the latter children to focus appropriately or perform the language tasks well might have hampered the detection of lateralization.

Previous studies with the Wada test and other imaging methods had drawn similar conclusions about language activity in children's brains. But the images were created after data were pooled and averaged from images of many patients, which might mask differences between individuals. Even so, Lee was not completely surprised by the current study's findings. "In adults, most people handle language on one side of the brain, so why shouldn't young children, who speak using the same (mental) mechanism?"

But he was excited about using fMRI for future evaluations of children. And he already has begun comparing fMRI's use with the Wada test for patients with epilepsy.

Corbetta to study brain's control over what we see

Maurizio M. Corbetta, M.D., assistant professor of neurology, of radiology and of anatomy and neurobiology, has received a five-year \$1.7 million grant from the National Eye Institute. The grant will help Corbetta and colleagues determine how the brain controls what we notice when we look at a scene.

When we enter a gallery, for example, we typically spot the most colorful painting. But if we're looking for a familiar painting and know its location or colors and style, we are likely to see it first. In this case, our memory instructs the visual system of our brain to focus on the familiar painting.

Previous imaging studies, conducted with positron emission tomography (PET), have identified brain areas that spring into action when we look for specific objects in a scene. But it takes 40 seconds to make a PET image, and

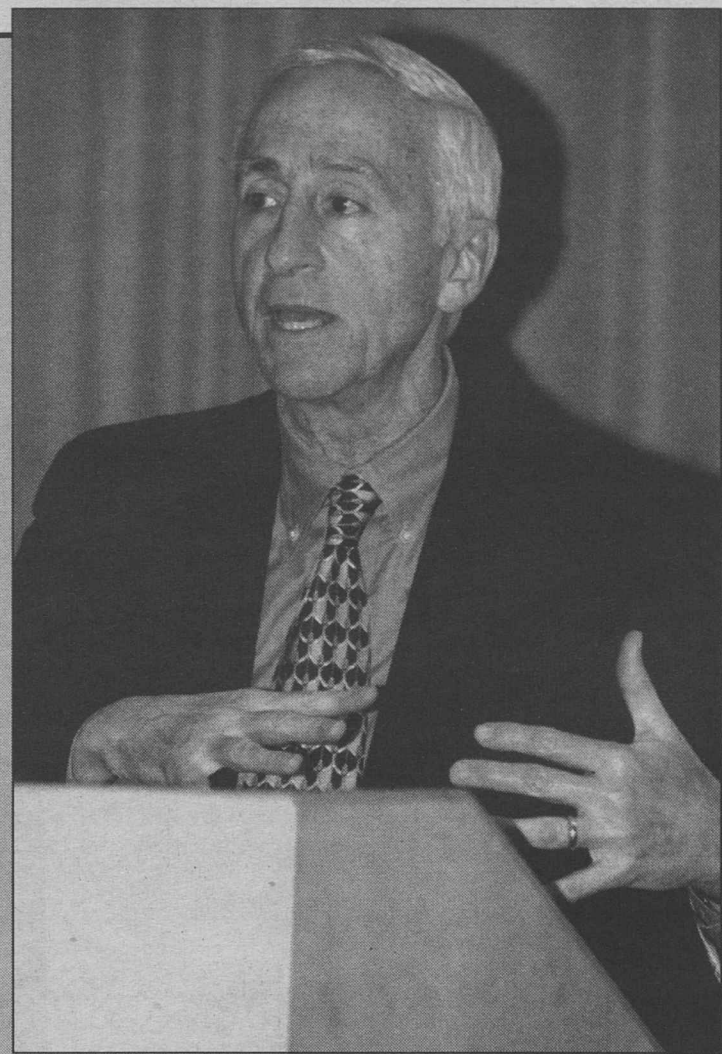
brain activity is recorded as a person repeats a task many times. "PET research has shown us which parts of the brain become active during a task but not the order in which they become active," Corbetta said.

The researchers now will obtain pictures of the brain at work with a new technique called functional magnetic resonance imaging (fMRI), which can generate an image every two to three seconds. Using new methods of analysis developed in collaboration with Gordon Shulman, Ph.D., staff scientist in neurology, and John Ollinger, D.Sc., assistant professor of biomedical computing and radiology, they will tease out events in the brain during each presentation of a scene. "Event-related fMRI will allow us to find out which members of the orchestra play first and who is conducting," Corbetta said. "Our main goal is to distinguish between memory and visual

signals and to determine which areas of the brain control visual perception."

Corbetta and colleagues also will compare the effects of different types of instructions — visual, as when one searches for a favorite brand of cereal at the grocery store, for example, or verbal, as when one primes oneself with the name of a needed report. Corbetta is especially interested in human attention because language provides an additional way of instructing the visual parts of the brain.

Although the project aims to explore normal brain functions, Corbetta wants to use the new methods to study functional recovery in people who have suffered brain damage. "These studies may shed light on visual neglect, which affects about 30 percent of people who have had strokes," he said. "This attentional deficit significantly reduces the ability to return to a productive life."



Celebrating innovation in education At a symposium marking the 25th anniversary of the Division of Biology and Biomedical Sciences, P. Roy Vagelos, M.D., founder and past director of the division, speaks at the Eric P. Newman Education Center on April 16. His lecture was titled "An Evolving Social and Scientific Experiment." Vagelos now is chairman of the board of Regeneron Pharmaceuticals Inc.

School of Medicine will help create genetic map

By LINDA SAGE

The School of Medicine has become a partner in a large-scale effort to map points along human DNA that vary between individuals. The map will accelerate the search for disease genes, aid in the development of diagnostic tests and provide a foundation for developing tailor-made medications.

The two-year \$45 million project involves five academic centers. It is being funded by the Wellcome Trust and 10 pharmaceutical companies, which have

formed the not-for-profit SNP Consortium. SNPs (pronounced "snips") or single nucleotide polymorphisms are the most common variations in the human genome.

John D. McPherson, Ph.D., assistant professor of genetics and assistant director of the Genome Sequencing Center, and Elaine R. Mardis, Ph.D., research assistant professor of genetics, are directing the medical school's portion of the project. "Single nucleotide polymorphisms will be a valuable tool for diagnosing genetic disease and determining the most appropriate treatments," McPherson said. "Through the consortium, this resource will be publicly available and remain readily accessible to corporate and academic researchers studying the basis for human disease."

The human genome — all the DNA in our chromosomes — contains the instructions for making a human being. These instructions are written in letters

called nucleotide bases, whose sequence determines the composition and function of proteins. There are about 3 billion nucleotide bases in the human genome, and 99.9 percent of them are the same for everyone. The remaining 0.1 percent — one in every 1,000 bases — account for some of the differences between people.

"It is becoming clearer as we learn more about the nature of the human genome that people are genetically quite heterogeneous," said Philip Needleman, Ph.D., president of Searle, a member of the consortium. "This heterogeneity has implications for our susceptibility to many diseases and very likely affects our responses to medicines as well."

Using samples from a diverse group of anonymous volunteers, the researchers will determine many of the points at which the DNA differs. During the

two-year project, the SNP Consortium intends to identify up to 300,000 and map at least 150,000 SNPs that will be useful in further studies.

Such studies might compare SNP patterns in people with a particular disease to those in unaffected people, for example. By identifying genetic variations seen only in the affected group, researchers will be able to home in on the gene or genes that cause that disease.

SNP patterns also might categorize patients into groups that would or would not respond to a particular medication. This would help pharmaceutical companies tailor new drugs to patients for whom they would be especially beneficial.

The map will accelerate the search for disease genes, aid in the development of diagnostic tests and provide a foundation for developing tailor-made medications.

