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Colorful banners featuring local people line several blocks of Delmar Boulevard. They are the work of W. Patrick Schuchard and School of Art painting students.

New banners bring Delmar neighborhood 'into the loop'

You may already have noticed them, the striking yellow banners streaming down Delmar just east of University City's Loop. And perhaps you've recognized a few of the faces that adorn them — the waitress from a nearby Thai restaurant, the mechanic from a local auto repair shop, the neighborhood dry cleaner.

"It's our own version of the Loop's 'Walk of Fame,'" said W. Patrick Schuchard, E. Desmond Lee Endowed Professor for Community Collaboration at the School of Art. Over the summer Schuchard created 32 of the 7-foot banners, each bearing a colorful portrait of a local resident, with the help of three seniors — his son Alex Schuchard, J.C. Steinbrunner and Eric Wicker, all painting majors in the School of Art.

The banners, hung on streetlights along the half-mile section of Delmar between Skinker Boulevard and DeBaliviere Avenue, were installed over the last few weeks by Bi-State Development Agency as part of an Arts in Transit program designed to help revitalize the area surrounding the Delmar and Forest

Park MetroLink stations. A Missouri Arts Council grant also helped fund the project.

"We wanted to engage the community, the people who live and work in the area," Schuchard said.

"We spent a few days in mid-July going from shop to shop, hanging out, taking photographs and talking to people," he continued. "One of the nicest things about the project was how we were able to involve people who otherwise might not ever have had formal portraits made — business owners, residents, MetroLink riders and even a couple of homeless guys. Ideally, after a year or so, I'd like to replace the banners with a new group and give the old ones to the people who modeled for them."

Schuchard, who earned a bachelor of fine arts degree from Washington University in 1973, has taught at the art school and the School of Architecture in various capacities since 1977. He became an associate professor at the School of Art in 1993 and was named to the E. Desmond Lee Professorship this year.

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Sherraden's savings plan winning broad support

A broad coalition of major foundations has announced funding support for an unprecedented effort to help low-income families use high-return investment accounts to save money for major expenditures — a home, college education for their children or a new business.

The effort grows out of an idea originally conceived by Michael W. Sherraden, Ph.D., the Benjamin E. Youngdahl Professor of Social Development at the George Warren Brown School of Social Work. Sherraden is director of the University's Center for Social Development and author of the seminal book "Assets and the Poor."

Sherraden proposes what he calls Individual Development Accounts, or IDAs. Much as employers match deposits in employee retirement accounts, financial institutions, foundations, churches and state and local governments will match deposits that low-income Americans make in their personal IDAs.

Some of the nation's leading foundations — including the Charles Stewart Mott, Ford, John D. and Catherine T. MacArthur, Levi Strauss, Fannie Mae, Joyce and Moriah foundations — have committed enough funds to start more than 2,000 IDAs.

Called the "Downpayments on the American Dream Policy Demonstration," the initiative, announced Sept. 24, marks the first large-scale test of Sherraden's idea. The Center for Social Development and another independent evaluator still to be chosen will conduct an assessment of the demonstration to learn the extent to which IDAs help low-income Americans save money for major investments.

"This could be one of America's most effective anti-poverty tools in decades," said Robert E. Friedman, founder and chair of the nonprofit Corporation for Enterprise Development (CFED), organizer of the project. "For the first time in U.S. history, we'll be fighting poverty by empowering poor families to save for and invest in their own — and in America's — future."

As a sign of the program's growing support, Republicans and Democrats also are introducing legislation in both houses of Congress to expand the idea nationwide.

Sen. Dan Coats (R-Ind.), one of the leading Senate sponsors of IDAs, said: "Just as Individual Retirement Accounts (IRAs) are helping middle-income Americans save for their retirement, IDAs can help working families save for their futures. I believe IDAs can be to the 21st century what the Homestead Act was to the 19th and what the GI Bill was to the 20th — an investment in the common genius of the American people."

Along with Sen. Tom Harkin (D-Iowa), Coats recently introduced legislation to generate more than 50,000 IDAs in low-income communities throughout the United States. Called the Assets for Independence Act (S.1106), the bill would establish a federal IDA demonstration with a commitment of \$100 million over four years.

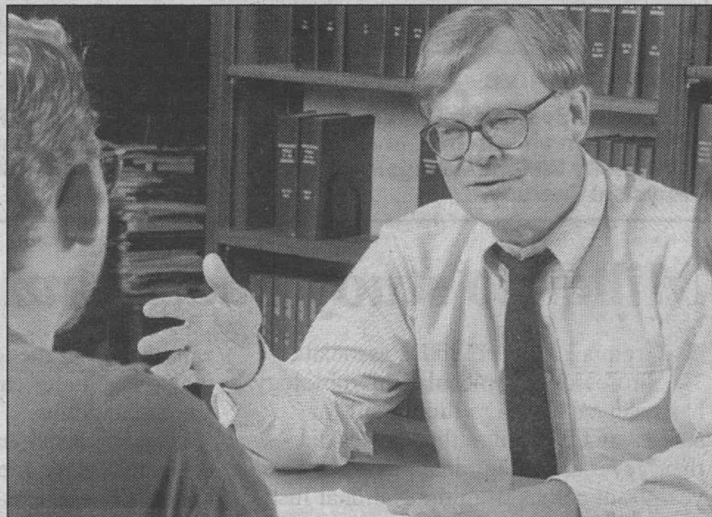
In the House, Reps. John Kasich (R-Ohio) and Tony Hall (D-Ohio) are introducing companion legislation. "Just as it is necessary to cut spending to balance the budget, so it is crucial that we make prudent investments in America's economic future," Kasich said. "IDAs are such an investment."

