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## Washington University Record, May 5, 1994

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## University's Parents Council 'generally very satisfied'

Parents are generally very satisfied with the experiences their children are having in and out of the classroom at Washington University, according to the findings of more than 15 focus groups held last October with 115 members of the University's Parents Council.

"The parents have a positive feeling about Washington University and share our goal of wanting to make Washington University even better," said Van Brokaw, associate vice provost and facilitator of the Parents Council focus groups.

The Parents Council focus group discussions are part of a broad effort to gauge the perceptions different groups have about Washington University. University Management Team members also are meeting with student, faculty and staff focus groups to hear their concerns with an eye toward improving areas of dissatisfaction. As a followup to last fall's Parents Council focus groups, several administrators met with the Parents Council at its recent spring meeting to update the parents on initiatives being taken in the areas of academic and career advising, campus security and food service. (See related story below).

### Parents' expectations

According to the focus group report, parents of first-year students, sophomores, juniors and seniors share many of the same hopes and dreams for their children's development while at Washington University. In general, all parents expressed a desire for their sons and daughters to be well-rounded, complete adults who are intellectually vital, emotionally secure and professionally successful.

Parents of first-year students spoke most often about instilling self-confidence, self-esteem and strong values. Academically, their goals for their children range from learning study skills and time management techniques to developing a lifelong love of learning.

Parents of upper-class students are most interested in their children making a suc-

cessful transition from youth to early adulthood by developing values, emotional maturity, sophistication in personal relationships and by learning about themselves and their ability to cope with society and the world. Academically, parents of upper-class students generally want their sons and daughters to receive a well-rounded education, learn critical thinking skills and intellectual discipline and graduate well-prepared for graduate school and, ultimately, a meaningful and rewarding job.

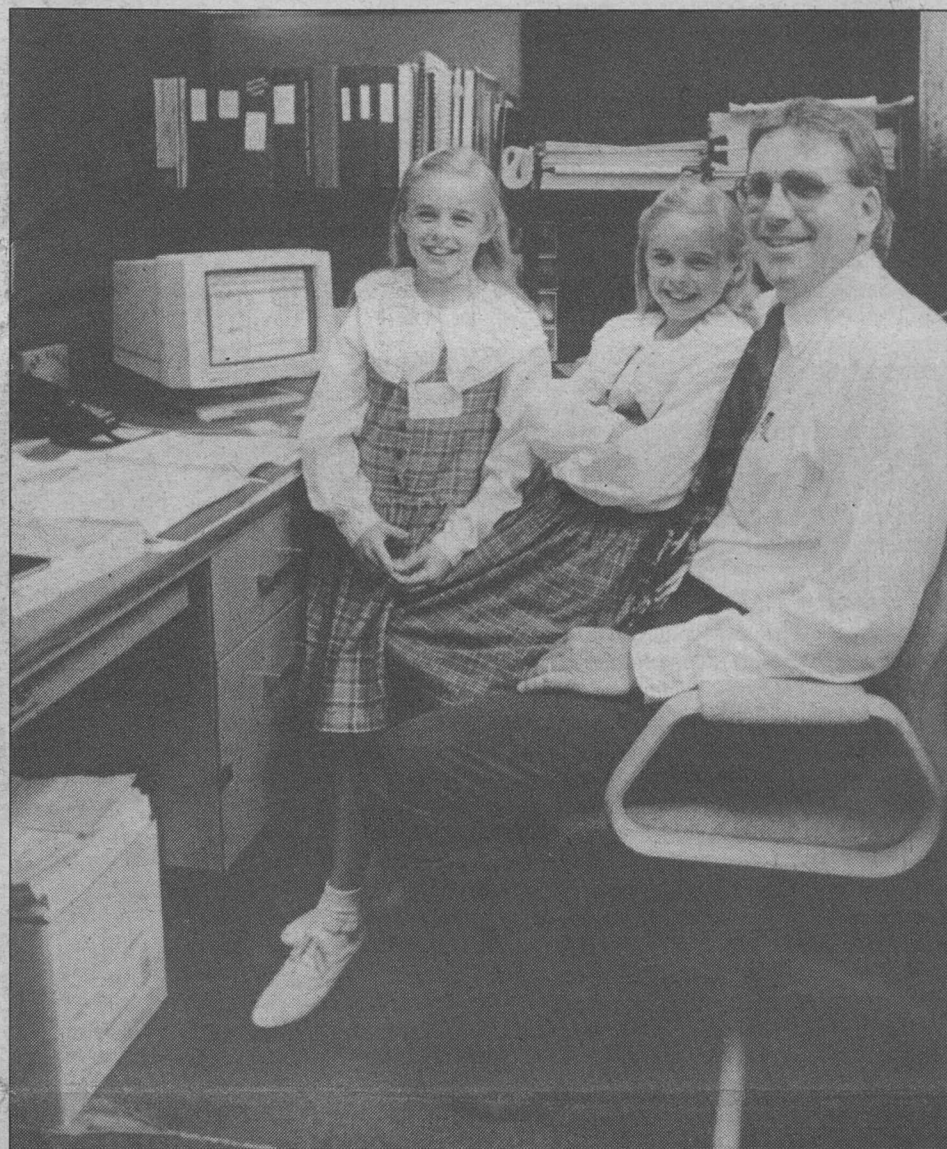
In the focus groups, parents were asked to relate their expectations for Washington University. According to their responses, parents expect the University to: provide close adviser/mentor relationships between faculty and students, plus good counseling; communicate about special opportunities and resources available to handle special problems; instill a love of learning; and provide a secure campus.

### High level of satisfaction

As stated earlier, the overall level of satisfaction with Washington University among parents is very high. Parents see Washington University as a supportive and diverse community with a friendly, Midwestern culture, characterized by individualized attention from administrators and a very supportive residential life experience, particularly for first-year students. Three parents of students in the College of Arts and Sciences said the University is "a good mix of TLC and academic excellence."

Parents also expressed satisfaction with Washington University's strong and challenging academic programs, which they say provide for well-rounded, broad and flexible exploration of subjects, as well as friendly student/faculty relations. In most focus groups, there was an underlying assumption of academic excellence and many parents expressed appreciation that different schools work together to give students the chance to take courses outside of their discipline or school.

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Twins Elizabeth (left) and Rosemary Hunn, 9, said the best part of "Take Your Daughters to Work Day" was "going through the tunnels to the castle" (i.e. Brookings Hall). They are the daughters of William Hunn, senior project leader in Information Systems.

### 'Take Your Daughters to Work Day'

## Employees campuswide take part

Nicole Lyons, 8, learned about teamwork in an employee communications seminar and helped her mother catch up on paperwork.

Kristen Kniepkamp, 10, attended a meeting, played computer games and cleaned her mother's desk.

Twins Elizabeth and Rosemary Hunn, 9, also attended a meeting, talked to their father's co-workers, but agreed that the most fun was "going through the tunnels to the castle" (i.e. the basement from Cupples I to South Brookings Hall).

April 28 marked national "Take Your Daughters to Work Day." Torrential rains brought a planned picnic indoors but did not dampen the spirits of dozens of daughters who accompanied their parents to work at Washington University. In fact, the weather made the day even more exciting for 9-year-old Stephanie Schucardt, the daughter of Steve Schucardt, a carpenter in the Department of Facilities Planning and Maintenance.

"We got to go around and clean all the gutters and drains so all the puddles wouldn't make a big flood. I got wet up to here," Stephanie said, drawing a line by the knee of her flowered pants. "I'm still wet, but it was fun."

"Take Your Daughters to Work Day" was designed by the Ms. Foundation of New York to give young girls positive messages about work and self-worth. The theory is that, contrary to what parents might think, children and young adults do pay attention to their elders. For the length of the workday, daughters between the ages of 9 and 15 shadowed their mothers and fathers in offices, laboratories and classrooms across campus.

"It's important for children to see their parents in work settings because this provides a great opportunity for modeling

and modeling is among the strongest of educational techniques. It's a very powerful way to learn," said Mary Ann Dzuback, Ph.D., assistant professor of education. Dzuback studies education policy, including gender differences in education. "Bringing children into the workplace provides an excellent opportunity for children to learn important lessons about hard work, responsibility and the possible roles they might fill as working adults. This is particularly crucial for girls."

Why just girls? According to the Ms. Foundation, the onset of adolescence brings a marked drop in many young girls' self-esteem and confidence. Literature released by the organization claims that though women make up almost half the work force, they hold only 3 percent of the top positions. Helen Power, Ph.D., coordinator of Women's Studies, said it is important for daughters to see women in satisfying, responsible professions.

"Mothers taking their daughters to work

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## Focus groups' findings reinforce ongoing efforts to improve academic, career advising

The findings of the Parents Council focus group reinforced ongoing efforts to improve several aspects of the students' experience at Washington University. In some cases, the parents' concerns involved areas of the University that are facing external pressures, including new economic and social realities. A changing corporate environment, for example, is affecting the way American businesses recruit college seniors. And increasing concern about crime nationwide is changing the way university police departments provide security.

Several administrators — including James McLeod, dean of the College of Arts and Sciences, Harry Kisker, vice provost, Lea Ann Ruhlmann, general manager of Marriott Food Services, and William Taylor, chief of the University Police Department — spoke at the April 8 meeting of the Parents Council and at the April 18 meeting of the University Management Team to discuss what their departments already are doing in areas where parents expressed concern.

### Advising ratios improve

Academic advising in the College of Arts and Sciences is based on a two-tier system. First-year students and sophomores

see a "college adviser" until they declare a major, after which they switch to a "major adviser" in that department. Selected faculty members serve as advisers. McLeod said the current system is receiving special attention, partially due to changing demands on advising.

"Expectations now are much higher for advising. Students want more advice, broader advice, not just on courses and majors, but on the best way to prepare for the rest of their lives," McLeod said. "There is greater anxiety about the future. There are more choices. The curriculum is more flexible. This is a real opportunity for the faculty, because to be listened to by a student is something to be cherished."

Until recently, each faculty adviser saw about 32 students. Now, more faculty are serving as advisers and each has fewer advisees. In addition, the college has instituted a peer adviser program. Approximately 150 advanced students have volunteered to be peer advisers. Their efforts supplement, but do not substitute for the work of faculty advisers.

"Thirty-two students per adviser was simply too many," McLeod said. "The peer advising system has been a great success. In many cases, students understand other

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Classical Indian performer Imrat Khan teaches students the philosophy of life through music



# Medical Update

## New surgery improves quality of life for emphysema patients

**T**housands of patients with severe emphysema may benefit from a new surgical procedure developed at the School of Medicine. The procedure, in which surgeons remove heavily damaged portions of patients' lungs, dramatically improves lung function and helps patients breathe easier, said Joel D. Cooper, M.D., the lung transplant surgeon who pioneered the surgery.

Cooper, professor of cardiothoracic surgery, recently presented results at the annual meeting of the American Association for Thoracic Surgery in New York City from the first 20 patients to undergo the procedure. In the future, the surgery may be the treatment of choice for patients with severe, debilitating emphysema who have not responded to medical therapy, Cooper said.

"So far, we have an average improvement of 82 percent in patients' breathing capacity," said Cooper, who is credited with performing the world's first single-lung and double-lung transplants. "For these severely disabled patients, this translates into a marked improvement in the quality of their lives."

During the surgery, Cooper removes 20 to 30 percent of the most damaged portions of each lung. As emphysema progresses, patients' lungs gradually enlarge, crowding the chest cavity and flattening the diaphragm. Reducing the size of their lungs gives patients more room to breathe. There have been no deaths during or following surgery.