University Events



A model displays a gown by Nada Tindall, a senior in the School of Art's Fashion Design Program, part of the school's 70th annual Fashion Show, which takes place at the Saint Louis Galleria May 2.

School of Art marks 70 years of fashion at Galleria May 2

By LIAM OTTEN

Wall Street was riding high in May of 1929, Babe Ruth was the Sultan of Swat and Anheuser-Busch was weathering prohibition with baker's yeast and non-alcoholic "Bevo." And at Washington University's School of Fine Arts, as it was then known, a group of intrepid design students and faculty staged the school's first annual Fashion Show.

A lot has changed in the last seven decades, and while Wall Street may have endured its ups and downs, the Fashion Show has continued to grow, introducing generation after generation of young designers to St. Louis catwalks. The tradition continues May 2, when the School of Art's 70th Annual Fashion Show descends on the Saint Louis Galleria.

The show — a fully choreographed, Paris-style extravaganza featuring close to 100 models — kicks off with a reception at 7:30 p.m. in the Galleria's Garden Court, located near the Lord & Taylor entrance. The main event gets under way at 8 p.m. and is followed by a catered reception for the designers and audience.

Tickets are \$45 per person for general seating. Tickets with special seating (and recognition in the program) range from \$75 to \$3,000, with all monies over \$45 going to support the University's Fashion Design Program. Tickets are available at the Edison Theatre Box Office, 935-6543, at the Galleria

Fashion Show

Where Saint Louis Galleria

When 7:30 p.m. May 2

Tickets \$45 for general seating, \$75-\$3,000 for special seating, available at the Edison Theatre Box Office, 935-6543, the Galleria Concierge Service Center and through Metrotix, 534-1111; a limited number available at the door

Concierge Service Center and through Metrotix, 534-1111. A limited number of tickets will be available at the door. For more information, call 935-9090.

"This is going to be something special," said Jeigh Singleton, associate professor of art and coordinator of the fashion design program. "Seventy years is a milestone, and we're going to celebrate it with all the ritual and ceremony that demands."

"This year's show will include our first retrospective," Singleton added. "We've asked some of our alums to pull out things they did as students. It should be a real spectacle, a clash of fashions and generations — a clash of classes."

The show also features dozens of outfits, ranging from dresses and ball gowns to sportswear and coats, by the program's eight seniors and seven juniors. As always, the show's highlights are the seniors' signature collections, in which each student creates a consistent, fully realized body of work.

"People have this notion of creativity as doing whatever you

want to do — they're wrong," Singleton explained. "Creativity is doing what you want to do while still meeting the needs of the project. Before working on their signature collections, students designed the clothing first, then figured out who it was for afterwards. Now, they figure out who the customer will be — their age, price range, size range, where they shop — and design an entire collection for them."

"A lot of careers have been launched at the show," Singleton added. "Students are often hired on the strength of their signature collections."

The Fashion Show is organized by a committee of volunteers and chaired by Susan Block, a 1976 graduate of the fashion program. The show includes professional models, students and members of the community. The fashions on display are selected by a jury made up of professional designers, University faculty and leaders in the retail clothing industry. The student designers will be recognized with a variety of scholarships, cash prizes and awards.

This year marks the fifth year of collaboration between the University and the Galleria. This year also marks the seventh year that the models' hair will be done by Dominic Bertani of the Dominic Michael Salon, which sponsors the Designer of the Year Award, to be presented to an outstanding student at the end of the evening. The models' makeup will be done by Talent Plus.

Runaway Technologies • Transfusion Medicine • Safe Food

"University Events" lists a portion of the activities taking place at Washington University through May 1. For a full listing of medical rounds and conferences, see the School of Medicine's website at medschool.wustl.edu/events/. For an expanded Hilltop Campus calendar, go to www.wustl.edu/thisweek/thisweek.html.

Films

Thursday, April 22

6 p.m. Chinese Film Series. "Shanghai Triad." Room 219 Ridgely Hall. 935-5156.

Friday, April 23

7 and 9:30 p.m. Filmboard Feature Series. "The Wedding Singer." (Also April 24, same times, and April 25, 7 p.m.) Cost: \$3 first visit; \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Midnight. Filmboard Midnight Series. "Fast Times at Ridgemont High." (Also April 24, same time, and April 25, 9:30 p.m.) Cost: \$3 first visit; \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Exhibitions

"African-American Artists and Writers in Europe (1919-1939)." Through April 23. Special Collections Exhibit, fifth floor Olin Library. 935-5495.

"19 Artists, 1999." Through April 24. Master of Fine Arts students exhibit their work. Ninth floor gallery, A.D. Brown Bldg., 1136 Washington Ave., St. Louis. 935-6500.

"Master of Fine Arts Thesis Exhibition." Through April 28. Second-year graduate students exhibit their work. Gallery of Art. 935-5490.

Lectures

Thursday, April 22

11:35 a.m. Systems science and mathematics seminar. "Supply Contracts." Chung-Lun Li, assoc. prof. of management science. Room 101 Cupples II Hall. 935-6001.

Noon. Genetics seminar. "Exploring the Mechanism and Significance of Protein N-Methyltransferase." Jeffrey I. Gordon, Alumni Professor and head, molecular biology and pharmacology dept. Room 823 Genetics Library. 362-7072.

1:10 p.m. School of Social Work Lecture Series. "Entitlement Reform: Political Consequences for Graying Baby Boomers." Fernando Torres-Gil, prof., School of Public Policy and Social Research, U. of Calif. Brown Hall Lounge. 935-4909.

4 p.m. Cancer Center Seminar Series. "Programmed Cell Death in *C. Elegans*." Michael O. Hengartner, assoc. investigator, Cold Spring Harbor Laboratory, N.Y. Third Floor Aud., St. Louis Children's Hospital. 747-0359.

4 p.m. Chemistry seminar. "Super Molecules from Coordination Chemistry: Clusters by Design." Ken Raymond, prof., U. of Calif., Berkeley. Room 311 McMillen Lab (coffee 3:40 p.m.). 935-6530.

4:30 p.m. School of Art slide lecture. Frank Oros, visual communications candidate. Steinberg Hall Aud. 935-7497 or 935-8402.



6:30 p.m. School of Architecture Forum for Contemporary Art lecture. Brad Choeppil, Allied Works Architects, Portland, Ore., will lecture on his recent work. Steinberg Hall Aud. 935-4636.

7 p.m. Earth Week lecture. "Runaway Technologies." Samuel Epstein, prof. of occupational and environmental medicine, U. of Ill., Chicago. Room 100 Brown Hall (book signing 6 p.m.). 771-8576.

Friday, April 23

9:15 a.m. Pediatric Grand Rounds. The 12th Ben Abelson Memorial Lecture. "Chromosomal Translocations in Rhabdomyosarcoma: From Cloning Breakpoints to Clinical Practice." Frederick G. Barr, assoc. prof. of pathology and laboratory medicine and of pathology in pediatrics, U. of Pa. School of Medicine. Clifton Aud., 4950 Children's Place. 454-6006.

Noon. Cell biology and physiology seminar. "Use of Styryl Dyes to Monitor Exocytosis, Endocytosis and Vesicle Trafficking." William J. Betz, prof. and chair of physiology and biophysics, U. of Colo. Medical School, Denver. Room 426 McDonnell Medical Sciences Bldg. 362-6960.

4 p.m. Pathology special seminar. "Developmental Regulation of V(D)J Recombination at the T Cell Receptor α/δ Locus." Mark S. Krangel, prof. of immunology, Duke U. Seminar Room B, Eric P. Newman Education Center. 362-0367.

4 p.m. Music Lecture Series. "C.P.E. Bach's Resurrection Oratorio and Enlightenment Religion." Richard Will, asst. prof. of musicology. Room 102 Music Classroom Bldg. 935-5574.