Interest in IDAs is spreading rapidly throughout the United States. Hundreds of communities across the country responded to CFED's invitation to participate in the demonstration.

"Now we will see," said Sherraden, "whether, as we have suspected, saving can be facilitated for the poor just as it is now facilitated for the middle class in 401Ks and IRAs, and whether assets enable families to reach important life goals."

For more information on Sherraden's work, visit the Center for Social Development home page at: <http://www.gwbssw.wustl.edu/~csd/>.

— Gerry Everding



Michael W. Sherraden's proposal for Individual Development Accounts is gaining broad support nationwide.

Margaret Thatcher to be Founders Day speaker

Former British Prime Minister Margaret Thatcher will be the featured speaker at this year's Founders Day banquet Oct. 24 at the America's Center. The Washington University Alumni Association sponsors the annual event to commemorate the University's founding in 1853. Cocktails at 6:30 p.m. precede dinner at 7:15. Lady Thatcher's address and an awards program will follow the dinner.

As Prime Minister of the United Kingdom, Thatcher led the Conservative Party to three consecutive general election victories. She served as prime minis-

ter for more than 11 years. "The Downing Street Years," Thatcher's memoirs published in 1993 by HarperCollins, details her experiences as prime minister. After leaving the post in November 1990, Thatcher continued to serve as a member of Parliament until the general election in 1992.

In June of 1992, she was named Baroness Thatcher of Kesteven. Thatcher remains an influential figure in international politics. She established the Margaret Thatcher Foundation in 1991 to foster her economic, legal and political principles. She currently holds the posts of

chancellor of Buckingham University in England and chancellor of William & Mary College in Williamsburg, Va.

The Founders Day ceremony includes the presentation of the Distinguished Faculty Awards, the Distinguished Alumni Awards and the Washington University Board of Trustees' Robert S. Brookings Award to two individuals "who exemplify the alliance between Washington University and its community." (See related story on faculty awards on page 6. Next week's Record will have information on the recipients of the Alumni and Brookings awards.)

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Four distinguished professors are to be honored at the annual Founders Day celebration

Medical Update

Speech patterns offer window into psychiatric disorders

It's a scene typical of daytime talk shows, America's showcase for dysfunctional living. The woman who fell for her jailed pen pal is talking at length with no obvious purpose. The host prods for details of the romance, but every answer is exasperatingly vague. "I just love him. He's so nice to me. I like to get his letters. I like to see the mailman."

Shows like this might not seem intellectually stimulating, but listen closely to those arguments, taunts and teary confessions and you might hear a perfect illustration of a breakthrough in psychiatry. School of Medicine researchers have discovered that people with certain psychiatric disorders also have distinctive language patterns that seem to reflect fundamental problems in thinking. The speakers use vague words and usually meander through conversations as if unable to focus on the main point.

These odd speech patterns, common on daytime talk shows, provide direct evidence that many people with antisocial personality disorder and somatization disorder (once called hysteria) also have imbalances in the brain.

"Psychiatrists suspect these disorders are linked to brain chemistry, but it hasn't been proven," said Carol North, M.D., an associate professor of psychiatry and lead author of a paper in a recent issue of *Comprehensive Psychiatry*. "This study is one of the first to link the disorders to the functioning of the brain."

People with somatization disorder, almost always women, have never-ending complaints — ranging from vomiting to paralysis — that can't be linked to physical illness. People with antisocial personality disorder might lie, steal and commit vandalism in childhood and progress to more serious offenses such as burglary and dealing drugs. Both disorders also seem to encourage poor decisions in friends, mates and lifestyles. A woman who marries a known wife-beater may well have one of the disorders, North said.

One or both of these disorders afflict about 8 million Americans — 3 percent of the population. Both tend to run in families, and men with antisocial personality disorder often have female relatives with

somatization disorder and vice versa.

Researchers compared the speech of 15 men and women diagnosed with one or both disorders with 10 men and women of similar ages and backgrounds who worked at a medical clinic. All of the subjects were interviewed about topics such as the weather and news of the day. North played audiotapes of the interviews to psychiatrists who didn't know the subjects or their mental-health status.

She trained the psychiatrists to keep score of different speech patterns, including vagueness and meandering sentences. A subject would earn "vague points" by saying something like "Clinton's a good guy. He does good things." If asked about the weather, a meanderer might mention his dog, his breakfast and his dentist before getting to the humidity.

The scorekeepers were able to see many real-life examples of these speech patterns before the study began. They all watched and listened to daytime talk shows as part of their preparation.

Women in the study showed strong differences in speech. Those with either antisocial disorder or somatization disorder were much more likely to use vague or meandering language. These language patterns were even more pronounced in women with both disorders.

The scorekeepers found no difference in speech patterns among the men in the study, and there was a good reason why. The men in the control group showed strong signs of antisocial personality disorder themselves, and two out of the five were actually diagnosed. "We still suspect that men with antisocial personality disorder do speak differently than other men," North said.