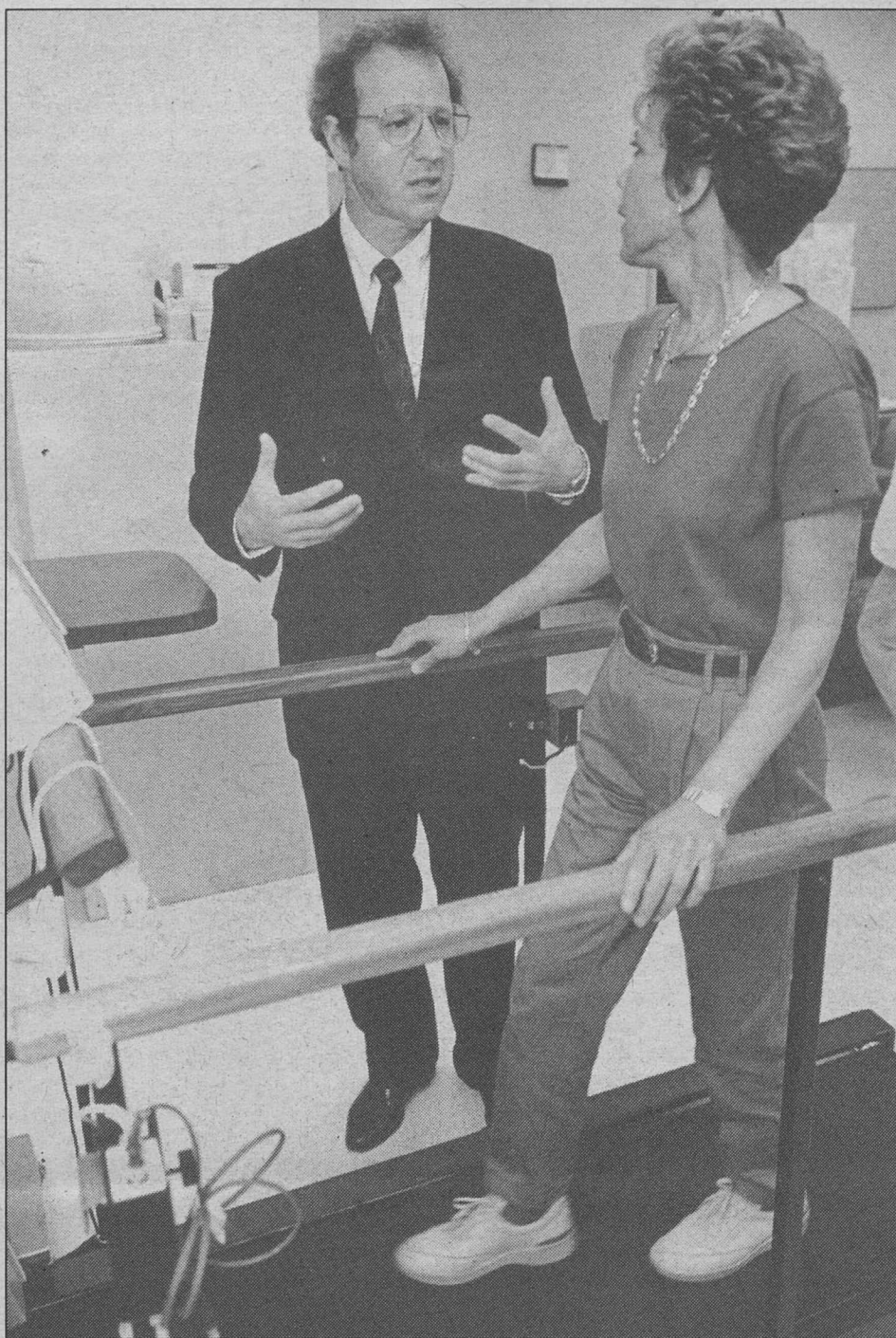
Patients who have undergone the procedure report dramatic results. Before surgery, 14 patients required supplemental oxygen during exercise or strenuous activities, including five who also required oxygen at rest. Three months following surgery, only two patients need supplemental oxygen during vigorous exercise; one patient requires oxygen at rest.

Bonnie Gillmore, 49, of Plainville, Mass., was diagnosed with emphysema 15 years ago. She said the surgery has given her a new life.

"Before the surgery, I had to keep my hair short because lifting my hands overhead to wash my hair was exhausting," said Gillmore, whose emphysema was so severe she had to quit her job as a computer software engineer. "Walking down the block to pick up a newspaper was a major event because I had to walk up and down several stairs to get in and out of my house."

"Now, I'm doing things I haven't done in 15 years," she said. "This operation has definitely given me my life back."

Emphysema afflicts an estimated 1.6 million Americans, according to the American Lung Association. The irreversible disease assaults the body's lung tissue, causing the walls between the lung's tiny air



Joel Cooper, M.D., professor of cardiothoracic surgery, talks to emphysema patient Lynn Marantz as she walks on a treadmill. Marantz is among the first 20 patients to undergo lung volume reduction surgery, a new procedure developed by Cooper for treating emphysema.

sacs to break down. As the air sacs become unnaturally enlarged, elasticity of the lung tissue is lost, which prevents the lungs from expanding and contracting normally. Breathing becomes more difficult and, ultimately, each breath becomes a chore.

As the disease advances, emphysema patients grow weaker. At first they experience only minimal shortness of breath, but gradually they become unable to carry out

minor physical activities and eventually become dependent on supplemental oxygen, even at rest.

"Emphysema is like breathing in as far as you can and having to live with your chest in that position for the rest of your life," Cooper said. "That's what happens progressively to these patients — their lungs are fully expanded and they can barely breathe."

The concept for the emphysema surgery

originally was proposed almost 40 years ago by Otto Brantigan, M.D., a surgeon at the University of Maryland. But the procedure never gained widespread acceptance because of its relatively high mortality rate and the lack of objective data at that time to document patient improvement.

Until now, lung transplants offered the only substantial relief for patients with end-stage emphysema. But transplants, which subject patients to a lifetime regimen of anti-rejection drugs, are risky and used only as a last resort.

Cooper, who began performing the surgery 15 months ago at Barnes Hospital, initially offered the procedure only to emphysema patients who were too old or too sick to be considered for a lung transplant. After the procedure's early success, Cooper expanded the criteria to include some emphysema patients who would otherwise qualify for a lung transplant.

Though emphysema is caused by cigarette smoking, patients who continued to smoke were not considered for the procedure. Patients who underwent the surgery ranged in age from 37 to 76 (mean age of 56); 11 patients were male and nine were female.

The median hospital stay was 13 days. Initially, the surgery was complicated by multiple small air leaks in the lungs, caused by staples used to seal off the lungs. Cooper now uses strips of thin, leathery tissue from a cow's pericardium — the sac surrounding the heart — to buttress the staple line, which has been effective in preventing air leaks and reducing hospital stay.

Three months following surgery, patients reported significant improvement in their energy level, emotional reactions and physical mobility. Six months postoperatively, patients also noted a significant reduction in health problems related to their job, housework, social life and hobbies.

The surgery, however, does not cure emphysema, Cooper cautioned. "These individuals may continue to experience deterioration from emphysema, but if we can reset the clock by two, three, four or five years, maybe more, then we think it will be very worthwhile."

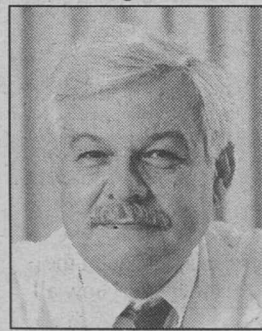
If the early success of the procedure translates into a long-term benefit for emphysema patients, the surgery may become an alternative to a lung transplant or a "bridge" to future transplantation, if it becomes necessary.

— Caroline Decker

## Gustav Schonfeld receives MERIT status for grant

**G**ustav Schonfeld, M.D., William B. Kountz Professor of Medicine, has been honored for his scientific contributions by receiving MERIT status for his latest grant.

The five-year grant from the National Heart, Lung and Blood Institute, part of



Gustav Schonfeld

the National Institutes of Health, totals more than \$1.1 million. The funding enables Schonfeld to continue his research studies on the structure-function relationship of apoB, the major protein of

LDL, "the bad cholesterol," and to ascertain how genetic defects and apoB may produce low cholesterol levels.

MERIT (Method to Extend Research in Time) status guarantees Schonfeld uninterrupted financial support without the time-consuming paperwork and other delays traditionally associated with grant renewal applications. Researchers cannot apply for MERIT status, but are chosen in recognition

of their consistent commitment to excellence based on previous research. Once received, a five-year grant with MERIT status may be extended an additional three to five years, based on an expedited review of work accomplished during the initial period.

Schonfeld's study, ongoing since 1989, involves looking for variants of the apoB blood protein, responsible for carrying cholesterol and triglycerides, with a goal of finding the structure-function relationship of apoB and its role in atherosclerosis.

## Diabetes, endocrinology research grants available

**F**aculty members who conduct diabetes and endocrinology research may apply for funding through the Diabetes Research and Training Center (DRTC) at the School of Medicine.

Researchers at the Hilltop Campus as well as those at the medical school are encouraged to apply for the funding, which begins Dec. 1, 1994. The two-year grants will range from \$5,000 to \$25,000. Applications from the basic sciences, epidemiological and behavioral science departments are particularly encouraged.

The DRTC pilot and feasibility program

fosters projects required to develop preliminary data that could lead to independent research support by the National Institutes of Health (NIH). The NIH awards three to four such projects at the medical school annually.

Those interested must submit letters of intent to the DRTC by June 20; proposals must be submitted by Aug. 8. Both should be sent to Melanie Puhar at Campus Box 8212. For more information and application forms, call 362-8290. Specific questions should be directed to DRTC Director Julio Santiago at 454-6046.

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Record (USPS 600-430; ISSN 1043-0520), Volume 18, Number 30/May 5, 1994. Published for the faculty, staff and friends of Washington University. Produced weekly during the school year, except school holidays, and monthly during June, July and August by the Office of Public Affairs, Washington University, Campus Box 1070, One Brookings Drive, St. Louis, Mo. 63130. Second-class postage paid at St. Louis, Mo.

Address changes and corrections:

Postmaster and non-employees: Send to Record, Washington University, Campus Box 1070, One Brookings Drive, St. Louis, Mo. 63130.

Hilltop Campus employees: Send to Office of Human Resources, Washington University, Campus Box 1184, One Brookings Drive, St. Louis, Mo. 63130.

Medical Campus Employees: Send to Payroll Office, Washington University, Campus Box 8017, 660 S. Euclid, St. Louis, Mo. 63110.



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# Washington People

## Roth's humor belies strong commitment

**K**evin Roth, M.D., Ph.D., has taught more medical school lectures in his four years as an assistant professor of pathology at the School of Medicine than he ever attended as a medical student.

"I went to as few classes as I could get away with," Roth recalled about his time at Stanford University Medical School. "But I attended enough lectures to know that the standard way information was presented to medical students was dull."

So it may come as no surprise that Roth strives to make his lectures about the pathology of the nervous system interesting and relevant to the lives of young doctors-to-be. Shedding the staid image a white lab coat conveys, Roth stands before his

students in jeans and tennis shoes. At 36, he looks more like a medical school resident than a medical school professor.

Roth's enthusiasm for teaching and for neuroscience are well known among medical students. They appreciate his relaxed, informal style, entertaining lectures and ability to relate to medical students as peers.

"He's one of us," said Scott Gilbert, a second-year student. "He's on our level. He doesn't speak from the lectern; he comes down into the class to lecture. We feel like he's part of the class."