Saturday, April 24

8:30 a.m. Midwest AIDS Training and Education Center and AIDS clinical trials unit symposium. "Current Challenges in the Management of HIV: Update on Recent Advances." Cost: \$30; free to WU faculty and staff. Ritz-Carlton Hotel, 100 Carondelet Plaza, Clayton. To register, call 362-2418.

Monday, April 26

10 a.m. Center for Mental Health Services Research Brown Bag Seminar Series. "How to Get Your Hands on and Use

Publicly Available Alcohol and Drug Abuse Data Sets." Peter Doré, data base administrator. Room G38 Goldfarb Hall. 935-5687.

Noon-1 p.m. Molecular biology and pharmacology seminar. "Using Synthetic Organic Model Systems to Probe Biochemical Interactions." George Gokel, prof. of molecular biology and pharmacology. The Philip Needleman Library, Room 3907 South Bldg. 362-2725.

2:15 p.m. Condensed matter sciences seminar. "Molecular Wires and Molecular Electronics." Mark Ratner, prof. of chemistry, Northwestern U., Evanston, Ill. (coffee 2 p.m.). Room 241 Compton Hall. 935-6276.

4 p.m. Biology symposium. Spector Awards Undergraduate Research Symposium. "Characterization of Neuronal Adhesion to Agrin by an Integrin-Mediated Mechanism." Dion Dickman. "Ajuba, a Grb2-associating Novel LIM Protein Which Enhances MAP Kinase Activity in Fibroblasts, Promotes Meiotic Maturation of Xenopus oocytes in a Grb2 and Ras Dependent Manner." Phoebe Lin. Room 322 Rebstock Hall (reception 4:45 p.m., Room 309 Rebstock Hall). 935-6860.

4 p.m. Immunology Research Seminar Series. "Host Signaling Pathways Implicated in Intracellular Parasitism by Leishmania." Marvin A. Brennecke, prof. and head of molecular microbiology. Eric P. Newman Education Center. 362-2763.

6:30 p.m. School of Architecture Forum for Contemporary Art lecture. Peter Zumthor, architect, Architekturburo, Haldenstein, Switzerland, will lecture on his recent work. Steinberg Hall Aud. 935-4636.

Tuesday, April 27

Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series. "Purine Transport and Salvage in Protozoan Parasites." Buddy Ullman, prof. of biochemistry and molecular biology, Ore. Health Science U. Cori Aud., 4565 McKinley Ave. 362-1514.

4 p.m. Chemistry seminar. "Phenanthroline Coordination Chemistry: Copper(I) Complexes and Multi-Porphyrin Assemblies." Timothy B. Karpishin, asst. prof. of chemistry, U. of Calif., San Diego. Room 311 McMillen Lab (coffee 3:40 p.m.). 935-6530.

WILD invitation Event acquires festival flavor

Although the temptation is to question whether the invitation is a belated April Fool's joke, faculty and staff are cordially welcome at WILD, the campuswide party that traditionally has lived up to its name. The spring 1999 version is slated to begin at 1 p.m. Friday, April 23, in Brookings Quadrangle.

In an effort to nudge closer to its late-1970s roots as "Walk In, Lay Down Theatre" — a genteel picnic and outdoor movie theater gathering for the entire campus community — Team 31, the student organizers of WILD, are

promoting an all-inclusive festival atmosphere this spring.

Actually, the schedule is split into two slightly overlapping halves — festival activities from 1 p.m. to 6 p.m. and the main stage concert from 5 p.m. to 10 p.m. Festivities on the docket include:

- 1-4 p.m. — Live acoustical music;
- 2 p.m. — Games and rides, including an inflatable slide, a mountain climb and "human darts";
- 4-6 p.m. — Plenty of free food at the Taste of St. Louis.

The main stage concert will begin at 5 p.m. with Big Red and

the Snappy Dressers, a swing band comprised of University students. They will be followed on stage by Mike Kelly, an acoustical performer, and The Coup, a hip-hop band.

The headline group, They Might Be Giants, is the biggest "name act" that WILD has attracted in several years, according to Steve Malter, coordinator of programming and all-campus events.

"Team 31 has structured the event to appeal to the entire University community," Malter said.

Giving students a taste of public art

By LIAM OTTEN

So where does art come from, anyway? Creative passion? All-consuming vision? That much renowned, semi-mystical chaotic loam popularly deemed "inspiration"?

Well perhaps, but while such rare commodities might provide an artist with the germ of an idea, the work of cultivating that germ into full artistic fruition is longer, more arduous and complicated than one might think. And if the process of planning, refining, designing and constructing is difficult for the relatively autonomous studio artist, imagine the challenges awaiting the public artist, who must do all of the above while also securing financial backing and the support of public officials.

Such is the task posed by the School of Art's annual University City Sculpture Series, now in its 13th year. The program, sponsored by University City, the Regional Arts Commission and the University City Municipal Commission on Arts and Letters, requires students to meet with local officials, choose sites, design projects and submit proposals. If their proposals are selected for funding, the students then have the opportunity to install their works in the parks, courtyards, libraries, bus stops and other public spaces of Washington

University's neighbor to the north. "It's really a year-long process," said Denise Ward-Brown, associate professor in sculpture, who co-directs the program with Arny Nadler, lecturer in Art.

"It's a great opportunity for sculptors to get some professional experience before they graduate," she added. "Often when you see calls or competitions for public artists, one qualification is that they've had previous experience in public art. This is a really nice way for students to enter that arena."

Ward-Brown said that of the 16 proposals submitted this year, 12 were funded. The final works, which were unveiled April 11 and remain on view through mid-May, range from traditional sculpture to site-specific installations to community projects that seem part activism, part performance art. For one project, juniors Ann Roll and Leslie Silverstein made 3,000 pencils and went door to door, giving them away. For another project, junior Katie Britton created beanbag chairs for the public library's Children's Room. A third, by Tina Morano, involved youngsters at the Nathaniel Hawthorne Elementary School, who created fabric illustrations for the story "Tar Beach," which Morano then stitched into a quilt.

Ward-Brown said that one of her favorite projects is by junior

Katy Rose Krupnick, who — inspired by a recent trip to Costa Rica — wove brightly colored ribbon through the slats of the plain brown bus benches at Leland Avenue and Loop North.

"It's really quite beautiful. She's taken this drab, dark corner and completely livened it up," Ward-Brown said. "She's also a very friendly young lady. While she was working she'd be explaining the project to people actually waiting for buses. They all got a real kick out of the exchanges."

Ward-Brown said she knows of only one similar public art program, in Springfield, Ill., but noted that that program was founded by Washington University sculpture alumni. She added that her colleagues at other institutions often express envy for the training and experience such public/private collaboration provides.

"From the artist's point of view, there are several ways to look at public art," Ward-Brown concluded. "Artists can adapt their ideas to a site, a budget and a deadline. Many times the artist's concepts are inspired by the site itself — by its physical characteristics and/or its historical significance as well as issues of safety and public use of the area. These kinds of components then combine to create the sculpture. It's a challenge that gives rise to a whole new kind of creativity in our students."



Fifteen-year-old George Steinhart of Ladue examines "A Sun-Dial of Sorts," a sculpture by junior Kevin Dunphy, near the University City Post Office, at the corner of Delmar Boulevard and Trinity Avenue. The work is part of the School of Art's University City Sculpture Series, which remains on view through May 12.

Wednesday, April 28

6:30 a.m. Anesthesiology Grand Rounds. "The Myth of Homeostasis and the Tyranny of the Past." Timothy Buchman, prof. of surgery, anesthesiology and medicine. Wohl Hospital Bldg. Aud. 362-6978.