Malfunctioning mind

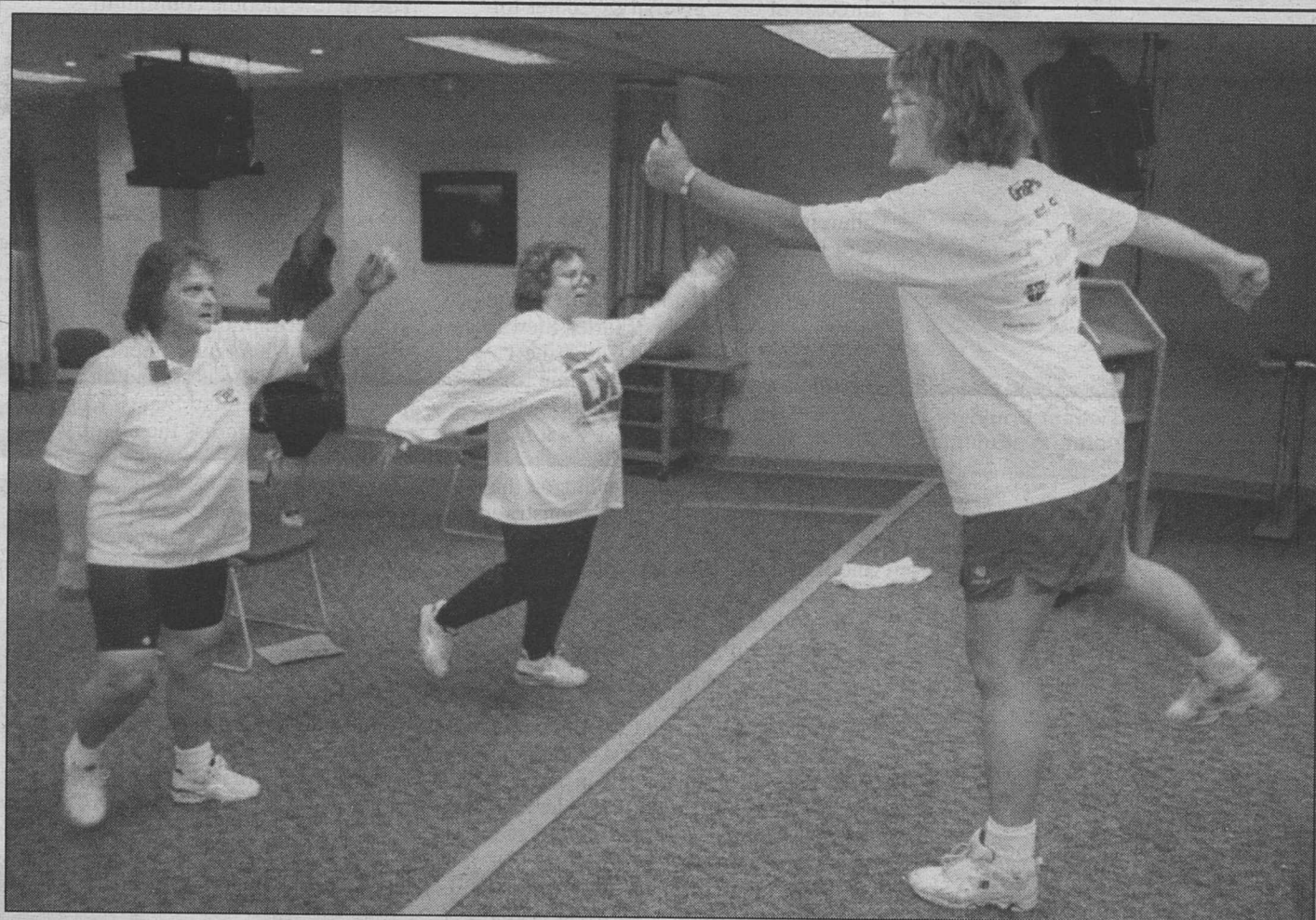
Researchers have long known that brain imbalances can alter language. People with psychoses such as schizophrenia may sound as though their sentences have been run through a blender. The jumbled speech, sometimes called "word salad" at its most extreme, clearly reflects problems with brain chemistry and thinking. North believes vague, wandering speech also indicates a malfunctioning mind, and she coined the term "nonpsychotic thought disorder" to describe the distinct language patterns of people with antisocial personality and somatization disorders. It is the first time that anyone has formally linked unusual thought processes to nonpsychotic psychiatric disorders.

"Dr. North has made a real contribution to the field," said Richard Wetzel, Ph.D., professor of neurology, of neurological surgery and of psychiatry and co-author of the study. "These are people who think things through in ways that aren't very helpful to themselves or society, and Dr. North has found a way to identify the kinds of problems they have with their thinking."

North and Wetzel hope the recognition of distinct speech patterns will help mental health specialists diagnose personality and somatization disorders. Too many people with the disorders are either labeled psychotic or aren't diagnosed at all, North said.

Paying attention to the speech of these people might even lead to better treatment, she added.

— Chris Woolston



On the move

Catherine Seiner, Ph.D., right, instructor in the Program in Physical Therapy, leads Mary Anderson, left, and Debbie Berkeley in an "On the Move" class. This twice-weekly exercise class, offered to participants in the Washington University Weight Management Center, is coordinated by Susan S. Deusinger, Ph.D., head of the Program in Physical Therapy.

Miller to study bacterium that causes gastroenteritis

Virginia L. Miller, Ph.D., associate professor of molecular microbiology, has received a \$1.6 million grant for studies of a bacterium that causes diarrhea, fever and abdominal pain. The five-year grant comes from the National Institute of Allergy and Infectious Diseases.

Miller studies *Yersinia enterocolitica*, which is transmitted through contaminated food and water. "We want to understand how the bacterium causes disease," she said.



Virginia L. Miller

Yersinia is not the most common cause of intestinal upsets, but it is responsible for about 17,000 cases of gastroenteritis each year in the United States. It can be deadly to people with weakened immune systems and can lead to chronic complications such as reactive arthritis or ankylosing spondylitis. Because it

causes pain in the lower right abdomen, it also is a major cause of unnecessary appendectomies.

The bacterium can be found in untreated water, meat, seafood, raw milk, vegetables and tofu, growing even under refrigeration. Pigs are the most common animal source, so preparing foods such as chitterlings puts people at risk for infection.