Roth's efforts in the classroom have not gone unrecognized. For the past two years, the second-year medical students have voted him "Lecturer of the

Year" and presented him with the Distinguished Teaching Service Award. Roth teaches neuropathology, the study of changes in tissues of the nervous system that underlie the development of neurologic diseases, to second-year medical students as part of the general pathology course.

"You can't teach and necessarily expect to be rewarded for it," Roth explained. "It's an internal reward. It's the job of communicating your experiences to other people who couldn't get those experiences any other way that makes teaching enjoyable."

Roth's lively lectures, which draw upon his own personal experiences as a neuropathologist, are largely responsible for sparking students' interest in neuropathology. On that pretext, Roth slips in important information about the field that he believes medical students need to know.

"I think I'm entertaining to them," Roth said. "But more importantly, I think they are learning a lot about neuropathology. Our primary job as teachers is to transmit information to students in a way that is easy for them to learn," he continued. "We're not here to be MTV, but teaching doesn't have to be outrageously rigorous, dry and dull so that everyone goes to sleep."

Roth has been known to show up for formal presentations in black tennis shoes and outdated ties. Those who spend more than a few minutes with Roth quickly realize there is more to him than a sense of humor.

"People who have just met Kevin may misinterpret what they perceive as a 'laid-back' style," said Robert E. Schmidt, M.D., Ph.D., director of the Division of Neuropathology. "His laid-back nature belies an intense commitment to all the things he wants to do, and he doesn't want to do anything poorly."

When Roth is not teaching medical students or training residents, he is busy in the laboratory conducting his own research, lending his expertise to other researchers' projects or poring over tissue samples from patients with suspected nervous system disorders to help determine a diagnosis.

"There's a relationship between Kevin being a good teacher and a good collaborator," said Jeff Gordon, M.D., Alumni Professor and head of the Department of Molecular Biology and Pharmacology. "He gives freely of himself to others. He has a tremendous commitment to science and sharing ideas."

Most recently, Roth collaborated with Thomas Boren, L.D.S., Ph.D., a National Institutes of Health Fogarty Fellow in the Department of Molecular Microbiology, and co-workers at the School of Medicine on a paper published in December in the journal *Science*.

The team identified the natural target receptor for ulcer-

causing bacteria, a finding that may one day lead to a new line of ulcer drugs.

Gordon, who has collaborated with Roth on several research projects, said he admires Roth's breadth of perspective. "He's been an outstanding source of information for our entire department."

But more importantly, Gordon said, "Kevin has very high standards he holds first and foremost for himself. By example, he raises the standards for those who work with him and for him."

Neurosurgeons, who depend on accurate pathological diagnoses to effectively treat their patients, also speak highly of Roth's diagnostic savvy. They say such skill usually comes much later in a pathologist's career.

ship. He said he agonized day and night over the mental well-being of his patients.

"I didn't find it was easy for me to turn on a caring feeling for a patient and then walk out of the door at the end of the day and turn that off," Roth explained.

A specialty in pathology, however, allowed Roth an opportunity to make diagnoses without working directly with patients. Pathologists interact with clinicians and serve as an important resource in determining the causes of disease. Also, pathology permitted Roth to devote time to basic research, with a focus on the central nervous system.

Roth completed his M.D./Ph.D. at Stanford and came to Washington University in 1985 as a pathology resident. After completing his residency in 1989, he was hired as an

assistant professor of pathology. In 1991 he received an additional appointment as an assistant professor in the Department of Molecular Biology and Pharmacology. Roth will be promoted to an associate professor of pathology in July.

Roth's commitment to teaching is one reason the neuropathology rotation has become more popular among residents in the Department of Neurology, said Schmidt.

But Roth's commitment does not end at the medical school. For the past four years, Roth has conducted a brain-cutting seminar for undergraduate psychology students on the Hilltop Campus. The sessions give students a chance to not only view human

brains, but to touch them and try to identify important anatomic structures. Roth shows students "normal" brains and those with neurologic diseases, such as brain tumors, Parkinson's disease or Huntington's disease. It is rare for undergraduate students to have such an opportunity.

During his first two years as a medical student, Roth remembers how much he craved clinical information. As a professor, he tries to satisfy students' desire for clinical relevance by structuring his lectures around interesting medical cases.

"I'll tell them stories about a case I saw last week, but instead of just feeding them the facts, I'll explain the complications, how I thought about it and how I worked through it," Roth said.

Roth hopes students walk away from his class with a bigger, broader message about their profession. "I believe that medicine is not all white men in white coats," Roth said. "Medicine has room for people like me who want to wear jeans and tennis shoes and T-shirts to work. It does not always have to be a Marcus Welby or Ben Casey kind of thing."

"The field has a lot of room for personalities. If the students can understand, from the way I teach, that there's room for their personality within the broader context of medicine, that's something I'd like to communicate," he said.

For all that Roth gives to his students, he says he always gets something in return — a continuing sense of enthusiasm. "Regardless of how much medical school pounds students down, their innate will and desire to be physicians is still there," Roth said. "That comes through over and over again."

As much as Roth enjoys teaching, he says he feels most at home in the laboratory. In his own lab, Roth focuses his efforts on studying the process of neurogenesis — how an uncommitted cell ultimately gives rise to a nerve cell, or neuron.

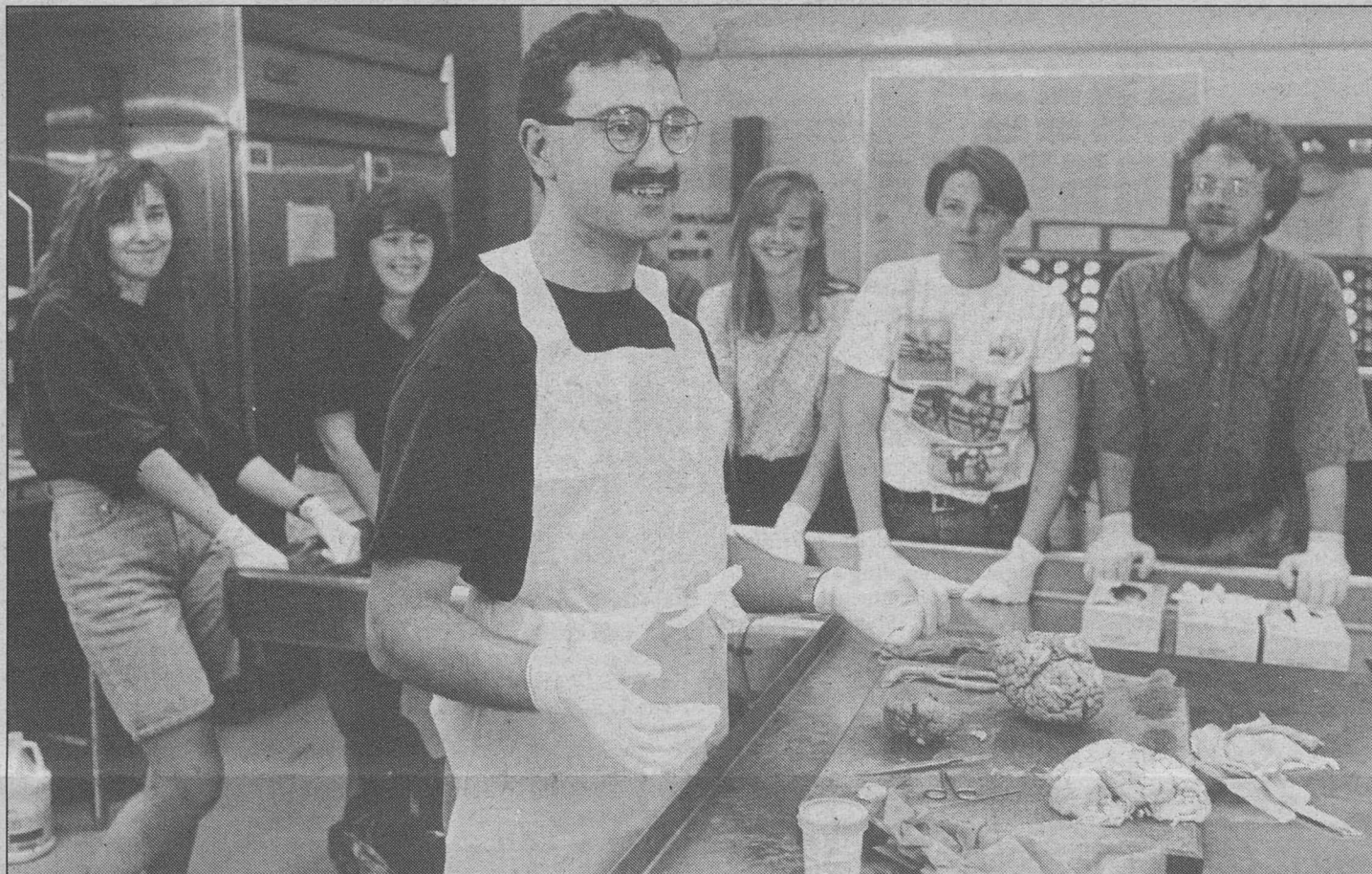
"When you contemplate the number of neurons in the brain, it's clearly a monumental task to understand how all those cells arise," Roth said.

He and his co-workers also are hoping to determine the various chemicals and nutrients in the body that are important for keeping neurons alive.

The clinical implications are multifold. If researchers can determine how neurons arise and how they are maintained, they may be able to develop better ways to treat degenerative diseases of the nervous system, such as Parkinson's, Alzheimer's and Huntington's diseases.

Such basic research also may lead to new treatments for brain tumors, many of which are believed to arise from the abnormal growth of immature nerve cells.

— Caroline Decker



Neuropathologist Kevin Roth, M.D., teaches neuroanatomy in an "Introduction to Neuropsychology" class. The students, from left, are Renee Fredrickson, Allison Potter, Melissa Banks, Pam McMurray and Henry Cribbs.

**"You can't teach and necessarily expect to be rewarded for it. It's an internal reward."**

"He's first-rate," said T.S. Park, M.D., professor of neurological surgery and pediatrics and neurosurgeon-in-chief at St. Louis Children's Hospital. "It's unusual for someone so committed to research to be so adept at diagnosing such a broad range of neurological ailments."

Roth's accomplishments in his short time at the School of Medicine are underscored by his relatively late decision to go to medical school.

Growing up in Sandusky, Ohio, a small town on the northern edge of the state, bordered by Lake Erie, Roth never dreamed he would one day be a doctor. Instead, he had always planned to work for the family's printing business. "I just assumed as I got older, that's probably what I was going to do," Roth said. "I certainly had no intention of being a physician — it never even crossed my mind."

That is, until he got to college. At the University of Michigan in Ann Arbor, Roth took psychology and sociology courses as a first-year student, earning a near 4.0 grade point average by year's end. One of Roth's high school classmates, who was taking pre-med courses at another university, told Roth the only reason his grades were so good was because he was taking easy classes — nothing compared to the rigorous course work of a pre-med curriculum.

Roth, who wasn't particularly happy with a major in social sciences, took his friend's remark as a challenge. "I said, 'Well, I could be a pre-med, that's no problem,'" Roth recalled. The next semester, he signed up for chemistry, physics and biology.

That year, Roth obtained a work-study job in a psychiatry research laboratory, where he tested the effects of various anti-depressant medications on the behavior of mice. "Once I got into the research laboratory, I thought this is the life for me. Whether it was as a Ph.D. or an M.D./Ph.D., I knew where I was headed," Roth said.