8 a.m. Obstetrics and Gynecology Grand Rounds. "Mildly Abnormal Pap Smears." Jamesina Dickson, chief resident of obstetrics and gynecology. Clopton Aud., 4950 Children's Place. 362-1016.

4 p.m. Biochemistry and molecular biophysics seminar. "Protein Folding and Degradation." Robert T. Sauer, biology dept., MIT. Cori Aud., 4565 McKinley. 362-0261.

Thursday, April 29

Noon. Genetics seminar. "Languages, Automata and Biological Sequences." David Searls, SmithKline Beecham Pharmaceuticals. Room 823 Genetics Library. 362-7072.

4 p.m. Biology seminar. "Dissecting Fission Yeast Centromere and Telomere Structure and Function Through Silencing." Robin Allshire, MRC Human Genetics Unit, Western General Hospital, Edinburgh, Scotland. Room 322 Rebstock Hall. 935-6860.

4 p.m. Cancer Center Seminar Series. "Gorlin Syndrome: Hereditary Predisposition to Basal Cell Carcinoma." Sherri Bale, chief, genetics studies section, National Institute of Arthritis and Musculoskeletal and Skin Diseases. Third Floor Aud., St. Louis Children's Hosp. 747-0359.

4 p.m. Chemistry seminar. "Random-Diblock Copolymers: Synthesis and Characterization." Steve D. Smith, Procter & Gamble. Room 311 McMillen Lab (refreshments 3:40 p.m.). 935-6530.

5 p.m. Music Lecture Series. "Latest Findings on Dvořák's 'New World' Symphony." Michael Beckerman, prof. of musicology, U. of Calif.-Santa Barbara. Room 102 Music Classroom Bldg. 935-4841.

Friday, April 30

9:15 a.m. Pediatric Grand Rounds. "Transfusion Medicine." Lawrence T. Goodnough, prof. of medicine and pathology. Clopton Aud., 4950 Children's Place. 454-6006.

10 a.m. Chemistry symposium. 1999 St. Louis Awards Symposium. "Functional Mimics of Superoxide Dismutase." Dennis P. Riley, adjunct chemistry prof. Room 458 Louderman Hall. For information on additional lectures, call 935-4269.

Noon. Cell biology and physiology seminar. "Insulin Action and Inaction." Richard A. Roth, prof. of pharmacology, Stanford U. School of Medicine. Room 426 McDonnell Medical Sciences Bldg. 362-6950.

1 p.m. Center for Mental Health Services Research Brown Bag Seminar Series. "Assessment of Mental Health Services." Sarah M. Horwitz, assoc. prof. of epidemiology and public health, Yale U. Room G38 Goldfarb Hall. 935-5687.

Sports

Sunday, April 25

1 p.m. Men's baseball team vs. McKendree College. Kelly Field. 935-5220.

Music

Thursday, April 22

8:30 p.m. Student recital. Graham Chapel. 935-4841.

Sunday, April 25

1 p.m. Piano recital. Students of Kathi Kurtzman, applied music instructor. Steinberg Hall Aud. 935-5574.

3 p.m. WU Wind Ensemble. Dan Presgrave, dir. Graham Chapel. 935-4841.

Tuesday, April 27

8 p.m. Jazz concert. WU Jazz Combos to perform. Steinberg Hall Aud. 935-5574.

Friday, April 30

8 p.m. WU Opera performance. "A Spring Evening of Opera." Scenes from "La Traviata" and "The Love for Three Oranges." Jolly Stewart, dir. (Also May 1, same time). Umrath Hall Lounge. 935-4841.

Performances

Friday, April 30

8 p.m. OVATIONS! Series performance.

"JAZZDANCE." Danny Buraczski, dancer and choreographer, and company. Cost: \$23; call for discounts. Edison Theatre. 935-6543.

...And more

Thursday, April 22

6:30 p.m. Writing Center workshop. "Writing Essay Exams." Room 109 Eads Hall. To register, call 935-4981.

Friday, April 23

8 a.m. Office of Continuing Medical Education seminar. "Oncology in the New Millennium." (Also April 24, same time). Eric P. Newman Education Center. To register, call 362-6891.

4 p.m. School of Architecture all-school meeting. Dean Cynthia Weese and faculty. Steinberg Hall Aud. 935-4636.

7 p.m. Earth Week panel discussion and workshop. "Safe Food, Food for All." Visiting environmental advocates. Room 149 McMillan Hall. 771-8576.

Saturday, April 24

10 a.m. Earth Week event. "Ogoni Cultural Celebration." Brookings Quadrangle. 771-8576.

11 a.m. Earth Week panel discussion and workshop. "Breaking the Stranglehold of Fossil Fuels." Visiting environmental advocates. Cupples I Hall. 771-8576.

Noon. Earth Week panel discussion. "Chip Mills, Lead Mining and Other Threats to Ozark Forests." Tom Kruzen, Sierra Club. Cupples I Hall. 771-8576.

1 p.m. Earth Week workshop. "Creating Alternative Media." Mark Quercus, editor, and Louise McKeel, television producer. Cupples I Hall. 771-8576.

2 p.m. Earth Week panel discussion. "Animal Rights." Judith Reitman, author, and Marshall Smith, St. Louis Animal Rights Team. Cupples I Hall. 771-8576.

3 p.m. Earth Week workshop. "Planning Earth Day 2000." Cupples I Hall. 771-8576.

4 p.m. Earth Week workshop. "Health Care for All: The Single Payer Approach." Activists Clara Faatz and Myrna Fichtebaum. Cupples I Hall. 771-8576.

Wednesday, April 28

7:30 p.m. Feminist reading group meeting. Judith Butler's "Excitable Speech." Hurst Lounge, Room 201 Duncker Hall. 935-5102.

Saturday, May 1

9 a.m. STD/HIV class lecture and practicum. "STD Update." (Also May 8 and 15, same time). Cost: \$65. U. of Mo.-St. Louis, 8001 Natural Bridge. To register, call 747-1522.

Baseball splits doubleheader

After splitting a doubleheader April 13 vs. Maryville University, the baseball team finds itself still one win shy of tying the school record for victories in a season. The Bears rallied for a 5-4 victory over the Saints in the opener before falling 10-9 in the nightcap. In the first game, junior outfielder Mark Bruggeman went two-for-four with a pair of runs scored and two doubles. Senior outfielder Ben Goldenhersh also slugged a pair of hits and drove in one run. In the second game, the Bears rallied with four runs in the bottom of the seventh inning, but left two runners stranded to end the game. Bruggeman was three-for-five with an RBI, and Goldenhersh knocked in three runs. Freshman second baseman

Mark Glover doubled to tie Cornell Foggie's 1986 team record for doubles in a season. Washington U. has four games remaining on the schedule with hopes of surpassing former coach Rick Larsen's team record for victories in a season (25-12 in 1985).

Women's tennis wins three of four

The women's tennis team won three of four matches at last weekend's Midwest Invitational in Madison, Wis., to improve to 16-3 on the year and strengthen its case for a bid to the NCAA national championships. WU knocked off St. Mary's College, 9-0, Friday, April 16, before dropping a 7-2 decision to Kenyon College, ranked No. 1 in the Midwest Region. The Bears, No. 5 in the Midwest, responded by beating St. Olaf College, 8-1, and

Wisconsin-Eau Claire, ranked No. 4 in the Midwest, 6-3 on Saturday, April 17, to finish the weekend 3-1. Freshman Katie Abrams was 4-0 at No. 1 singles and teamed with fellow freshman Kat Copiozo to go 3-1 at No. 2 doubles. Sophomore Nandini Chaturvedula was 3-1 at No. 2 singles, including the match-clincher against Wisconsin. She and No. 1 doubles partner Priya Vajani knocked off UW-Eau Claire's No. 1 doubles team, ranked fifth in the Midwest, by an 8-2 count.