Miller's previous work focused on how *Yersinia* passes through the wall of the intestine to colonize lymphoid tissue. The products of at least three different genes are involved, she found. The major one is a surface protein called invasin. By infecting mice with *Yersinia* that no longer make this protein, Miller demonstrated that invasin is essential for infection. "It enables the bacterium to stick to the intestinal wall and somehow enter an epithelial cell," she said. The new grant will allow her to determine how the activation of the invasin gene coordinates with that of other genes involved in infection.

Miller discovered the second surface

protein, Ail, in 1986. "We now will try to understand how Ail promotes entry by looking for its receptor and analyzing the functions of the various regions of the Ail protein," she said. "And the gene for Ail sits on a part of the chromosome that is present only in *Yersinia* strains that cause disease. By analyzing this region of DNA, we hope to identify additional virulence genes."

A third invasion factor, YadA, is present in both *Y. enterocolitica* and *Y. pseudotuberculosis*, which also causes gastroenteritis. But *Y. pseudotuberculosis* can cause infection even after the YadA gene is deleted. Miller therefore wants to identify the factors that make *Y. pseudotuberculosis* pathogenic even in the absence of the YadA protein.

"*Yersinia* is amenable to genetic and molecular biology studies and also establishes an infection in mice similar to that in humans," Miller said. "Therefore it is an excellent model system for studying interactions between pathogens and their hosts and for exploring the genetic basis of virulence."

Record

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Washington
WASHINGTON UNIVERSITY IN ST. LOUIS

Washington People

Clark presides over marriage of many minds

What does one make of an internationally renowned expert in artificial intelligence and cognitive robotics who hand writes his books using Bic pens? How about a London-born-and-bred deep thinker who wheels around in the very picture of muscle-bound Americana — a boat-sized 1970 Ford convertible?

Or a person who has descended in formality from Andrew J. to Andrew to Andy as he has scaled the heights of his profession?

If you're Roger Gibson, Ph.D., chair of the Department of Philosophy in Arts and Sciences, you put that chap in charge of one of the most unconventional, intriguing marriages of mind at Washington University: the PNP program.

PNP — shorthand for the Philosophy-Neuroscience-Psychology program — is one of those unlikely hey-you-got-your-peanut-butter-on-my-chocolate combinations of diverse elements, this one tackling questions of the brain and the mind from three vastly different perspectives.

Charged with bringing all sides together is Andy Clark, Ph.D., professor of philosophy, who was tapped by Gibson to oversee the PNP program at its inception in 1993.

PNP was born out of an early-1990s lunch conversation between Gibson and John Bruer, Ph.D., adjunct professor of philosophy and president of the James S. McDonnell Foundation. As food for thought, the two discussed the idea of

a new graduate program in philosophy. Gibson chewed on it for awhile and came up with an interdisciplinary approach to understand the mind/brain.

"We realized there were a lot of people scattered around the Hilltop Campus and the medical school that had mind/brain interests," Gibson said. "But there was no single unity to bring them together and give them a forum. It's hard to link the med school to the Hilltop. It's been done in the sciences, but it hasn't been done in the humanities until now."

The philosophy of mind

The first substantive step was a \$90,000 planning grant from the McDonnell Foundation in 1991. Part of that money went toward hosting an international conference on the philosophy of mind during the fall of 1991. That's when they met Andy Clark.

Scratching an itch after a seven-year tenure at the University of Sussex in England, Clark was wooed and wowed into leaving his native land. "I came to that conference just expecting to give a paper," he recalled. "And I was hooked. It was hard to resist the temptation of coming over and basically creating a program."

Next came a five-year McDonnell Foundation grant worth \$440,000 annually. With full cooperation all around, PNP was up and running.

Since fall 1993, a total of 10 students — two per year — have entered the five-year doctoral program. They have worked with Washington University neuroscience faculty who pioneered the use of PET (Positron-Emission Tomography) imaging techniques and who conduct front-line research in computational neural modeling. They have linked with psychology faculty in areas such as language processing and attention and memory. Also at their disposal are computer science experts in artificial intelligence and neural networks.

"A big part of being a PNP student is learning to make your way through three very distinct cultures," Clark said. "Philosophers are not used to participating in teamwork at all — let alone teamwork in laboratories."

"Nowadays, it's increasingly important for philosophers to be able to talk to people in other disciplines, to draw on the results of other disciplines, and to raise conceptual questions about what's going on in those disciplines," Clark continued. "Although philosophers have tried to do that in the past, I think we've been hampered, basically, by not speaking the same language. One thing that happens here is that our students really learn how to communicate with people in these other disciplines — what interests them, what questions are hot, what are good ways to put things."

"In addition," he said, "philosophers can now get to grips with a whole range of new problems that arise not out of ordinary daily experience but out of advances in

the scientific understanding of mind. It is a mistake to think that the final inventory of philosophical problems was complete around the time of Plato, or even Russell."

When students communicate their opinions of Clark, it doesn't take a neuroscientist to translate. "Andy Clark is a big reason I came here," said Tad Zawidzki, a fifth-year graduate student. "He's one of the premier figures in the field."

"As a teacher — what at first I didn't like but have learned to appreciate — he doesn't force your direction. He lets you make up your own mind. That's a very good situation to be in if you want to become an independent thinker — a person responsible for your own ideas, instead of some kind of disciple or groupie. As a philosopher, he's incredibly subtle and picks up on distinctions and issues that many people are blind to."

Although the five-year grant is expiring this school

of problem with Andy, who I think has a similar background. And it shows. It shows in his research and in his writing. There's a certain kind of philosopher-in-the-street or rock-n-roll philosopher approach that he manifests. I think that resonates with a lot of students."