During medical school, Roth considered a specialty in psychiatry, but changed his mind after a psychiatry clerk-



# Calendar

May 5-14



## Exhibitions

**"Master of Fine Arts II."** Features creations by master of fine arts students. Through May 8. Gallery of Art, upper gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. 935-5490.

**"Bachelor of Fine Arts."** Features creations by senior bachelor of fine arts students. (Opening: 5-7 p.m. May 13.) Through May 22. Gallery of Art, upper gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. 935-5490.

**"Paracelsus, Five Hundred Years."** Through July 15. Glaser Gallery, School of Medicine Library. Hours: 9 a.m.-9 p.m. weekdays; 1-5 p.m. weekends. 362-7080.

**"The Authenticated Word: Victorian Illustrated Books, 1820-1900."** Through July 1. Olin Library, Special Collections, level five. Hours: 8:30 a.m.-5 p.m. weekdays. 935-5495.

**"Core Show."** Features works of first-year and sophomore art students. Sponsored by the School of Fine Arts. Through May 22. Bixby Gallery, Bixby Hall. Hours: 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends. 935-6597.



## Lectures

### Thursday, May 5

**11:15 a.m. Social work seminar.** "Mental Health Service Delivery: The Managed Care Perspective," Peter A. Ambrose, director, Managed Mental Health Services, Blue Cross/Blue Shield of Missouri. Administrative Center, 1130 S. Hampton. 935-5687.

**Noon. Genetics seminar.** "Strand Exchange Protein 1 of Yeast; From DNA Recombination to Translation Control," Arlen Johnson, Dana-Farber Cancer Institute, Boston. Room 816 McDonnell Medical Sciences Bldg. 362-7072.

**12:15 p.m. School of Medicine 41st Alpha Omega Alpha Lecture.** "Educating Physicians for a Vocation, a Profession, a Calling ...?" S. Bruce Dowton, assoc. prof. of pediatrics and director, Division of Medical Genetics and assoc. dean for medical education. Clopton Aud., 4950 Children's Place.

**4 p.m. Biology and biomedical sciences student-organized seminar.** "The Arms Race Continues: Molecular and Community Level Study of Insects on Plants," Brian Farrell, asst. prof., Dept. of Environmental Population and Organismic Biology, U. of Colorado, Boulder. Room 322 Rebstock Hall. 935-6706.

**4 p.m. Chemistry seminar.** "Photochemistry in Layered Solids," Mark Thompson, Dept. of Chemistry, Princeton U., Princeton, N.J. Room 311 McMillen Lab. (Coffee: 3:40 p.m. outside Room 311.) 935-6530.

**4:30 p.m. Math colloquium.** "Prime Characteristic Techniques and the Study of Algebraic Varieties Defined Over the Complex Numbers," Karen Smith, prof. of mathematics, Purdue U., West Lafayette, Ind. Room 199 Cupples I Hall. (Tea: 4 p.m. in Room 200.) 935-6726.

### Friday, May 6

**9:15 a.m. Pediatric Grand Rounds.** "Retinoblastoma: Current Concepts and Management," Gregg T. Lueder, asst. prof., depts. of Ophthalmology and Visual Sciences and Pediatrics. Clopton Aud., 4950 Children's Place

**Noon. Cell biology and physiology seminar.** "Endocytosis and Membrane Traffic," Frederick R. Maxfield, Dept. of Pathology, Columbia U. College of Physicians and

Surgeons, New York. Room 423 McDonnell Medical Sciences Bldg. 362-6950.

**Noon. Cell biology thesis defense.** "Genetic Analysis of Protein N-Myristoylation in *Saccharomyces cerevisiae*," Donald R. Johnson, graduate student, Medical Sciences Training Program in Cell Biology. Philip Needleman Library, 3907 South Bldg.

**2 p.m. Plant biology thesis defense.** "Characterization of Two Tobamovirus Movement Proteins and Their Role in Host Range Determination," Csilla Fenczik, graduate student, Medical Sciences Training Program in Plant Biology. Room 321 Rebstock Hall.

**4 p.m. Anatomy and neurobiology seminar.** "PET and Lesion-behavior Studies of the Processing of Single Words," Steve Petersen, assoc. prof., Dept. of Anatomy and Neurobiology. Room 928 McDonnell Medical Sciences Bldg.

**4:30 p.m. Math colloquium.** "Definitions of Quasiconformality," Juha Heinonen, prof. of mathematics, U. of Michigan, Ann Arbor. Room 199 Cupples I Hall.

**6 and 8:30 p.m. Travel Lecture Series.** "Eastern Europe," Charles Hartman, travelogue producer. Graham Chapel. Cost: \$4.50 at the door. 935-5212.

### Saturday, May 7

**9 a.m. Saturday Morning Neural Sciences Seminar Series: MRN-Magnetic Resonance Neuroscience.** "Introduction to MR Spectroscopy (MRS)," Joseph Ackerman, research prof., Dept. of Medicine. Erlanger Aud., McDonnell Medical Sciences Bldg.

**4 p.m. Biomedical computing and engineering seminar.** "Three-dimensional Morphological Analysis Applied to Artificial Cranial Modification," Jim Cheverud, prof., Dept. of Anatomy and Neurobiology. Alumni Room, Old Shriners Hospital Bldg., 616 S. Euclid. 935-6164.

### Monday, May 9

**10 a.m. Molecular biophysics thesis defense.** "Bohr Effects of the Partially Ligated Intermediates of Adult Human Hemoglobin," Margaret A. Daugherty, graduate student, Molecular Biophysics Program. Room 2918 South Bldg.

**Noon. Neurology and neurological surgery research seminar.** "Lessons Learned From In Vivo Ischemia," Alastair M. Buchan, U. of Ottawa, Ontario, Canada. Schwarz Aud., First Floor Maternity Bldg.

**4 p.m. Biology seminar.** "Differences in Heterochromatic Regions of the *Drosophila melanogaster* Genome Are Revealed by P-element Inserts Containing Euchromatic Genes," Lori Wallrath, postdoctoral fellow, Dept. of Biology. Room 322 Rebstock Hall. 935-6837.

### Tuesday, May 10

**Noon. Genetics seminar.** "Rescuing RNA and Protein Sequences From the Twilight Zone," Sean Eddy, MRC Laboratory of Molecular Biology, Cambridge, England. Room 816 McDonnell Medical Sciences Bldg.

**5 p.m. Tumor genetics group seminar.** "Molecular Studies of Cervical Tumors," Daniela Gerhard, asst. prof., Dept. of Genetics, and Janet Rader, asst. prof., Dept. of Obstetrics and Gynecology. Room 228 Biotechnology Center, 4559 Scott Ave. 362-7149.

### Wednesday, May 11

**7:30 a.m. Obstetrics and Gynecology Grand Rounds.** "Cancer Prevention for the OB/GYN," Neil B. Rosenshein, assoc. prof. of gynecology and obstetrics, oncology and epidemiology, Johns Hopkins U., Baltimore. Clopton Aud., 4950 Children's Place.

**12:30 p.m. Neuroscience luncheon seminar.** "Using Neural Cell Lines to Understand the Biochemistry of Learning and Memory: Habituation and Potentiation," Paul T. Martin, postdoctoral fellow in anatomy and neurobiology. Room 816 McDonnell Medical Sciences Bldg. 362-2513.

**4 p.m. Biochemistry and molecular biophysics seminar.** "Designing Hemoglobin: A Model for Allosteric Proteins," Chien Ho, Dept. of Biological Sciences, Carnegie Mellon U., Pittsburgh. Cori Aud., 4565 McKinley Ave. 362-0261.

**4 p.m. Biology and biomedical sciences seminar.** The Lucille P. Markey Special Emphasis Pathway in Human Pathobiology Seminar. "The Pathway of Discovery in

Cystic Fibrosis," Michael Welsh, investigator, Howard Hughes Medical Institute and prof., depts. of Medicine, Physiology and Biophysics, U. of Iowa College of Medicine, Iowa City. Erlanger Aud., McDonnell Medical Sciences Bldg. 362-3363.

### Thursday, May 12

**Noon. Genetics seminar.** "A Regulator of rab GTPases in *Drosophila* Development," Clarissa M. Cheney, asst. prof., Dept. of Genetics. Room 816 McDonnell Medical Sciences Bldg. 362-7072.

**3 p.m. Molecular genetics thesis defense.** "Dissection of the Interactions That Allow *E. Coli* RNA Polymerase to Recognize a Multicomponent Pause Signal in the *His* Operon Leader Region," Cathleen Chan, graduate student, Molecular Genetics Program. Room 322 Rebstock Hall.

**4 p.m. Central Institute for the Deaf Research Seminar.** "Ears, Brains and Hearing Aids: Do We Know What We're Doing Yet?" Mead C. Killion, president, Etymotic Research Co., Elk Grove Village, Ill. Second Floor Aud., Clinical Sciences Research Bldg., 909 S. Taylor Ave. 652-3200, ext. 671.

**4 p.m. 18th Annual Mildred Trotter Lecture.** "Huntington's Disease: Genetics, Pathophysiology and Therapeutic Strategies," Anne Young, Harvard U., Cambridge, Mass. Moore Aud., 4580 Scott Ave.

**4:30 p.m. Math colloquium.** Title to be announced. Franz Pedit, prof. of mathematics, U. of Massachusetts, Amherst. Room 199 Cupples I Hall. (Tea: 4 p.m. in Room 200.) 935-6726.

### Friday, May 13

**9:15 a.m. Pediatric Grand Rounds.** "Neurofibromatosis Type I: More Than NF," David H. Gutmann, asst. prof., depts. of Neurology, Pediatrics and Genetics. Clopton Aud., 4950 Children's Place.

**Noon. Cell biology and physiology seminar.** "The Small GTPase Rab5 and Endocytosis," Guangpu Li, research assoc., Dept. of Cell Biology and Physiology. Room 423 McDonnell Medical Sciences Bldg. 362-6950.

**4 p.m. Anatomy and neurobiology seminar.** "The Interface Between Basic and Clinical Neuroscience Research: Opportunities and Bottlenecks," Ralph G. Dacey Jr., prof. and head, Dept. of Neurology and Neurological Surgery. Room 928 McDonnell Medical Sciences Bldg.

### Saturday, May 14

**9 a.m. Saturday Morning Neural Sciences Seminar Series: MRN-Magnetic Resonance Neuroscience.** "Fast MR Imaging and MRI of Acute Stroke," Weili Lin, instructor in radiology. Erlanger Aud., McDonnell Medical Sciences Bldg.



## Music

### Thursday, May 5

**8 p.m. Washington University Opera presentation.** Giacomo Puccini's "Suor Angelica" and scenes from "La Bohème" and "Turandot." Led by Jolly Stewart, director, Washington University Opera and teacher of applied music. Graham Chapel. For more info., call 935-5581.

### Saturday, May 7

**8 p.m. Early Music Ensemble concert.** "Alleluia, I Heard a Voice": Sacred Music in England From Taverner to Byrd," directed by Donna M. DiGrazia, conductor, Early Music Ensemble. Concert features the music of Taverner, Weekes, Cornysh, Sheppard, Byrd and Gibbons. Chapel of St. Timothy and St. Titus, Concordia Seminary, 801 DeMun Ave. 935-5574 or 721-5934.

### Sunday, May 8

**8 p.m. New Music Circle presents the Iliad Quartet.** Concert features quartet members James Emery on the guitar, Gerry Hemingway on percussion instruments, Michael Formanek on the bass guitar and

Marty Ehrlich on woodwind instruments. Sponsored by the Gallery of Art. Steinberg Hall Aud. Cost: \$10 for the general public; \$6 for senior citizens and students. 935-5490.