Men's tennis drops two tough matches

The men's tennis team posted a 1-2 record last week against its toughest opponents of the season. The Bears defeated Quincy University (7-0) before falling to nationally ranked Kalamazoo College (4-3) and DePauw University (6-1)—both on the road. All three of the squad's

losses this season (15-3) have come to nationally ranked teams. Junior Arun Nanjappa, currently ranked No. 10 in the Midwest Region by the Intercollegiate Tennis Association (ITA), did not lose a set in three matches. Nanjappa opened the week with a 7-5, 6-1 victory over Quincy University's Sudjan Siljak. He then registered his biggest career singles win Saturday by defeating Kalamazoo College's Dan Harding—the top-ranked player in the Midwest Region and No. 7 in the nation—with a 6-2, 6-1 score. Nanjappa turned around the next day and defeated DePauw University's Yuri Klyachkin—No. 8 in the region and No. 36 in the nation—by a 6-3, 6-0 score.

Track and field second at McKendree Open

With their scheduled meet at Millikin University canceled due

to poor weather, the men's and women's outdoor track and field teams headed to the McKendree College Open, where both teams took second in the six-team field. Sophomore David Krantz picked up one of the men's two victories on the day, clearing a season-best 14 feet, eight inches in the pole vault. Freshman Aubrey Hairston had the other with a leap of 45 feet, four inches in the triple jump.

The women scored 193.5 points, second also to McKendree, while posting three wins. Senior Emily Richard qualified provisionally for next month's NCAA championships with a time of 10:13.73 while freshman Allison Schewe won the high jump (4 feet, 10 inches) and sophomore Julie Riley took the pole vault (10 feet, 8 inches).



April Welcome Alexandria Carroll of Washington, D.C., and Aaron Rosenstock of Summerville, N.J., build towers with straws and marshmallows at the Engineering Olympics, part of the annual Undergraduate Admissions Office's monthlong April Welcome program for prospective students.

Danforth

Retiring as chair of University Trustees

— from page 1

tion as exceptional as Washington University," Danforth said. "I have never stopped thinking of how fortunate I've been to know so many incredible people — students, faculty, staff, alumni, parents and the many friends who support us.

"It is also important for me to recognize those who have been so helpful and meaningful to me in my years at the University, most especially the kindness and unwavering support of my life partner, Ibby, and the many friends we have made over the decades here," Danforth said.

Danforth began his association with the University in 1951, serving residencies in medicine and pediatrics at Barnes and St. Louis Children's hospitals from then until 1957. At that time, he was named as an instructor at the School of Medicine. He was named assistant professor in 1960, associate professor in 1965 and

full professor in 1967 — a position he still holds. In 1965, he was appointed vice chancellor of medical affairs.

In 1971, Danforth became the University's 13th chancellor, succeeding the late Thomas H. Eliot. His nearly 25-year tenure was one of the longest among educational leaders in the nation and created an extraordinary legacy of success. During his tenure, 10 Nobel Prizes and two Pulitzer Prizes came to persons associated with the University. The number of faculty elected to the National Academy of Sciences doubled from 11 to 22, and the number of faculty serving as members of the Institute of Medicine rose to 17. The University's representation in the American Academy of Arts and Sciences climbed to 21.

Danforth retired as chancellor June 30, 1995.

A 1947 graduate of Princeton University, Danforth completed a medical degree at Harvard Medical School in 1951. He served in the U.S. Navy during World War II and as a Navy physician from 1952 to 1954.

Danforth married the former Elizabeth "Ibby" Gray in 1950. They have four grown children.

Honorary degrees Political leader, scientist, philanthropist to be honored

Commitment to community, breakthroughs in medicine and efforts in politics and education are among the attributes exemplified by prominent leaders who will deliver the commencement address and receive honorary degrees during Washington University's 138th Commencement May 14. The University also will bestow academic degrees on some 2,500 students during the ceremony, which begins at 8:30 a.m. in Brookings Quadrangle.

William H. Danforth, former chancellor and retiring chair of the Washington University Board of Trustees, will deliver the commencement address. In addition, philanthropist Alvin Goldfarb; Philip Needleman, Ph.D., president of G.D. Searle; and former Congresswoman Patricia Scott Schroeder will receive honorary degrees.

[Editor's Note: See separate story on page 1 about William H. Danforth.]

Alvin Goldfarb is the retired president of Worth Stores Corp., a St. Louis-based retailer of ladies' apparel, and the Alvin Goldfarb Foundation. Goldfarb earned a bachelor's degree in business administration from the University in 1937 and began a career in retailing that would take him to the top of Worth's. He and his family have been generous supporters of the University and many other charitable and religious organizations in the community.

His late wife, Jeannette Rudman Goldfarb, graduated from the University's George Warren Brown School of Social

Work in 1936 with a master of social work degree and went on to complete her fieldwork in St. Louis. The Goldfarbs had three children: a daughter, Jane, a 1963 graduate of Washington University's School of Business who lives in St. Louis; and two sons, James and Robert, both of New York City. He is a grandfather to four grandchildren.

Goldfarb's leadership skills and generosity have benefited the Jewish Foundation of St. Louis, where he has served as director and also as campaign chairman. He is also past chairman of the Israel Emergency Fund.

Goldfarb is a man of vision who has shown extraordinary generosity toward the University. He and his wife were founding sponsors of the Scholars in Business Program in the John M. Olin School of Business. The Alvin and Jeanette Goldfarb scholarship has been an important part of that program since 1981. The family also has supported a range of recent building projects on campus, including facilities at the John M. Olin School of Business, the Jeanette Goldfarb Plant Growth Facility and the Alvin Goldfarb Auditorium in James S. McDonnell Hall. The building that houses the St. Louis Hillel Center adjacent to the University was named the Alvin and Jeanette Goldfarb House in recognition of the Goldfarbs' support.

Alvin Goldfarb's support also enabled the George Warren Brown School of Social Work to construct a new building, Alvin Goldfarb Hall. Goldfarb's backing for the new building was espe-

cially critical to the project's success because the school's alumni, while doing key work in the St. Louis community and elsewhere, often do not have the financial means to support a building project of this magnitude.

In 1996, the School of Social Work recognized Goldfarb's many contributions by awarding him the Dean's Medal. In recognition of his key role in building the University's future as it enters the 21st century, he will receive an honorary doctorate in humanities.

Philip Needleman, Ph.D., chaired the School of Medicine's Department of Pharmacology from 1976 to 1989 and now is chief scientist at Monsanto Co. and president of G.D. Searle, Monsanto's pharmaceutical sector. As adjunct professor of molecular biology and pharmacology, he maintains close ties with the University, where he was elected Basic Science Teacher of the Year five times during his 22 years on the faculty.

Needleman made news last year when the Food and Drug Administration approved Celebrex™, a new type of arthritis drug — the COX-2 inhibitor — that he conceived at the medical school and developed at Monsanto. As well as being a leading expert on inflammation, he is recognized worldwide for his research on organic nitrates, his work on blood pressure regulation and the discovery of molecules that convey information from the heart to the kidneys.

Born in Brooklyn, N.Y., Needleman obtained both a bachelor's degree in pharmacy in 1960 and master's degree in pharmacology in 1962 from the Philadelphia College of Pharmacy and Science. He earned a doctorate in pharmacology from the University of Maryland Medical School two years later.

Needleman's first studies focused on the enzymatic breakdown of organic nitrates, and he continued this work after moving to Washington University School of Medicine in 1964. This early research revealed that nitroglycerin, which was taken by mouth for angina, is completely degraded by the liver before it can circulate around the body. As a result, patients now place nitroglycerin under the tongue, allowing it to enter the bloodstream directly.