Tall, rail-thin and stylish without really trying, Clark looks the part of a well-preserved British rocker. He grew up in south London, "on the wrong side of the river," he said. Clark said the area was filled with philosophers — "but only if you count the ones in the pubs." He was the youngest of four boys born to a London housewife and a Scot working for the metropolitan police. From his father, he developed a fascination with science fiction and science fact. "I was always interested in things like, 'could machines think?'" Young Andy also cultivated an enviable collection of American comics, which he later sold for a drum kit and a motor bike.

Nowadays, it's a case of bigger toys for bigger boys. Exhibit A is the 23-foot, fire-red 1970 Ford XL convertible (with PNP-1 plates on order) parked in the Brookings Hall lot, adjacent to his rather barren Busch Hall office. With its thundering 390 engine, one wonders if the resulting roar might, just by sound waves, link the Hilltop and medical campuses. Prior to their joint 1996-97 sabbatical to Europe, Clark and Toribio drove a powder-blue 1968 vehicle of similar make.

Clark turns 40 in November and is taking it, well, philosophically. "I've al-

ready got my big convertible — so I think I've just always been in a state of crisis! If I suddenly started behaving like I was 20, no one would notice the difference."

A refreshing writer

While he got his love of science from his father, Clark inherited a flair for writing from his more artistically inclined mother. He has published three books and is hailed as an eminently entertaining and refreshing writer. His most recent book — "Being There: Putting Brain, Body, and World Together Again" — was released earlier this year by MIT Press.

"The idea is to see how we can draw together work in real-world robotics, developmental psychology, neuroscience, artificial intelligence, as well as larger social-structure areas like economics," he said, synthesizing the book. "I've tried to bring all those interests together into a unified picture of what intelligence is. It isn't sitting in the dark doing deductive logic. It's much more a matter of a kind of on-line, active engagement with aspects of your world."

"I take the idea of treating brain, body and local environment as a unified system very seriously," he said. "Institutional considerations used to work against this. But it is possible — and sometimes illuminating — to try to see beyond those old divisions."

That line of thinking helps explain where philosophy fits into this whole picture. "I think the main task of philosophy is to try to understand, in some very general way, how things hang together, if you like," he said. "Philosophers can bring ideas from one field to another and can see overlaps in ideas that maybe other people are not in position to see."

"The 'B-side' of that — the bad side — is that philosophers in cognitive science often find themselves trying to master too many things all at once. You can't master neuroscience and psychology and philosophy and cultural anthropology and economics. I think the best way around it is to conceive of science as a deeply cooperative enterprise in which no one really knows the whole story."

What Clark has mastered is a blend of wit and wisdom. From the clutter on his desk he produced a clipping of a book review that contains two blurbs side by side. At first glance it is not apparent that they actually refer to two different books.

The first review, from the Encyclopædia Britannica, states: "'Being There' summarizes the progress to date in the field of artificial intelligence. Engrossing, so well-written." The second critique declares: "A wonderfully bizarre and funny story. Great characters. The baton-twirling scene is unforgettable."

In the driest of tones, Clark says, "I don't remember a baton-twirling scene in my book. Maybe I'll put one in for the next edition."

—David Moessner



Andy Clark, Ph.D., professor of philosophy in Arts and Sciences, at the wheel of his trademark red convertible.

year, PNP has been deemed an overwhelming success and will be absorbed by the University. In the works are plans for an undergraduate joint major.

Gibson credits Clark's overall acumen for helping push the program over the top. "Andy's a great teacher — the students like him. He's very accessible to students and to faculty," Gibson said. "And he's on the cutting edge of cognitive science and connectionism."

Connectionism was the topic — and the unexpected result — of a 1989 conference held in the scenic mountains of San Sebastian in the north of Spain. Joining Clark as an attendee was Josefa Toribio, Ph.D., then an

"He's incredibly subtle and picks up on distinctions and issues that many people are blind to."

—Tad Zawidzki

assistant professor of philosophy at Complutense University in Madrid. On the fourth and final day of the conference, the two were paired together at a group dinner. "At some point, we made a connection and stopped talking philosophy," says Toribio with a smile.

A two-month silence persisted while Clark desperately searched for the paper scrap on which he had scrawled her address. "See, I really do believe in the external mind," Clark said of his propensity toward Post-It notes. "The trouble is, sometimes I lose bits of my mind!"

The address finally located, the two began an eight-month long-distance letter-writing courtship that culminated in a June 1991 wedding.

Toribio, who also teaches in the Washington University philosophy department as an assistant professor, has a more classical background, focusing on philosophy of mind and of language. It brings to mind the deep question: What do two philosophers discuss at home? "Anything but philosophy, really," Clark replied. Revealed Toribio: "Some people wonder, 'You must have really interesting conversations.' And I always say, 'Oh, absolutely — we talk rubbish!'"

That disarming and down-to-earth nature is a welcome trait, said Pete Mandik, a third-year PNP student. "I'm a first-generation college student. Blue-collar background. And a lot of times I find myself uncomfortable around some of my professors," he said. "I don't have that kind

Calendar

Visit Washington University's on-line calendar at
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Oct. 9-18



Exhibitions

Olin Library Special Collections. "The Gehenna Poets: 1959-1995." Through Oct. 20. Special Collections, level five, Olin Library. 935-5495.

Selections from the Washington University art collections. "Art in the Age of Revolution." Through Oct. 12. "Leonard Baskin: Prints." Through Dec. 7. Gallery of Art, lower gallery. 935-5490.

"Site As Context: Schools of Art and Architecture Faculty Projects." Through Oct. 19. Gallery of Art, upper gallery. 935-5490.



Films

Wednesday, Oct. 15

6 p.m. Chinese Film Series. "To Live." Room 219 S. Ridgely Hall. 935-5156.



Lectures

Thursday, Oct. 9

Noon. Genetics seminar. Shreffler Memorial Lecture. "Genetics of Axial Patterning in the Mouse." Terry Magnuson, prof. of genetics, Case Western Reserve U. Genetics Library, Room 823 McDonnell Medical Sciences Bldg. 362-7072.