## Miscellany

### Thursday, May 5

**6-9 p.m. AIDS seminar.** "Metropolitan HIV/AIDS Information Night: \$3.5 million in AIDS Services and How to Access Them." Sponsored by the Ryan White Consortia of St. Louis; AIDS Clinical Trials Unit, School of Medicine; AIDS Vaccine Evaluation Unit, St. Louis U. School of Medicine, and St. Louis Effort for AIDS. Learning Resource Center, St. Louis U., 3554 Caroline St. To register, call 367-2382.

### Monday, May 9

**12:30 p.m. Society of Professors Emeriti lunch and tour.** This year's final meeting of the Society of Professors Emeriti will begin at the Missouri Historical Society Library and Collection Center. A tour will follow. Missouri Historical Society Library and Collection Center, 225 S. Skinker Blvd. Cost: \$5.95. 935-6391.

**7-10 p.m. Office of Continuing Medical Education seminar.** "Internal Medicine Review." The topic is rheumatology with Julian L. Ambrus, assoc. prof., depts. of Medicine and Pathology, and Leslie E. Kahl, asst. prof., Dept. of Medicine. Steinberg Amphitheatre, Jewish Hospital. For schedules and cost info., call 362-6893.

### Friday, May 13

**9 a.m.-5 p.m. Social Thought and Analysis conference.** "Legal Change and Cultural Pluralism," a multidisciplinary conference examining how societies with diverse populations are using and changing their legal systems. Sponsored by Committee on Social Thought and Analysis. Alumni House. 935-4860.

**7:30 p.m. Fine Arts Institute weekend workshop.** Stan Strembecki, assoc. prof. of art, will demonstrate techniques for photographing the nude. Workshop includes a slide lecture and lighting demonstration. Continues through May 15. Third Floor, Lewis Center, 721 Kingsland. Participants supply camera and film. Cost: \$145. 935-4643.

### Saturday, May 14

**8:30 a.m.-noon. Office of Continuing Medical Education seminar.** "Diagnosis and Management of Adult Sleep Disorders: A Practical Approach to a Multidisciplinary Field." Welcoming speech by seminar chair John W. Miller, asst. prof. of neurology and head, Section of Clinical Neurophysiology and director, Sleep Disorders Laboratory, School of Medicine. Adam's Mark Hotel, Fourth and Chestnut. For schedule, credit and cost info., call 362-6893.

## Calendar guidelines

Events sponsored by the University — its departments, schools, centers, organizations and its recognized student organizations — are published in the Calendar. All events are free and open to the public, unless otherwise noted.

Calendar submissions should state time, date, place, sponsor, title of event, name of speaker(s) and affiliation, and admission cost. Quality promotional photographs with descriptions are welcome. Send items to Judy Ruhland at Box 1070 (or via fax: 935-4259). Submission forms are available by calling 935-4926.

The deadline for all entries is noon Tuesday one week prior to publication. Late entries will not be printed. The Record is printed every Thursday during the school year, except holidays, and monthly during the summer. If you are uncertain about a deadline, holiday schedule, or any other information, please call 935-4926.



## Renowned performer teaches students to tap music within themselves

Some people might say that Imrat Khan is the Jimi Hendrix of classical Indian music because among sitar and surbahar players he has no parallel.

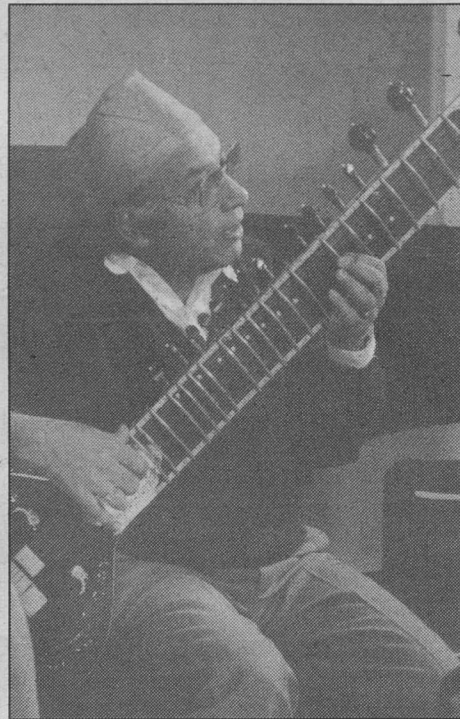
The sitar is a lute-like stringed instrument from India. The surbahar is a lower-toned string instrument that is related to the sitar like a cello is related to a violin, says Khan. Invented by Khan's great-grandfather, the surbahar is a rare instrument, difficult to make and difficult to play.

Even in his native India, a country that prizes tradition and heritage, Khan's pedigree is impressive. His family traces its origins through an unbroken line of celebrated musicians back to the 16th-century court of the great Moghul emperor Akbar.

A world-renowned performer and teacher, Khan has spent 35 years touring from Japan and India to London and New York. But for the last three years Khan has put down temporary roots in St. Louis while teaching at the Washington University Department of Music. Khan first came to St. Louis in 1990 on the invitation of Sangeetha, a local Indian music organization. During that visit, Khan met Jeffrey Kurtzman, Ph.D., professor of music and former chair of the department, who invited him to teach at the University, beginning in 1991. When Kurtzman stepped down as chair, the new chair Craig Monson, Ph.D., continued the relationship.

"Imrat Khan is a wonderful asset to the

department and to the University," said Monson, professor of music. "His artistry is comparable to that of, say, Isaac Stern or Itzhak Perlman in the Western tradition.



Imrat Khan

He also enjoys working with students at all levels, even relative beginners. He is a delightfully warm and encouraging person, who seems to find an infectious pleasure in teaching and learning."

Khan is equally pleased with the arrangement. "I have played almost all the major music festivals and great halls of the world," Khan said, "and I wanted to come to some very good university and teach. Since coming to Washington University I have also discovered St. Louis is wonderful. From here I can go direct to almost anywhere in the world for my concerts, yet the city is very quiet and easy to get around."

Although he continues to play concerts around the world, Khan primarily teaches University undergraduates in weekly three- or four-hour sessions. His classes over the years have grown dramatically. In the first year, a small handful of students enrolled. This year he taught 27 students in his spring semester course "North Indian Sitar Music: Practice and Theory."

For Khan, music is not simply music, it is the embodiment of an entire philosophy and way of life, so his classes include not just music, but philosophy, poetry, singing, history, performance and jokes.

"I entertain them!" Khan said gleefully of his approach with students. On a more serious note, he added, "What I like to teach is the philosophy of life and at the same time I talk about musicians and Indian culture. I also teach them the art of improvisation, which is the main value of Indian music and why everyone is interested in learning it. Then I also teach them the basic rules of Indian music, like how notes are treated, what are the names of the

rhythms and what are the names of the ragas (a group of traditional melodic patterns in Indian music).

"I would like my students to discover that they have music in them which, if they know how to tap it, will be like a treasure. Everybody is born with this treasure of music but teachers have to give them the key."

Khan works hard to unlock that treasure for many students. In addition to teaching at Washington University and Webster University, he has numerous private students, some of whom travel from Japan, Paris and New York to learn.

Senior Melissa Goldman said, "I took the class because I love music, and it was great to learn about another type of music. Watching him play was mesmerizing; he is an incredibly talented musician."

Although among Westerners Khan is not exactly a household name, his fans include such international music figures as former Beatle George Harrison, guitar and lute player Julian Breen, violinist Yehudi Menuhin and cellist Mstislav Rostropovich.

"These people, all of whom are my friends, have acknowledged the importance of Indian music, which has helped promote interest in it," said Khan.

Still, Khan noted, "a lot of people don't understand about India. The East has lots of access to the West, through video, audio, radio, Western media and education, but sometimes I feel that the West should know more about the East." — Debby Aronson

## University career offices to expand parent, alumni involvement in advising, placement — from page 1

students' perspectives much better."

The college also is investigating the possibility of four-year "mentor" relationships between faculty advisers and students. In addition, the department is considering better ways of distributing information about advising to students and faculty.

### Career placement opportunities

Kisker agreed with parents' suggestions that academic and career advising be linked earlier in a student's education. Parental concerns about their children's careers often escalate with the de-escalation of the economy, he noted. Today's tight economy is forcing many potential employers to change their hiring practices, which, in turn, is forcing universities to change their systems of career advising and placement.

"We have done a comprehensive comparison with 20 other universities and, according to national norms, our career counseling and placement services look pretty good," Kisker said. "Everyone seems to be in agreement that changes brought about by the economy are not simply another trend or cycle but are here to stay."

"There has been a change in the way corporate America is doing business," Kisker added. "We have seen declines in on-campus recruiting. Major corporations are downsizing. Future growth will be in small- to medium-sized companies. Recruiters want to see graduates with more experience — through work, internships, or cooperatives. In many cases, our graduates are competing with middle managers for the same jobs."

As a result, career advisers at Washington University are discussing ways to increase opportunities for students to gain much-needed experience before graduation, as well as continued emphasis on written and verbal communication skills. In addition, career advisers are putting a greater emphasis on students learning how to direct their own job search while recognizing that the University will be called upon to provide lifelong placement assistance. Due to the

increasing globalization of the world marketplace, there is a new emphasis on students learning language skills and participating in overseas study opportunities, Kisker said.

In keeping with campuswide efforts to "do better with less," the career advising and placement offices are investigating ways to make better use of existing resources. Parents and alumni are two existing sources that could be tapped for career advice and new job prospects, Kisker said.

Future plans call for better coordination among the University's three career placement offices and Kisker said cooperation may soon replace competition as career placement offices at major universities start sharing data bases and listings of job prospects.

### Campus security: more visible

In the past, the Washington University Police Department has played a behind-the-scenes role in ensuring that the campus is safe for students, faculty, staff and visitors. In response to increasing crime rates nationally and in the St. Louis area, however, campus police recently have adopted a new approach.

"In the past, the police department has been a silent organization. Today's environment doesn't allow that," said Taylor, chief of the University Police Department. "We felt the need to be more visible so people feel that there is a patrolling force on campus."

As a result, the department is considering adopting a zone approach to campus security.

"It would be like the old 'cop on the beat' approach where individual officers would become more familiar with the people and environments of their areas. We have a prototype of this in the residence hall area and it has been highly successful," Taylor said.

In addition to increasing the overall lighting and number of blue lights on campus to create "a blanket of light with no dark pockets," Taylor said the University Police

Department is working with the Department of Facilities Planning and Management to develop a landscaping plan that promotes safety without diminishing the beauty of the campus.

"This is generally a safe campus. Historically, our biggest problem has been thefts of small items," Taylor said. "Society has changed. We are not an isolated campus, we have no fences or walls. As a result, we have felt a need for change."

### Food service: healthier choices

Some parents also expressed concern that their children were not eating as well as they should. To keep up with increasing emphasis on more nutritious food, Marriott Food Services has instituted several new programs that focus attention on healthy eating habits.

One popular addition is the "Wellness Line" that provides healthy alternatives to the regular menu. For example, chicken that

might be served fried in the regular line is served broiled in the Wellness Line. In addition, Marriott provides a nutritional analysis of food items included on the menu, regular newsletters featuring tips for healthy eating, and a vegetarian menu.

"We try to give the students as much information as we can to allow them to make their own decisions about eating healthy," explained Ruhlman. "In the Wellness guides, they can look up the nutritional analysis of peanut butter, jelly, cream cheese, whatever is available and make choices from the healthy options."

"We are fortunate to have supportive parents who are willing to give their time to help us make Washington University a better place," said Provost Edward S. Macias, Ph.D. "The improvements we have made in response to their focus groups are part of the process to improve our University for students."