Metabolites of arachidonic

acid then became a major focus of his work. He studied their roles in the kidney and heart and explored their contributions to inflammation and blood clotting. This led him to discover the first inhibitor of a platelet enzyme called thromboxan synthase. He also has studied arachidonic acid metabolites called prostaglandins, which perform a range of regulatory functions but are largely responsible for the pain of arthritis and other inflammatory conditions.

In 1989, Needleman's experiments predicted that a key enzyme in prostaglandin synthesis called COX (cyclooxygenase) exists in two other forms. Other scientists cloned the second enzyme, confirming that COX-1 synthesizes the prostaglandins involved in inflammation and tissue injury. In 1989, Needleman moved to Monsanto, where his group produced large amounts of COX-2 for study. They then synthesized and tested the compound that became Celebrex. By inhibiting COX-2 and not COX-1, Celebrex avoids the side effects associated with aspirin and other anti-inflammatory drugs.

Needleman was elected to the National Academy of Sciences in 1987 and to the Academy's Institute of Medicine in 1993. He received Washington University's Distinguished Faculty Award on Founders Day in 1987 and a Second Century Award in 1994.

In recognition of his contributions to science, health and medical education, he will receive an honorary doctorate in science.

Former Congresswoman **Patricia Scott Schroeder**, whose 24 years in office made her the longest-serving woman in the House of Representatives, is renowned for her outspoken, independent leadership in the Democratic Party. A champion of women and children's issues, Schroeder is recognized for her leadership in areas including foreign and military policy, educational opportunities and women's health.

Schroeder left Congress undefeated in 1996 and is currently serving as president and chief executive officer of the Association of American Publishers Inc. (AAP), the national trade organization of the U.S. book publishing industry. She had served 12 terms representing the First Congressional District of Colorado.

Schroeder is the author of two books, "Champions of the Great

American Family" and "24 years of House Work ... and the Place Is Still a Mess," an autobiography about "her struggle to find her place and a voice in the male-dominated world of politics."

Born in Portland, Ore., Schroeder graduated magna cum laude in 1961 with a bachelor's degree from the University of Minnesota. She went on to Harvard Law School as one of only 15 women in a class of more than 500 students. After earning a juris doctoris in 1964, she moved with her husband, James, to Denver, where she worked as a field attorney with the National Labor Relations Board and later went into private practice.

In 1972, she challenged the incumbent Republican for the First Congressional District, Rep. James McKeivitt. She ran on a platform opposing the Vietnam War, supporting environmental issues and challenging Colorado's bid for the Winter Olympics, arguing that the state could make better use of its tax dollars. She narrowly defeated McKeivitt and went on to become the first woman to serve on the House Armed Services Committee. She also served as dean of Congressional women and co-chair of the Congressional Caucus on Women's Issues, which she helped found.

As chair of the House Select Committee on Children, Youth and Families from 1991-93, Schroeder saw the Family and Medical Leave Act and the National Institutes of Health Revitalization Act to fruition in 1993. Instrumental in the passage of a block grant program to fund day-care centers for school-age children, she also authored and helped pass into law the Violence Against Women Act, the Child Support Responsibility Act, the Economic Equity Act and the National Child Protection Act. She was an early supporter of legalized abortion and sponsored legislation making it a federal crime to obstruct access to abortion clinics.

She also was active in military issues, expediting the National Security Committee's vote to allow women to fly combat missions in 1991 and working to improve conditions for military families through passage of her Military Family Act in 1985.

In recognition of her support for and advocacy on behalf of children and women, and her role championing education and free speech, she will receive an honorary doctorate in humanities.

Campus Watch

The following incidents were reported to University Police from April 12-18. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This release is provided as a public service to promote safety awareness and is available on the University Police Website at rescomp.wustl.edu/~wupd.

April 14

3:10 p.m. — A Campus Y staff member reported that someone stole a computer and monitor, valued at \$370, from Umrath Hall.

April 18

12:30 a.m. — A University shuttle bus was involved in an accident at the intersection of Forsyth and Skinker boulevards. The drivers of both vehicles were treated at local hospitals for minor injuries.

7:10 p.m. — A student reported that someone stole a videodisc player, 12 games and a movie, valued at \$1,110, from a common area of a suite in Dauten Residence Hall.

University Police also responded to six additional theft reports, three reports of vandalism, one additional auto accident and one report each of false fire alarms, a peace disturbance and an unauthorized party.

Notables

Engineering school to honor eight distinguished alumni

The School of Engineering and Applied Science will honor eight distinguished alumni Wednesday, April 28, at its 25th Annual Alumni Achievement Awards Dinner.

The event, to be held at the Chase Park Plaza's Starlight Roof, will begin at 6 p.m. with cocktails, followed by dinner and the awards program at 8 p.m.

Christopher I. Byrnes, Ph.D., dean of the engineering school, will present the awards along with Charles A. Buescher Jr., past president of the school's Alumni Advisory Council.

To be honored are: Tom

Bugnitz and Greg Sullivan, who are co-recipients of the Dean's Award; Joan Huser, who will be honored with the Young Alumni Award; and Malcolm Deisenroth Jr., Nicolas M. Georgitsis, Dennis Kessler, Cecil Lue-Hing and Harold W. Wiese, who will receive Alumni Achievement awards.

Bugnitz, who received a bachelor's degree in applied mathematics and computer science and a master's of business administration, both in 1974, and **Sullivan**, who earned a bachelor's degree in systems science and mathematics in 1981, co-founded Project ASK (an acronym for Alumni Sharing Knowledge). The program helps University engineering students gather practical career information. The two are being honored for their vision and ongoing commitment to the engineering school and its students.

Bugnitz is president of the Beta Group, a St. Louis-based consulting company specializing in the applications of information technology for Fortune 500 companies. He also is co-chair of the Information Technology Network of the Regional Commerce and Growth Association's Technology Gateway Initiative.

Sullivan is founder and chief executive officer of G. A. Sullivan, a custom software development services company with headquarters in St. Louis and offices in Kansas City, Kan.; Cincinnati; Nashville, Tenn.; and Atlanta. Sullivan is recognized internationally as a co-author of several best-selling computer books published by Macmillan Computer Publishing's Que and Sams labels,

including the recent release, "Building Enterprise Solutions with Visual Studio 6."

Huser, who received a bachelor's degree in computer science and electrical engineering in 1984, will be honored for her leadership and success in technical communications and sales management. Following graduation, Huser began work with AT&T Bell Laboratories and made contributions to digital signal processing products. She worked in Japan for AT&T to develop strategies for penetrating communication and multimedia accounts. She returned to her Silicon Valley home in 1993 to advance her career in technical and sales management positions. She received AT&T's top sales recognition and the company's Leaders Council award for her sales work.

When the company split into three independent companies, Huser went with Lucent Technologies, where she has received a Lucent Technologies Leaders Council Award for her contributions as a sales manager.

Deisenroth, who earned a bachelor's degree in geological engineering in 1944, is being honored for his accomplishments in the oil and gas industry, his entrepreneurial spirit and his dedication to his church and community. For more than 50 years, he has been active in the oil and natural gas industry in Oklahoma and branched out into the insurance, cattle-raising and bank businesses. He has performed numerous humanitarian efforts and has been active in the Episcopal Diocese of Oklahoma.

Georgitsis, who received a bachelor's degree in electrical

engineering in 1958, will be honored for his exemplary leadership and accomplishments in international business and engineering management. He has held a variety of administrative positions with Bendix International, American Can International and American Standard Inc.'s Automotive Products Group. During his tenure at American Standard, he built the automotive group to a global business from \$250 million in annual sales to \$800 million, with operating income of \$130 million, the most profitable in the company. Today he serves as a consultant and adviser to corporations and investment banks in private equity investments.