1:10 p.m. Social Work lecture. "Religion, Women and Social Justice." Sandra A. Wilson, rector, St. Thomas Episcopal Church, Denver. Brown Hall Lounge, Brown Hall. 935-7453.

4 p.m. Cancer Center seminar. "Biological Functions of the BRCA1 Tumor Suppressor." Richard Baer, U. of Texas Southwestern. Third Floor Aud., Children's Hospital. 747-0359.

4 p.m. Earth and planetary sciences colloquium. "In Situ pH Measurement in Hydrothermal Solutions: Acid/Base Equilibria, Metal Complexation and Hydrolysis, Mineral Solubilities, Surface Charge and Kinetic Studies." Dave Wesolowski, sr. research staff, Geochemistry Group, Oak Ridge National Laboratory. Room 361 McDonnell Hall. 935-5610.

4:15 p.m. Philosophy/neuroscience/psychology colloquium. "The Hippocampus: Dealing with Complexity." Paul Patton, post-doctoral research assoc., Mercer U. School of Medicine, Macon, Ga. Room 362 McDonnell Hall. 935-5119.

4:30 p.m. Mathematics colloquium. Subject: Complex analysis. Jean-Pierre Rosay, U. of Wisconsin-Madison. Room 199 Cupples I Hall. 935-6760.

Friday, Oct. 10

10:30 a.m. ASHA/Social Work lecture. Speaker is Shyam Benegal, renowned Indian filmmaker. Brown Lounge, Brown Hall. 935-6693. (See story on page 5.)

Noon. African and Afro-American Studies/political science/International Studies lecture. "From Congo to Zaire and Back." Crawford Young, prof. of political science, U. of Wisconsin-Madison. Room 404 Anheuser-Busch Hall. 935-5690.

Noon. Cell biology and physiology seminar. "Mitosis and Checkpoints That Control Progression Through Mitosis in Vertebrate

Somatic Cells." Conly L. Rieder, Wadsworth Center Labs and Research, N.Y. State Dept. of Health, Albany, N.Y. Room 426 McDonnell Medical Sciences Bldg. 362-6950.

4 p.m. Chemistry seminar. "Coordination Chemistry of Surfaces: Self-assembly of Molecules on Microfabricated Structures." Mark S. Wrighton, chancellor. Room 458 Louderman Hall. 935-6530.

Sunday, Oct. 12

12:30 p.m. Catholic Student Center lecture. Newman Lecture Series. "The Faith of a Surgeon." Virginia M. Herrmann, vice chair and prof. of surgery, dir. of home health care and co-director of St. Louis U. Breast Center. Catholic Student Center, 6352 Forsyth Blvd. 725-3358.

Monday, Oct. 13

Noon. Molecular biology and pharmacology seminar. "Shaping Visual Connections During Development by Retinal Activity." Rachel O. L. Wong, asst. prof., anatomy and neurobiology. Pharmacology Library: Philip Needleman Library, Room 3907 South Bldg. 362-2725.

3 p.m. Math analysis seminar. "Estimates on Green Functions and Poisson Kernels for Symmetric Stable Processes." Renming Song, prof. mathematics, U. of Illinois at Urbana-Champaign. Room 199 Cupples I Hall. 935-6760.

4 p.m. Biology seminar. "Eukaryotic Transcriptional Regulatory Mechanisms." Kevin Struhl, prof. of biological chemistry and molecular pharmacology, Harvard U. Medical School. Room 162 McDonnell Hall. 935-6860.

4 p.m. Immunology research seminar. "Fc Receptors: Activators and Inhibitors of Inflammation." Jeffrey V. Ravetch, Laboratory of Molecular Genetics and Immunology, The Rockefeller U. Eric P. Newman Education Center. 362-9334.

5:30 p.m. Radiology lecture. Fifth annual G. Leland Melson Visiting Professorship and Lecture. "Evaluation of Ectopic Pregnancy: 1997." Faye C. Laing, prof. of radiology, Harvard U. Scarpellino Aud., first floor, Mallinckrodt Institute of Radiology, 510 S. Kingshighway Blvd. 362-2866.

Tuesday, Oct. 14.

Noon. Molecular microbiology/microbial pathogenesis seminar. Sponsored by microbiology graduate students. "Regulation of Virulence Gene Expression by ToxR and ToxT in *Vibrio Cholerae*." Victor DiRita, assoc. prof. of microbiology and immunology, U. of Mich. Medical School, Ann Arbor. Cori Aud., 4565 McKinley Ave. 747-3627.

12:10 p.m. Physical Therapy research seminar. "Effects of Estrogen on Rat Skeletal Muscle." Jonathan Fisher, doctoral candidate in physical therapy and Arts and Sciences. Classroom C, 4444 Forest Park Blvd. 286-1400.

4 p.m. Chemistry seminar. "Photochemical Patterning of Self-assembled Monolayers." Mark S. Wrighton, chancellor. Room 458 Louderman Hall. 935-6530.

Wednesday, Oct. 15

8 a.m. Obstetrics and Gynecology Grand Rounds. "Cervical Incompetence." Jill M. Mason, chief resident, obstetrics and gynecology. Clopton Aud., 4950 Children's Place. 362-7139.

11 a.m. Assembly Series lecture. "Nonviolence or Nonexistence: Options for the 21st Century." Arun Gandhi, advocate of nonviolence and grandson of Mahatma Gandhi. Graham Chapel. 935-5285. (See story on page 5.)

3:45 p.m. Physics colloquium. "The First Gauge Theory." John Ralston, prof. of physics, U. of Kansas. Room 204 Crow Hall. 935-6252.