## Sports

### Berens, Sullivan named athletes of the year

At Washington University's recent W Club Awards Banquet, seniors Rich Berens, Chesterfield, and Amy Sullivan, St. Louis, were named this year's Distinguished Athletes of the Year.

An All-American singles and doubles tennis player, Berens has become Washington University's top NCAA Division III performer in school history. Prior to the 1994 NCAA championships, Berens touted a career singles record of 52-14 and a career doubles mark of 42-18.



Rich Berens

Carrying a national ranking of number four to this month's NCAA championships, Berens is the 1993 recipient of the ITA/Penn Player to Watch — the individual displaying the most potential to capture the 1994 NCAA title. An Academic All-American candidate, Berens garnered UAA Most Valuable Player honors this year.

A two-time GTE/CoSIDA Academic All-American Volleyball Player of the Year, Sullivan has distinguished herself in all phases of campus life — athletics, academics and community service. The two-time All-American helped Washing-

ton University capture three consecutive NCAA championships and register a



Amy Sullivan

three-year record of 126-6. Sullivan, the all-time NCAA Division III leader in career service aces with 333, was honored by the NCAA as a 1993 Top Six fall recipient — a rare honor for a Division III athlete — and earned the Woody Hayes National Scholar-Athlete Award. Helping the Bears win an NCAA all-division record 59 consecutive matches, she ranks in virtually every career statistical category at Washington University.

### Baseball

**Last Week:** Washington 10, McKendree 0; Washington 10, Maryville 4

**This Week:** Season Complete

**Season Record:** 21-14-1

With two victories in the season's final week, Washington University notched its seventh 20-win season since 1982. The Bears won seven of their final nine games.

## Parents praise University's balance — from page 1

Finally, parents cited the University's breadth, balance and diversity of growth opportunities in academics, extracurricular and social activities. A number of parents commented that students are given the chance to grow, or "blossom," at Washington University. As one parent said, "My daughter, a science major, worked as a stage manager in the department and had a great experience. The opportunities that exist are incredible — they make Washington University."

### Areas cited for improvement

Some parents expressed concern about faculty and academic advising. Parents said

they wished advisers would be more proactive in reaching out to their advisees. Career planning and placement also was mentioned as a source of disappointment to some. Parents said they wanted the University to provide students with career options earlier so career implications could be integrated into academic decision-making. As one parent said, "It's a tough job market now. We know most of the jobs are going to come from small business. What is Washington University going to do to reach where the jobs are?"

Some parents also commented on the food and security on campus, both common concerns at universities nationwide.



## Conference explores cultural pluralism

Scholars in several fields will examine how societies with diverse populations are using and changing their legal systems in a conference at Washington University May 13-14. "Legal Change and Cultural Pluralism" is sponsored by the Committee on Social Thought and Analysis and is free and open to the public.

"As new groups challenge the primacy of nation-states and of secularist legal structures, we need to better understand the ways that existing legal systems manage cultural, religious and ethnic diversity," said John Bowen, Ph.D., chair of the Committee on Social Thought and Analysis and associate professor of anthropology. "We also need to re-examine the normative bases on which we take stands — and lecture others — about human rights and tolerance."

Recent immigration patterns in the United States and Europe have highlighted pluralisms of language, religions and social norms. These developments have led scholars to revise previously static notions of legal pluralism, which are giving way to dynamic studies of how people interpret, use and change systems of civil, religious and "customary" law.

Scholars in law, anthropology, politics and philosophy are questioning the idea that only individuals — not groups — have rights, as well as the idea that law and culture can be kept distinct.

Leila Sadat-Wexler, LL.M., professor of law, will discuss "Cultural Pluralism in the European Community." Wexler, who holds a law degree from the University of Paris-Sorbonne, as well as Columbia University and Tulane, will focus on linguistic and cultural diversity issues influencing European integration. One example is proposed legislation prohibiting the use of English words, such as "software" and "air bags," in public speech and advertising in France.

"This French attempt to legislate language conflicts with the whole idea of integration in the European Community," Wexler said. "As integration goes deeper and deeper into the community, it exerts an inexorable force on member nations. At the same time, the proposed French legislation conflicts with the push for increased regional autonomy, linguistic and otherwise. We can expect more brush fires on these cultural issues."

Other speakers and their topics are: Jack Donnelly, professor of international studies at the University of Denver, "Toleration, Human Rights and Cultural Relativism"; Marc Galanter, professor of law and South Asian studies at the University of Wisconsin, "Emerging Themes in 'Pluralism' Research"; Robert Hayden, professor of anthropology at the University of Pittsburgh, "Citizenship Laws and Concepts of Democracy in Europe and the United States"; Sally Merry, professor of anthropology at Wellesley College, "Unsettling the Primacy of Nation-state Law: Exploring Popular Justice and Indigenous Rights Tribunals."

The conference will be held from 9 a.m. to 5 p.m. both days in the Alumni House. For more information, call 935-4860.



Joyce M. Kniepkamp, senior project manager in Information Systems, with her daughter, Kristen, 10, during "Take Your Daughters to Work Day" April 28.

## Daughters join parents in offices, classrooms, labs — from page 1

is a way of compensating for the fact that boys traditionally have been more likely to learn business from their fathers," Power said.

Although many women choose to work for personal satisfaction, the decision to work is an economic necessity. Since 1950, about a million women a year have joined the labor force. According to a study by Martha N. Ozawa, Ph.D., Bettie Bofinger Brown Professor of Social Policy at the George Warren Brown School of Social Work, income from wives' earnings allows some eight million American families to stay above the poverty line, and, without those earnings, the poverty rate of American families would double.

Just as many fathers as mothers participated in "Take Your Daughters to Work Day" at Washington University. Tom Evola, associate director of computing at the John M. Olin School of Business, first took his daughter, Maria, 9, to the botany lab, where she said she "looked through a microscope at lilies, beet stems and a yellow flower." From there, father and daughter installed a computer terminal at the business school and logged on to a computerized simulation of the stock market.

"I am trying to teach her the role of the University; its importance to society in terms of education and research. In the business school, she saw people researching the stock market. In the botany lab, she saw people researching cells," Evola said, admitting that Maria's 6-year-old brother was a "little envious" when left at home that day.

"He wanted to come. Now he gets a mom and son day at home," Evola said. "I wonder if it should be a 'Bring Your Children to Work Day.' I understand why in many cases

it is especially important for daughters. In our family, it's not an issue. As a young woman, Maria is well aware of her potential. We encourage that."

After a day in computer and botany labs, does Maria want to be a scientist or computer technician when she grows up?

"No. I want to be an equestrian," she said, "but it was really neat."

Shirley Baker, dean of University libraries, organized the event at Washington University. In addition to the picnic, daughters

received T-shirts and had the opportunity to attend an afternoon movie.

"It is hard to guess how many daughters we had on campus but I was pleased that about 35 came to the picnic," Baker said. "It was interesting to see parents participate from so many different departments. The girls seemed to find the experience interesting and rewarding." Next year, Baker said she plans to form a committee of interested mothers and fathers to help plan the event.

— Susannah Webb

## Roberts offers unusual look at free trade

Americans want to know: Should we protect key American industries from foreign competition? Does buying American save American jobs? Is it un-American to buy a foreign car? Is Japan our economic enemy?

Russell Roberts, Ph.D., offers an unusual look at these questions in his new book, *The Choice: A Fable of Free Trade and Protectionism*, published by Prentice Hall. He argues:

- When Americans buy a foreign car, they create American jobs — just not in the auto industry.
- Threatening Japan with trade sanctions to encourage imports of American products will backfire and is wrong.
- Trade with Japan and other countries creates better jobs for Americans.
- Self-sufficiency is the road to poverty.

"We are bombarded with horror stories about jobs lost to international trade," Roberts said. "It's time for Americans — even those with no background in economics — to understand the full story."

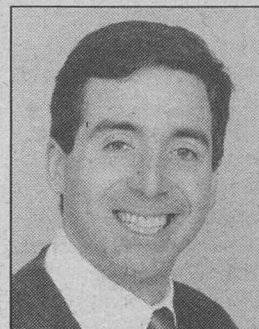
Roberts teaches economics and is director of the Management Center at the John M. Olin School of Business.

The Wall Street Journal has called "The Choice" a "heartwarming tale you won't soon forget" and "an oddball parody" of Frank Capra's classic film, "It's a Wonderful Life."

"The Choice" is the story of Ed

Johnson, an American television manufacturer in the 1960s who wants protection from Japanese competition. David Ricardo, a 19th-century economist, father of free trade, and angel looking for his wings, comes back to life to convince Ed that free trade is the path to prosperity.

From 1960, the duo travel to the 1990s to see how the country would fare



Russell Roberts

under both free trade and self-sufficiency. Ed discovers that the choice between free trade and protectionism will affect the country for generations. The reader gains a fresh perspective on the major international trade issues facing America.

As Ricardo said in the book, "The choice America faces is not between more jobs or fewer jobs. The real choice is between a static world and a dynamic world. A world encouraging people to dream and encouraging them to acquire the skills to make those dreams come true and a world of encouraging people to be content with what they have and to dream less."

## Lee Liberman receives Eliot Society award

Lee M. Liberman, chairman of the board at Laclede Gas Co. and past chair and



Lee M. Liberman

current vice chair of Washington University's Board of Trustees, was presented with the prestigious William Greenleaf Eliot Society Award last week at the society's annual banquet.

He received the honor for his "special dedication to the wise management of the University's re-

sources and his earnest advocacy of the University's important role in the life of the community."

Liberman received the silver sculpture, titled "The Search," which represents the "University's endless quest for truth and knowledge." The sculpture was created by Heikki Seppa, professor emeritus in the School of Fine Arts.

The William Greenleaf Eliot Society was formed in 1967 and is composed of local and national civic leaders dedicated to welfare and future development of Washington University.

Liberman has been an active civic leader in many business, charitable and cultural activities.

## Campus Watch

The following incidents were reported to the Hilltop Campus Police Department April 25-May 1. Readers with information that could assist the investigation of these incidents are urged to call 935-5555. This list is provided as a public service to promote campus safety.

### April 25

12:42 a.m. — A student's bicycle was reported stolen from the bicycle rack north of Lee Residence Hall sometime between 2 a.m. and 11:55 p.m. April 24. 7:52 p.m. — A student's purse was reported stolen from The Gargoyle sometime between 10 p.m. April 24 and 2 p.m. April 25. 7:53 p.m. — A visitor's briefcase was reported stolen from Room 117 Simon Hall sometime between 5 and 6:45 p.m.

### April 27

2 a.m. — An incident of indecent exposure was reported on the fifth floor of Olin Library. The exact time is unknown. 8:57 a.m. — A 30-pound drum of Freon belonging to the Department of Facilities Planning and Management was reported stolen from Room 157 Busch Lab sometime between April 14 and 18. 10:53 a.m. — Eight Washington University caps were reported stolen from the lower level of the Campus Bookstore some-

time between 10:45 and 10:53 a.m. A subject has been arrested in the incident.

### April 28

1:09 p.m. — A student's mountain bicycle was reported stolen from the west side of Wohl Center sometime between 6 p.m. April 24 and 9 p.m. April 25. 2:07 p.m. — A compact disc was reported stolen from the main level of the Campus Bookstore at 2 p.m. A student has been arrested in the incident and will be referred to the judicial administrator.

### April 29

11:12 p.m. — The wooden arm of the mechanical gate at the entrance to the visitor's parking lot west of Mallinckrodt Center was reported stolen.

Two incidents of damage to University property and two incidents of petty theft also were reported last week.