Kessler, who earned a bachelor's degree in industrial engineering in 1960 and a master's degree in engineering administration in 1964, is being honored for developing innovative employee relationship programs and community dedication. During his 34 years with Fel-Pro Inc. in Chicago, Kessler held many administrative positions and was instrumental in developing a company culture and work/life program that gained international recognition. Due in part to his efforts, Fel-Pro has been listed numerous times as one of the top companies to work for in America.

Currently, Kessler is president of Kessler Management Consulting, which specializes in management organization, strategic planning, work/life programs, leadership training and succession planning for family businesses.

Lue-Hing, who received a doctorate in environmental and sanitary engineering in 1966, will

be honored for his research and contributions to the field of wastewater treatment. In private industry, Lue-Hing pioneered innovative pollution control technologies for the synthetic rubber, non-ferrous metals, textile and pesticide industries. In government service with the city of Chicago, he made many contributions to wastewater treatment technology. He is internationally recognized as a specialist in the treatment, use and disposal of wastewater residuals and the development of design criteria for use of wastewater residuals in agriculture, for land reclamation, as fertilization for sod production and for construction of golf courses.

Wiese, who received a bachelor's degree in electrical engineering in 1930, is being honored for his career in sales engineering, for his revolutionary idea of palletizing beer and for his dedication to his church and community. Wiese began his own sales engineering company in 1944. In 1946, at the old Griesedieck Western Brewery in Belleville, Ill., he reduced handling of bottled beer cases from production line to destination from five manual handling operations to one. Wiese then applied similar palletizing techniques at the other St. Louis breweries — Griesedieck Brothers, Falstaff and Anheuser-Busch. In 1998, Wiese Planning & Engineering Inc. sales exceeded \$100 million and the company employed 517 with 20 branch locations in eastern Missouri, southern Illinois and Indiana.

For information on the dinner, contact Rebecca Hauk at 935-8730.

Clemens receives 1999 Eliot Society Search Award

Former head volleyball coach Teri Clemens, who led the Bears to seven NCAA Division III titles, was awarded the University's 1999 William Greenleaf Eliot Society Search Award April 13 at the society's annual dinner at the Ritz-Carlton Hotel in Clayton.

"Teri Clemens, both as a coach and a human being, has been an inspiration to her players and to her



Clemens: Built volleyball dynasty

colleagues," said William H. Danforth, chairman of the Board of Trustees, who presented Clemens with the award recognizing an outstanding citizen of the Washington University community.

Joining the University in August 1985, Clemens made good on her goal of bringing an NCAA championship to the University within five years. With her original recruiting class matured into seniors, she led the Bears to the 1989 Division III title — the first in a century of Hilltop athletic history. Clemens then built a dynasty that extended itself to seven NCAA titles — including six in a row from 1991 through 1996.

In August 1997, Clemens was named the United States Olympic Committee's second annual National Coach of the Year for volleyball.

In the midst of her NCAA title run, Clemens coached in a pair of U.S. Olympic Festivals (USOF). She served as head coach of the north squad for the 1991 and 1994 festivals. Her 1994 USOF squad won the bronze medal in St. Louis. That competition was contested on the Washington University campus, where the Bears program won an NCAA all-divisions record of 102 consecutive home matches from 1991 to 1997.

Clemens boasts the highest winning percentage in all of collegiate volleyball with a .873 mark (529-77) and was honored as the NCAA Division III Coach of the Year five times. She and longtime assistant coach Joe Worlund also were honored 10 times as the University Athletic Association's Staff of the Year. Under Clemens, the Bears produced a 136-1 record in 12 years of conference play.

The William Greenleaf Eliot Society was founded in 1959 in tribute to the University's co-founder. Since then, the generosity and support of the society's members have contributed substantially to the growth and success of the University.



Sculptor at work Julian Lynn, a sculptor in the School of Art's Graduate Program, installs her work, "Cradle is green," in the Gallery of Art as part of the school's "Master of Fine Arts Thesis Exhibition," which opened April 16. The exhibition features work by 15 graduating master's candidates and remains on view through April 28.

Hutchings named associate dean of business school

Gregory J. Hutchings, J.D., managing director of A.G. Edwards & Sons in St. Louis, has been appointed associate dean of the John M. Olin School of Business and director of its Weston Career Resources Center. The center assists undergraduate and graduate business students, as well as alumni, in their job searches. Hutchings will take up his post in May.

"Greg's financial, analytical, marketing and interpersonal skills will be a great asset as he heads the Weston Career Resources Center," said Stuart I. Greenbaum, Ph.D., dean of the business school. "We're delighted to have a professional of his caliber in this important position."

Hutchings, who has a wealth of knowledge about investment

banking and a wide variety of industries, will be responsible for developing corporate relationships for the business school as he oversees all services of the center. Its staff of nine offers career-education programs, one-on-one advising sessions, company information sessions/receptions, on-campus recruiting, résumé referrals, job postings, marketing activities, practice interviews, workshops and panel sessions, the career resources



Hutchings: Director of Weston Career Center

library and contact databases, including the Alumni Sharing Knowledge network. Through the center, 135 international, national, regional and local companies conduct on-campus recruiting, and 800 companies post jobs and request résumé referrals.

Hutchings, who has been with A.G. Edwards since 1983, helped develop long-term business strategies for its corporate finance department. His duties in corporate finance included business development and execution functions. He was responsible for developing the firm's first systematic business development effort through its 6,500 brokers and was recently co-head of its health care effort in the corporate finance department. He also pioneered a

corporate finance recruiting and training program for associates and analysts, which included marketing A.G. Edwards at nationally recognized graduate business schools, interviewing and hiring candidates, developing the first career-track and performance-appraisal system, and developing the orientation and training program for corporate finance associates. His prior positions with the firm were vice president and associate.

A native of Granite City, Ill., Hutchings earned a bachelor's degree from the University of Illinois, Urbana-Champaign, a master's degree in public policy from the University of Chicago, and a doctor of law degree from Saint Louis University.

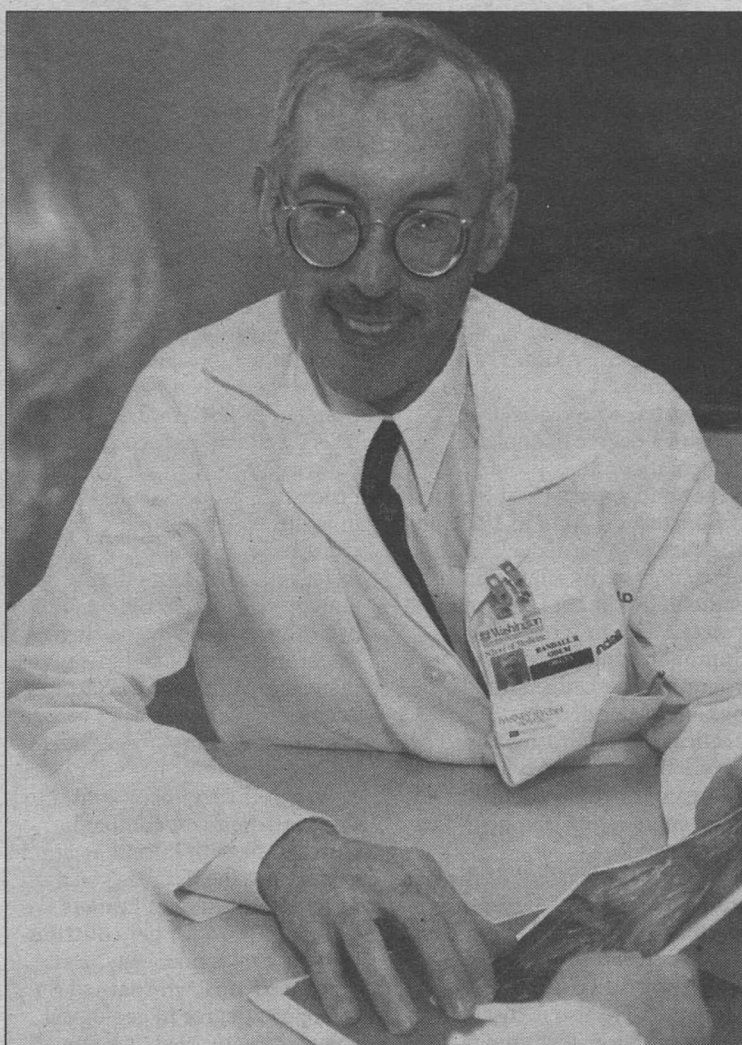
Washington People

When Randy Odem talks about the School of Medicine's new infertility center, he sounds like one of his patients. Conception – of the center – consumed him for several years, but he dotes on the end product.