4 p.m. Biochemistry and molecular biophysics lecture. "Design Approaches to Study Protein Structure and Function." Lynne Regan, assoc. prof. of molecular biophysics and biochemistry, Yale U. Erlanger Aud., McDonnell Medical Sciences Bldg. 362-0261.

8 p.m. Writing Program seminar. "Words Before Music: Contemporary Opera and the Librettist's Lot." J.D. McClatchy, visiting Hurst Professor of English and editor, The Yale Review. Hurst Lounge, Room 201 Duncker Hall. 935-7130.

Thursday, Oct. 16

Noon. Chemistry seminar. "Ellagitannin Chemistry." Ken Feldman, Pennsylvania State U. Room 311 McMillen Laboratory. 935-6530.

Noon. Genetics seminar. "Control of Cell Division by Ubiquitin-dependent Proteolysis." Mike Tyers, the Samuel Lunenfeld Research Institute, U. of Toronto. Genetics Library, Room 823 McDonnell Medical Sciences Bldg. 362-7072.

4 p.m. Cancer Center seminar. "Biochemical Studies of Apoptosis — Putting a Colorful Puzzle Together." Xiao-Dong Wang, U. of Texas Southwestern. Third Floor Aud., Children's Hospital. 747-0359.

4 p.m. Earth and planetary sciences colloquium. "Core Evolution in the Icy Galilean Satellites." William B. McKinnon, assoc. prof. of earth and planetary sciences. Room 361 McDonnell Hall. 935-5610.

4:30 p.m. Math colloquium. "The Dynamics of Polygonal Billiards." Gregory Galperin, prof. of mathematics, Eastern Ill. U., Room 199 Cupples I Hall. 935-6760.

Friday, Oct. 17

Noon. Cell biology and physiology seminar. "Gap Junctional Communication, Cataracts and Sleep." Norton B. Gilula, cell biology dept., Scripps Research Institute. Room 426 McDonnell Medical Sciences Bldg. 362-6950.

4 p.m. Assembly Series Lecture. "The Changing Face of Science." Neal Lane, pres., National Science Foundation. May Aud., Simon Hall. 935-5285.

Saturday, Oct. 18

10 a.m. Science Saturdays. "The Search for Black Holes: The Strange Properties of Black Holes and Evidence That They Do Exist." Clifford M. Will, prof. and chair of physics. Room 201 Crow Hall. 935-6788.



Miscellany

Registration open for diagnostic radiology seminar. "Practical Issues in Leading-edge Radiology II" (Oct. 17-19). Radisson Hotel, Clayton. For times, costs and to register, call 362-2916.

Registration open for the following Office of Continuing Medical Education seminars. "New Techniques in Urinary Incontinence and Female Urology" (Oct. 18), Eric P. Newman Education Center; "Maturing Gracefully: An Update on Urology and Osteoporosis" (Nov. 1), Ritz-Carlton Hotel,

Book artist Buzz Spector to speak in School of Art lecture series

Washington University's School of Art will present a lecture by sculptor, book artist and critic Buzz Spector as part of its 1997-98 lecture series. The lecture is free and open to the public and will take place at 7:30 p.m. Oct. 15 in the Gallery of Art, Steinberg Hall.

The Art Institute of Chicago; the Museum of Contemporary Art in Chicago; Newport Harbor Art Museum in California; Corcoran Gallery of Art in Washington, D.C.; and The Mattress Factory in Pittsburgh are among the museums and galleries that have displayed Spector's work.

Since the mid-1970s, Spector has published a number of limited edition books, most recently "The Position of the Author" (Visual Studies Workshop Press, 1993) and "A Passage" (Granary Books, 1994).

In 1978 Spector co-founded White Walls, a Chicago-based magazine of writings by artists, and served as the

100 Carondelet Plaza; second annual "Fingers to Toes: Comprehensive Orthopaedic Review Course for Primary Care Physicians" (Nov. 7-8), Eric P. Newman Education Center; 23rd annual "Symposium on Obstetrics and Gynecology" (Nov. 13-14), Eric P. Newman Education Center. For times, costs and to register, call 362-6891.

Saturday, Oct. 11

9:30 a.m. E-mail/Internet workshop. (Also, Oct. 18, same time.) To register, call 935-6777.

Saturday, Oct. 18

9 a.m. Book arts workshop. "Play With Cameraless Photography." Make images and illustrations using cameraless photography. Instructor: Barbara F. Zucker. (Also, Nov. 1.) Cost: \$35, plus \$20 supply fee (one day); \$55, plus \$20 supply fee (both days). Lewis Center. To register, call 935-4643.

9 a.m. Book arts workshop. "Put a Good Book in Leather." Learn the basics of book cover construction and design. Instructor: Andrea Vadner. Cost: \$35, plus \$30 supply fee. Room 104 Bixby Hall. To register, call 935-4643.

1 p.m. Book arts workshop. "Make Paper and Cast Paper." Make stationery and matching envelopes or cast paper in molds. Instructor: Betty Shew. Cost \$35, plus \$10 supply fee. Room 107 Bixby Hall. To register, call 935-4643.



Vienna Fest 1997

Friday, Oct. 10

4 p.m. Music lecture. "Brahms' 'Alto Rhapsody' as a Key to His Artistic Development." James Webster, Cornell U. Room 102 Music Classrooms Bldg. 935-4841.

Saturday, Oct. 18

2:30-4 p.m. German dept. colloquium. A Vienna Fest Colloquium on the Occasion of Egon Schwarz's 75th Birthday. Features lectures by Paul Michael Lützel, the Rosa May Distinguished University Professor in the Humanities; Egon Schwarz, the Rosa May Distinguished University Professor Emeritus in the Humanities; and Steven P. Scher, prof. of German and comparative literature, Dartmouth College. Room 149 McMillan Hall. 935-5106.