# For The Record

*For The Record contains news about a wide variety of faculty, student and staff scholarly and professional activities.*

## Of note

**Barry Ames**, Ph.D., professor of political science, was selected as a 1994-95 fellow by the Woodrow Wilson International Center for Scholars. Ames will continue writing a book about the crisis of governance in Brazil while at the center based in Washington, D.C. Ames was one of 32 fellows chosen from 819 applicants from 82 countries. ...

**Jeffrey M. Frahm**, a graduate student in architecture, was awarded third place in the Forum/America design competition sponsored by Learn Television. The competition called for a design using electronic media that would serve as a forum for speech. Frahm won \$250 and a plaque for his design. ...

**Daniel Herbst**, director of the Health Awareness Program in student affairs on the Hilltop Campus, completed the Professional in Residence Program at the Betty Ford Center in Rancho Mirage, Calif. The program offered intensive training for university professionals who wanted to learn about substance abuse issues. It was sponsored by the National Collegiate Athletic Association and ABC Sports. ...

**Nilesh L. Jain**, graduate research assistant in the Division of Medical Informatics and a doctoral student in computer science, was chosen to participate in the 1994 Summer Institute in Japan for American graduate students in science and engineering. As a National Institutes of Health-sponsored participant, he will spend eight weeks conducting research in the Department of Radiotherapy at the National Cancer Center Hospital in Tokyo. ...

**Larry Kindbom**, head football coach, was the first recipient of the Eddie Cochems Award for his contributions to amateur football in the St. Louis area. He received the honor during the second annual National Football Foundation and College Hall of Fame Banquet held in St. Louis. ...

**Douglas M. Lublin**, M.D., Ph.D., assistant professor of pathology and of internal medicine, received a \$300,000

three-year grant from the American Cancer Society for a project on "Cell Activation Through Lipid-anchored Proteins and Src-family Kinases." ...

**Timothy L. Ratliff**, Ph.D., research associate professor of surgery and research assistant professor of pathology, received a \$371,785 three-year grant from the National Institute of Diabetes and Digestive and Kidney Diseases for a project on "Antigen Stimulation of Bladder Inflammation." ...

**Michel Ter-Pogossian**, Ph.D., professor of radiation sciences at the School of Medicine's Mallinckrodt Institute of Radiology, received the Distinguished Scientist Award from the Alliance for the Mentally Ill's St. Louis chapter.

## Speaking of

**Umashanker Sampath**, Ph.D., research associate in chemistry, spoke on "Sequence-specific Cleavage of Ribonucleic Acid by Synthetic Ribozymes" at the American Chemical Society's national meeting held in San Diego. ...

During a symposium on "Sensorimotor Function of the Hand: Mechanics and Control" held in Ticino, Switzerland, **Marc H. Schieber**, M.D., Ph.D., assistant professor of neurology and of anatomy and neurobiology, spoke on "Individuation of Finger Movements." ...

**Michael Valente**, Ph.D., associate clinical professor of otolaryngology (audiology), delivered a presentation on "Methods to Improve User Satisfaction With Hearing Aids" at the New York Speech-Language-Hearing Association's meeting held in Kiamesha Lake, N.Y.

## On assignment

Three students have been selected to serve as 1994-95 student representatives to the **Washington University Board of Trustees**. They are **Roland A. Glean**, a doctoral candidate in political science, the graduate student representative, and juniors **Michael G. Rodman** and **Adam L. Stanley**, the undergraduate representatives. ...

**Warren H. White**, Ph.D., senior research associate in chemistry, was ap-

pointed to the Dallas-Fort Worth Winter Haze Steering Committee, which is overseeing a study of emissions in that area.

## To press

**Su-Li Cheng**, Ph.D., and **Leonard Rifas**, both instructors in medicine in the Division of Bone and Mineral Diseases, were the main authors of an article published in the *Endocrinology* journal. The article was titled "Expression of Metallo-proteinases and Tissue Inhibitor Metallo-proteinases in Human Osteoblast-like Cells: Differentiation Is Associated With Repression of Metallo-proteinase Biosynthesis." They wrote the article with **Louis V. Avioli**, M.D., Sidney M. and Stella Shoenberg Professor of Medicine and director of the division, **Howard G. Welgus**, M.D., professor of medicine, and two others. ...

**William H. Gass**, Ph.D., David May Distinguished University Professor in the Humanities and director of the International Writers Center, wrote an essay on "The Art of Self: Autobiography in an Age of Narcissism." The article appears in the May 1994 issue of *Harper's Magazine*. ...

Two poems written by **Carter Revard**, Ph.D., professor of English, are reprinted in

the second edition of Norton anthology's *New Worlds of Literature* (1994). The poems are titled "Driving in Oklahoma" and "Discovery of the New World." An essay on "Discovery of the New World" also appears in the anthology.

## Etc.

A video by **Van McElwee**, lecturer in performing arts, was screened at Festival Video de Gentilly in France. The piece is titled "Space-time Loops: Cityscape." His videos titled "Refraction" and "Reconstruction" were cablecast in France. ...

Lyric tenor **Daniel A. Pickett**, library technical assistant in Olin Library, sang in the April 29-30 performances of J. S. Bach's "Passion According to St. Matthew" held at Southern Illinois University at Edwardsville.

## Guidelines for submitting copy:

Send your full name, complete title, department, phone number and highest-earned degree, along with a typed description of your noteworthy activity to For The Record, c/o Carolyn Sanford, Campus Box 1070, or p72245cs@wuvmd.wustl.edu. Items must not exceed 75 words. For information, call Sanford at 935-5293.

## Alumni honored at Olin ceremony

The John M. Olin School of Business honored four distinguished alumni and the Dean's Medal recipient during a recent awards dinner held at the Ritz-Carlton Hotel in Clayton.

Alvin J. Siteman, chair of Mark Twain Bancshares Inc. in St. Louis, is the Dean's Medal recipient. The medal is presented to special friends whose dedication and service to the Olin School have been exceptional.

Siteman has been a generous and active member of the Washington University community. He established the Mark Twain Scholars program at the school. He is a lifetime member of the Eliot Society and for five years served on the Board of Trustee's Olin Challenge Capital Gifts Committee. He also was a member of the Business School Task Force. In 1985 Siteman and his wife, Ruth, endowed a chair in marketing at the school in memory of Siteman's father, Philip L. Siteman, founder of Site Oil Co. and a graduate of the School of Engineering.

The business alumni awards are presented annually to graduates of the school who have attained distinction in their careers. Recipients are selected on the basis of leadership, progressive thinking, high standards, uncompromising integrity, commitment, courage and confidence.

The Distinguished Alumni Award recipients for 1994 are James H. Hance Jr., Robin E. Hernreich, E. Desmond Lee and Cecil Ursprung. Hance, who received an MBA in 1968, is vice chair and chief financial officer of NationsBank Corp. in Charlotte, N.C. Hernreich, who received a bachelor's degree in liberal arts and an MBA, both in 1967, is an entrepreneur.

Lee, who received a bachelor's degree in business administration in 1940, is the founder of the Lee/Rowan Co. in St. Louis. Ursprung, who received an MBA in 1968, is president and chief executive officer of Reflexite Corp. in New Britain, Conn.

Hance joined NCNB Corp. in 1987. He was an integral player in the 1991 merger of NCNB Corp. and C&S/Sovran, together forming NationsBank Corp. NationsBank is the third largest bank holding company in the country.

Hernreich entered the media business as a general manager of a Hot Springs, Ark., radio station. He built Sigma Broadcasting with his father, eventually owning seven radio and television stations in the state. He was one of the original 11 members of the Bill Clinton for President National Finance Committee. He provided the Hernreich Endowed Chair in Business and Economics in 1989. Hernreich received the Robert S. Brookings award from the Board of Trustees in 1991.

Lee and his classmate John Rowan persuaded their fathers in 1939 to buy a patent on a wire trouser creaser and the Lee/Rowan company began. While Lee was chair of the company, Lee/Rowan became the largest manufacturer of metal closet and organizational products in the world. Lee sold the company in 1993 and has been active in community work.

Ursprung joined Reflexite in 1983 as president. In 1992 the company's outstanding performance led Inc. magazine to name Ursprung and all the employee/owners of the company "Entrepreneurs of the Year." Reflexite makes reflective sheeting used in highway road signs.

## Winners of Fulbright Scholarships announced

Ten students, two faculty members and an alumnus have been awarded Fulbright Scholarships to study abroad during the 1994-95 academic year. In addition, a graduate student has received a scholarship from the German Academic Exchange Service (DAAD).

Fulbright Scholarships pay travel expenses and a stipend to approximately 1,800 college students and faculty each year, allowing them to spend an academic year studying or conducting research in another country. DAAD provides a stipend, round-trip air travel to Germany, tuition and a fee waiver at a host German university, as well as a small additional allowance for books and possible language study at a Goethe Institute.

Five undergraduates and four graduate students have won the Fulbright Scholarships. The undergraduates, all seniors, and their area and location of study are: Paul Dillinger, who will study fine arts at the Domus Academy in Milan, Italy; Patrick Garlinger, who will teach English in France; Alexandra Johnston, who will travel to Japan to study the psychological effects of studying abroad on Japanese children; Tony Leong, who will conduct biological research in Germany; and Anita Tripathi, who will study political science in Germany. Leong and Tripathi received their Fulbright Scholarships through DAAD. Senior Joyanna Wendt has been named an alternate. In addition, Thomas Ahleman, a 1993 alumnus, received a Fulbright to study the evolution of public space in Finland at the Helsinki Institute of Technology.

The graduate students who have been named Fulbright Scholars are: Margaret Brown, a doctoral candidate in anthropology, who will study the social and political changes that accompany land reform

in rural Madagascar; James Cantarella, a master's degree candidate in comparative literature, who will study early 20th-century German cinema and popular culture; Angela Gulielmetti, a doctoral candidate in German, who also will travel to Germany to study 19th-century German literature; and Jim Railey, a doctoral candidate in anthropology, who will study in the People's Republic of China. Railey, who received a Fulbright-Hays Scholarship, will conduct excavations at three sites and will study changing demographic and settlement patterns from the early Neolithic era to the early Bronze Age. Cantarella and Gulielmetti received their Fulbright Scholarships through DAAD.

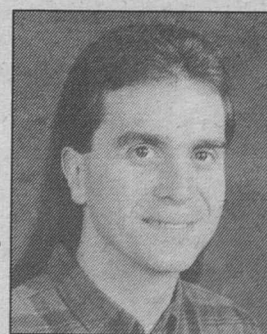
The alternates for the Fulbright Scholarships are Andrea Schokker, who will receive a master's degree in civil engineering in May, and Myron Shekelle, a doctoral candidate in anthropology. The DAAD recipient is Eugene Gagliano, a doctoral student in German, who will study German literature at the Freie University in Berlin.

The two faculty Fulbright Scholarship winners are: Mark Manary, M.D., assistant professor of pediatrics, and Mark Kornbluh, Ph.D., assistant professor of history. Manary will teach nutrition at the Medical College of Malawi, which is located in southeastern Africa. He also will focus on the care of malnourished children and the diagnosis and treatment of acute lower respiratory infections. Kornbluh was invited to teach history in the American Studies Program at the University of Hong Kong. He declined to accept the scholarship because he has accepted a position as assistant professor of history at Michigan State University in East Lansing this fall.

## Campus Authors

The following is a recent release available at the Campus Bookstore in Mallinckrodt Center on the Hilltop Campus or at the Washington University Medical Bookstore in the Olin Residence Hall. For more information, call 935-5500 (Hilltop Campus) or 362-3240 (School of Medicine).