Plans for the center, which Odem directs, miscarried several times. At one point, the group even had the wallpaper picked out, but the building was then slated for demolition.

The fortuitous end result is a state-of-the-art facility at 4444 Forest Park Ave. that opened in October 1997. "I am really impressed with what they have been able to do and with the commitment the institution has made to reproductive medicine," said Luigi Mastroianni Jr., M.D., the William Goodell Professor of Obstetrics and Gynecology and director of the Human Reproductive Division at the University of Pennsylvania Health System. "Dr. Odem is an acknowledged national leader in the field, and he has created an efficient yet humane program, which is always a fine line when you are dealing with any new technology."

Randall R. Odem, M.D.,



Randall R. Odem, M.D., views an ultrasound image revealing a twin gestation resulting from in vitro fertilization.

One of his other areas of expertise is in vitro fertilization (IVF), in which eggs are surgically removed from the ovaries, fertilized in a dish and placed in the womb. In 1998, the program performed 245 IVF procedures, and about 350 cycles are likely to be performed in 1999. Seventy-six of last year's cycles included a technique called intracytoplasmic sperm injection, in which a sperm is injected directly into an egg. This procedure is a lifeline for couples for whom low sperm count normally would prevent conception.

Performed correctly, IVF doesn't produce seven mouths to feed. "Our program's philosophy is to provide IVF to the right people with a high success rate while preventing higher-order pregnancies," Odem said. "So we always try to implant few embryos – usually only two or three – and use procedures that give us the best results possible. That means running stimulation cycles well and having the best possible laboratory procedures, equipment and workers. I don't think people realize how important that is."

Having the right workers – 37 in all – tops Odem's list. All four physicians in the IVF program also are board-certified reproductive endocrinologists – the largest collection in town. Odem also has assembled a top-of-the-line crew of nurses, embryologists and a social worker. "I'm very proud of the bricks and mortar of this place," he said, "but having the right people is what makes the program work."

People skills are one of Odem's biggest assets, according to Schreiber. "He's recruited and nourished really good people," Schreiber said, "and he's nice, honest, and a class act."

Looking ahead

Now that the center is in place, Odem can look ahead. He's excited about preimplantation genetic diagnosis, which aims to improve IVF by identifying embryos free of known disease genes. This technology will help couples who discover they are carriers for disorders such as Tay-Sachs disease or cystic fibrosis, for example. It also should help older couples. "One of the reasons why their pregnancy rates are not as high is that a lot of their embryos are genetically abnormal. In the future, we will be able to avoid using embryos with obvious abnormalities that would lead to failure of conception or to miscarriage," Odem predicted.

Surgical and drug treatments will become more selective, too. "We will be able to tailor treatments more appropriately to different abnormalities," Odem said. "The more precise we can be, the more our success rates will improve."

Randall R. Odem, M.D.

Education: B.A., University of Iowa, 1978 (Phi Beta Kappa); M.D., University of Iowa, 1981

Positions: associate professor of obstetrics and gynecology; director of the Division of Reproductive Endocrinology

Family: Wife, Kathryn A. Odem; sons, Nicholas (13), Brian (11), and Matthew (7)

Other activities: Walking in the woods, fixing his house, landscaping his yard, scouting and soccer with his sons, the Repertory Theatre of Saint Louis, St. Joseph's Church in Manchester

Helping couples become families

Randall R. Odem, M.D., directs cutting-edge infertility program

BY LINDA SAGE

associate professor of obstetrics and gynecology and director of the Division of Reproductive Endocrinology, intended to become an obstetrician. But instead of bringing babies into the world, he helps usher them into the womb. "It's very rewarding when people who have had longstanding fertility problems or lots and lots of miscarriages finally have a baby," said Odem, who relishes the baby pictures and birth announcements. He even gets Christmas cards from couples with teens.

Choosing obstetrics

Odem decided on obstetrics and gynecology during his third year of medical school in 1979, attracted to its mix of surgery and medicine. He chose reproductive endocrinology because the field had a growth spurt at that time. The first test-tube baby, Louise Brown, was born in England in 1978. American successes followed in the early 1980s, while Odem was a resident at the University of Illinois at Chicago.

"The medications we use for ovulation were just starting to undergo a series of changes that continue to this day," Odem explained. "And a lot of the surgical techniques that are

commonplace now were just starting to come of age. But what really appealed to me is that reproductive endocrinologists have the opportunity to do something very special for people. Many of our patients have been trying to have a family for a long time. In most instances, they come to see us as husband and wife, but when they leave, they are destined to be a family."

Family is a major theme in Odem's life. In 1981, he married Kathryn Luebbert, then an intensive care nurse. The Odems now are soccer parents to three boys: Nicholas, 13; Brian, 11; and Matthew, 7. And Odem himself was one of three siblings. In his hometown of Davenport, Iowa, his father, a laborer in a grocery warehouse, and his mother, a bookkeeper, "gave us strong encouragement to study so that we could work with our minds instead of our backs."

In high school, Odem decided to become a physician, joining the Medical Explorer Post, an

advanced unit of the Boy Scouts movement. At the University of Iowa, his undergraduate education and part of medical school – the two overlapped for one year – were financed by an academic scholarship funded by physician/philanthropist Walter E.

Neiswanger, M.D.

"This was a major event in making a career in medicine possible for me," Odem said.

After completing his residency in Chicago in 1985, Odem came to the medical school as a fellow in reproductive

endocrinology. He joined the faculty as an instructor in obstetrics and gynecology in 1986. James R. Schreiber, M.D., professor and head of obstetrics and gynecology, said Odem is a good surgeon, a good teacher, a good clinician and a good administrator. "He's smart, he has plans, and he carries them out," Schreiber said.

Odem's main areas of technical expertise are ovulation induction, recurrent miscarriage and minimally invasive surgery of the ovaries, tubes and uterus. For example, he corrects problems within the uterine cavity such as polyps, fibroids or developmental abnormalities that might hamper a good reproductive outcome.

Odem has taken part in nine clinical trials of drugs that make women ovulate, make them ovulate better or enable them to produce eggs for in vitro fertilization. He also played a major role in a large study of recurrent miscarriage; the results will be published soon. "More than half of women with three or more losses will have a good outcome," he said. "We help by finding and correcting problems such as anatomical abnormalities in the uterus, problems with ovulation or a deficiency of the thyroid gland."

"It's very rewarding when people who have had longstanding fertility problems or lots and lots of miscarriages finally have a baby."

RANDALL R. ODEM



The Odems – Kathy, Brian, Randy, Matthew and Nicholas – enjoy a catamaran on the waters of Green Bay in Lake Michigan.