*When Children Write: Critical Re-visions of the Writing Workshop* is the title of a new book by **Timothy J. Lensmire**, Ph.D., assistant professor of education. In the book, he describes his year teaching writing to third-graders in a public school classroom. Lensmire pictured his student-writers as writing workshop advocates would have them be: industrious, open, helpful to classmates and anxious that others hear their voice. But the author discovered that children are not "romantic, innocent little beings" as some have portrayed them. At times he found that children were petty, unkind, prejudiced and selfish. In other words, they reflected the problems, shortcomings and complexities of adult American society. Lensmire's reality differed greatly from his expectations. As with many constructive teaching experiences, the teacher learned while he taught the students. (Teachers College Press, New York, N.Y.)



Timothy J. Lensmire



# Opportunities & personnel news

## Hilltop Campus

The following is a list of positions available on the Hilltop Campus. Information regarding these and other positions may be obtained in the Office of Human Resources, Room 126 North Brookings Hall, or by calling 935-5990. Note: All positions require three letters of recommendation.

### Programmer/Analyst III

940107. *Computing and Communications*. Requirements: Bachelor's degree; good language and people skills; ability to work with minimal supervision; ability to learn quickly and adapt to new circumstances; experience with use and management of desktop computers; knowledge of desktop data base technology in a client/server environment highly desired; familiarity with DOS, Macintosh systems; knowledge of Novell, Appletalk, Windows and TCP/IP networking highly desired. Resume required.

### Administrative Assistant

940198. *Medical Alumni and Development Programs*. Requirements: Some college; maturity, judgment and diplomacy; excellent communication skills, both verbal and written; ability to communicate cordially and effectively with public constituencies, including deans, department heads, division chiefs, and senior faculty and administrators; ability to deal with confidential information in a responsible and professional manner; ability to balance and prioritize diverse assignments; three years of general office experience preferred; excellent writing and proofreading skills; proficiency with personal computer software, such as Microsoft Word for the Macintosh, Filemaker Pro, Lotus 1-2-3 or Microsoft Excel; typing 45 wpm with accuracy. Clerical tests required.

### Departmental Secretary

940201. *Department of Philosophy*. Requirements: High school graduate; typing 50 wpm with accuracy. Duties: Type occasional correspondence for faculty members; receive telephone calls and personal callers for the department; answer routine inquiries; type the semester course listings for philosophy department and do preliminary schedule for the days, times and rooms for each course; maintain and operate copying equipment and postage meter; mail graduate school applications and maintain files of students applying for admission; requisition supplies from central stores; copy and mail placement applications; establish, maintain and revise departmental files. Clerical tests required.

### Communications Technician I

940202. *Communications Services*. Requirements: High school graduate, some college preferred; training and/or experience in concepts of operation and maintenance of communications equipment; strenuous work and heavy lifting; flexible hours and overtime required; use of personal vehicle required with mileage reimbursement. Resume required.

### Administrative Assistant III

940206. *Performing Arts*. Requirements: Bachelor's degree, master's degree preferred. Duties: Administer departmental budget, responsible for all accounting functions, purchasing and allocations; serve as producer for all performing arts department productions; appoint, hire and write job descriptions for work/study students; responsible for on-campus recruiting for prospective first-year students; administrator of summer theatre in London program; process payroll and maintain payroll records; serve as undergraduate adviser for drama majors (as needed); administer arts management internships; administer external rentals of facilities (studios, classrooms); schedule and supervise musical accompanists. Clerical tests required.

### Administrative Assistant

940212. *Board of Trustees*. Requirements: Some college; typing 50 wpm with accuracy; efficient in word processing and data processing; creative in using and improving existing lists and forms, as well as devising new ones;

enjoy bookkeeping, both keeping track of budgets and expenses and preparing reports for the Board of Trustees account; skilled in proofing minutes and reports; appreciate need for accuracy, even in routine things; interested in maintaining an organized filing system for efficient retrieval; pleasant with fellow workers and external constituencies on the phone; willing to work occasionally outside of office hours for setting up meetings. Clerical tests required.

### PC Systems Manager

940216. *Engineering Computer Lab*. Requirements: Certificate or associate's degree, bachelor's degree preferred. Duties: File server management; personal computer system management; software evaluation and installation; personal computer system troubleshooting, hardware and software problems; provide user training and support on system and application software; programming; print server management. Resume required.

### Lab Technician

940219. *Biology*. Requirements: Bachelor's degree; responsible, independent; willing to be trained in plant genetics, bacteriology and molecular biology. Resume required.

### Reference Assistant

940220. *Olin Library*. Requirements: Four years of college, degree preferred; library public service experience with courses in librarianship desirable; ability to respond to the public in a helpful and courteous manner; ability to work independently with minimum supervision; ability to organize work and to handle detailed work with accuracy; typing 35 wpm with accuracy; ability to work under pressure; some experience with microcomputers, especially word processing; ability to adjust to a fluctuating academic year schedule, which includes evening and weekend hours. Clerical tests required.

### Researcher

940235. *Development Services*. Requirements: Bachelor's degree; liberal arts background preferred; strong research and writing skills; typing 35 wpm with accuracy. Resume required.

### Secretary, Part-time

940236. *Nursery School*. Requirements: High school graduate, some college preferred; ability to relate well with young children and parents; some hours needed in June and July (negotiable); knowledge of FIS or ability to learn; typing 40 wpm with accuracy. Clerical tests required.

### Assistant Director/Teacher Supervisor

940237. *Nursery School*. Requirements: Degree in education, child development or related field; teaching experience with children ages 3 to 5; experience in formative supervision of teachers and student teachers preferred; an interest in teachers as researchers desired. Resume required.

### Departmental Secretary

940239. *Alumni and Development Programs*. Requirements: Certificate or associate's degree; strong background in personal computing; excellent verbal and written skills; pleasant; professional manner with co-workers, volunteers, vendors; ability to handle multiple tasks in an organized, accurate and timely manner; ability to work extra hours if necessary; typing 50 wpm with accuracy. Clerical tests required.

### Coordinator of Student Activities

940240. *Student Activities*. Requirements: Bachelor's degree, master's degree preferred; student group advising, event management, problem-solving. Duties: Work with other University departments to develop a comprehensive multicultural program, addressing the needs of minority students and educating the total population. Resume required.

### Operation Clerk I, Part-time

940241. *Computing and Communications*. Requirements: High school graduate; good physical health (able to safely handle a loaded two-wheel dolly up and down stairs); willingness to work required extra hours, weekends and shift changes. Scheduled work week will be Tuesdays through Saturdays. Application required.

### Mail Carrier, Part-time

940242. *Campus Post Office*. Requirements: High school graduate; capable of lifting heavy packages, working outside in all kinds of weather, going up and down stairs during delivery of mail; driver's license with safe driving record; must pass University Health Service physical exam. Application required.

### Technical Sales Specialist

940243. *Campus Stores*. Requirements: Some college, bachelor's degree preferred; knowledge of personal computers and popular software; experience using a variety of microcomputer peripherals, such as modems and printers; ability to lift system components; willingness to work evenings and Saturdays. Resume required.

### Receptionist/Typist, Part-time

940245. *School of Business*. Requirements: High school graduate; some college preferred; strong interpersonal skills, strong verbal and written communication skills; ability to work independently; typing 55 wpm with accuracy. Clerical tests required.

### Administrative Secretary, Part-time

940246. *School of Business*. Requirements: Some college, certificate or associate's degree preferred; excellent telephone/interpersonal skills; professional appearance; knowledge of office procedures; ability to prioritize and handle multiple tasks; demonstrated written and proofreading skills; ability to work with minimal supervision; ability to function in a fast-paced environment; two or more years of secretarial experience preferred; typing 50 wpm with accuracy. Clerical tests required.

### Administrative Secretary, Part-time

940247. *School of Business*. Requirements: Some college, certificate or associate's degree preferred; excellent telephone/interpersonal skills; professional appearance; knowledge of office procedures; ability to prioritize and handle multiple tasks; demonstrated written and proofreading skills; ability to work with minimal supervision; ability to function in a fast-paced environment; two or more years of secretarial experience preferred. Clerical tests required.

## Medical Campus

The following is a partial list of positions available at the School of Medicine. Employees who are interested in submitting a transfer request should contact the Human Resources Department of the medical school at 362-4920 to request an application. External candidates may call 362-7195 for information regarding application procedures or may submit a resume to the Human Resources office located at 4480 Clayton Ave., Campus Box 8002, St. Louis, Mo., 63110. Please note that the medical school does not disclose salary information for vacancies, and the office strongly discourages inquiries to departments other than Human Resources.

### Statistical Data Analyst

940663-R. *Biostatistics*. Requirements: Bachelor's degree, master's degree preferred; SAS experience with data analysis or data management; aptitude for numbers; strong communication skills.

### Contract Administrative Assistant

940692-R. *Special Projects*. Requirements: Associate's degree from two-year paralegal or legal assistant program; knowledge of

business law, especially contracts and warranties, agency, insurance, etc.; knowledge of patent and licensing law preferred; some experience helpful. Responsibilities include providing technical review for contracts and agreements between the University and third parties, and suggesting modifications when appropriate.

### Clerk Typist II

940723-R. *Ophthalmology*. Schedule: Part-time, 15 hours per week (three hours per day) Mondays through Fridays. Requirements: High school graduate or equivalent, some college preferred; experience using personal computer; experience with Microsoft Word for Windows desired; work-related experience; good attention to detail. Responsibilities include assisting in daily data collection and entry, and providing general clerical support.

### Administrative Coordinator

940744-R. *Internal Medicine*. Requirements: Bachelor's degree; three to five years related experience preferred; ability to organize and administer business affairs; supervisory experience highly preferred; accounting and computer literacy; familiarity with university systems highly preferred. Responsibilities: Assist in day-to-day operations of a division, providing necessary support in coordinating a variety of administrative functions, including financial accounting and program planning activities.

### Network Engineer

940772-R. *Medical Library*. Requirements: Bachelor's degree preferably in computer science or electrical engineering; three to five years experience in network design and supervision; working knowledge of TCP/IP, Decnet, LAT, Appletalk, IPX, LAST, LAD protocols. Responsibilities include extensive walking and carrying of network tools.

### Network Technician II

940773-R. *Medical Library*. Requirements: Associate's degree, preferably in computer science or electrical engineering; working knowledge of protocol stacks (TCP/IP, Decnet, LAT, Appletalk, IPX, LAST, LAD); experience configuring terminal serves and bridges a plus. Responsibilities include extensive walking and carrying of network tools and climbing ladders.

### Associate Director of Internal Operations

940788-R. *Administration*. Requirements: Bachelor's degree, preferably in business or finance-related field, advanced degree desired; five years related experience, including supervisory responsibility; knowledge of physicians' professional fee billing practices and principles, third-party payment procedures, regulations and medical collection techniques and policies; experience in a multispecialty group practice with emphasis on professional fee management and regulatory provisions preferred; knowledge of IDX desirable.

### Associate Director of Departmental Support Service

940789-R. *Administration*. Requirements: Bachelor's degree, preferably in business or finance-related field, advanced degree desired; five years related experience, including supervisory responsibility; experience in multispecialty group practice with emphasis on professional fee management; regulatory provision and third-party payment for physician services; knowledge of IDX desirable.

### Associate Director of Information Systems

940790-R. *Administration*. Requirements: Bachelor's degree in information system-related field, advanced degree desired; five years experience in information systems specific to group practice environment; direct experience managing diverse staff in complex environment; knowledge of computer system applications and hardware that support ambulatory or business operations; knowledge of IDX.