8 p.m. OVATIONS! Series concert. Fortepiano recital. Program: Franz Schubert and Johannes Brahms. Malcolm Bilson, fortepianist, with Seth Carlin, prof. of music. Cost: \$23. Edison Theatre. 935-6543. (See story on page 6.)

publication's editor until 1987. He has written extensively on contemporary art and culture for a variety of publications, including Art Forum, Art Issues, Dialogue and The New Art Examiner, and is the author of "The Book Maker's Desire" (Umbrella Editions, 1995), a collection of critical essays on artists' books and other topics in contemporary art.

Spector graduated from Southern Illinois University at Carbondale in 1972 with a bachelor's degree in art and from the University of Chicago in 1978 with a master's degree from the Committee on Art and Design.

In 1991, he was awarded a Louis Comfort Tiffany Foundation Fellowship, and in 1982, 1985 and 1991, he received National Endowment for the Arts Fellowship awards.

He is a professor in the School of Art and Design at the University of Illinois at Urbana-Champaign.

For more information, call (314) 935-6500.

Arun Gandhi to speak Oct. 15 on "Nonviolence or Nonexistence"

Arun Gandhi will deliver a lecture titled "Nonviolence or Nonexistence: Options for the 21st Century" at 11 a.m. Wednesday, Oct. 15, in Graham Chapel as part of Washington University's Assembly Series. The lecture will commemorate the 50th anniversary of India's independence.



Arun Gandhi

Arun Gandhi is the grandson of India's late spiritual leader Mohandas K. (Mahatma) Gandhi and is dedicated to carrying on his grandfather's message of nonviolence. After having experienced racist violence in South Africa when he was 12, Arun Gandhi traveled to India with his parents to live with his grandfather and learn the Indian leader's lessons. In spite of his preoccupation with India's tumultuous transfer of power, Mahatma Gandhi spent at least an hour alone with Arun each day and taught him a number of lessons in nonviolence, lessons that would ultimately set the course for Arun's life work.

Arun Gandhi began work as a reporter for the Times of India in 1957 and simultaneously founded the Center for Social

Unity, which is dedicated to alleviating poverty and caste discrimination in India by providing members of the "untouchable" class with self-help models of commerce. In 1987, Gandhi came to the United States to study and compare the prejudices here with those in South Africa and India in the hope of improving human relations through nonviolence. With his wife, Sunanda, Gandhi founded the M. K. Gandhi Institute for Nonviolence, located on the campus of Christian Brothers University in Memphis, Tenn., in 1991. For the past five years, he has participated in the Renaissance Weekend deliberations with President Bill Clinton and other eminent Rhodes Scholars at Hilton Head, S.C.

Gandhi recently completed his fifth book, "A Testament to Truth," which is a collection of his grandfather's writings set in a contemporary context. He also has contributed to the first "Encyclopedia of Nonviolence" and has edited the anthology "World Without Violence: Can Gandhi's Vision Become Reality?" He is currently working on a biography of his grandmother, Kastur.

The lecture is free and open to the public. After the lecture there will be an informal discussion with Gandhi from 2-3 p.m. in the Women's Building Formal Lounge. For more information, call (314) 935-5285.

Renowned Indian director to discuss films, social issues

Shyam Benegal, director of a new documentary film on Mahatma Gandhi's early years fighting apartheid in colonial South Africa, will discuss his films and related social issues at 10:30 a.m. Friday, Oct. 10, in Brown Lounge, Brown Hall.

One of India's most respected filmmakers, Benegal began his career making documentaries in 1967 with the much-acclaimed "A Child of the Streets" and made his first feature film in 1974 with "Ankur." He has since made 18 feature films, two feature-length documentaries and many short films.

His latest work, "The Making of the Mahatma," explores Gandhi's experiments with nonviolence as a weapon in the struggle against apartheid in South Africa. Gandhi came to South Africa at age 24 as an England-educated barrister-in-law. He spent the next 21 years in South Africa battling the inequities and atrocities suffered by a large number of

Indians who worked there as indentured servants.

"The Making of the Mahatma" is a joint collaboration by the National Film Development Corp. of India and the South African Broadcasting Corp. It is based on a book about Gandhi's years in South Africa written by Fatima Meer, a Gandhian scholar and anti-apartheid activist in South Africa. It is produced by Anant Singh, a South African filmmaker who produced "Cry the Beloved Country" and is currently making a film based on Nelson Mandela's autobiography.

The program, which is free and open to the public, will include a 45-minute lecture followed by a half-hour discussion. It is sponsored by the George Warren Brown School of Social Work and ASHA, a campus student organization that supports grassroots educational projects in rural India. For more information, call (314) 935-6693.

Schuchard explores artist's role — from page 1

A widely exhibited painter and sculptor, Schuchard has long been a force in the drive to expand the presence and quality of the visual arts in St. Louis. He serves as an adviser to a number of local arts groups, including the Clayton Public Art Commission, the St. Louis 2004 Culture Action Team and the Forum for Contemporary Art, and is a chief organizer of St. Louis' annual Town Meeting on the Arts. He is a founding member of Critical Mass, a new group dedicated to finding ways to help promote greater regional appreciation of — and access to — visual art.

Despite his record of community involvement, Schuchard shies away from being labeled an activist. "I don't really think of myself as a do-gooder," he said, "but I'm very interested in the question of what it means to be an artist today, what sorts of things artists can do in our society. The old model of selling art through a gallery is really viable for only a few people. I'm interested in how artists actually go about making their livings these days and in finding ways to get the formal, aesthetic intelligence that they possess out to a wider audience."

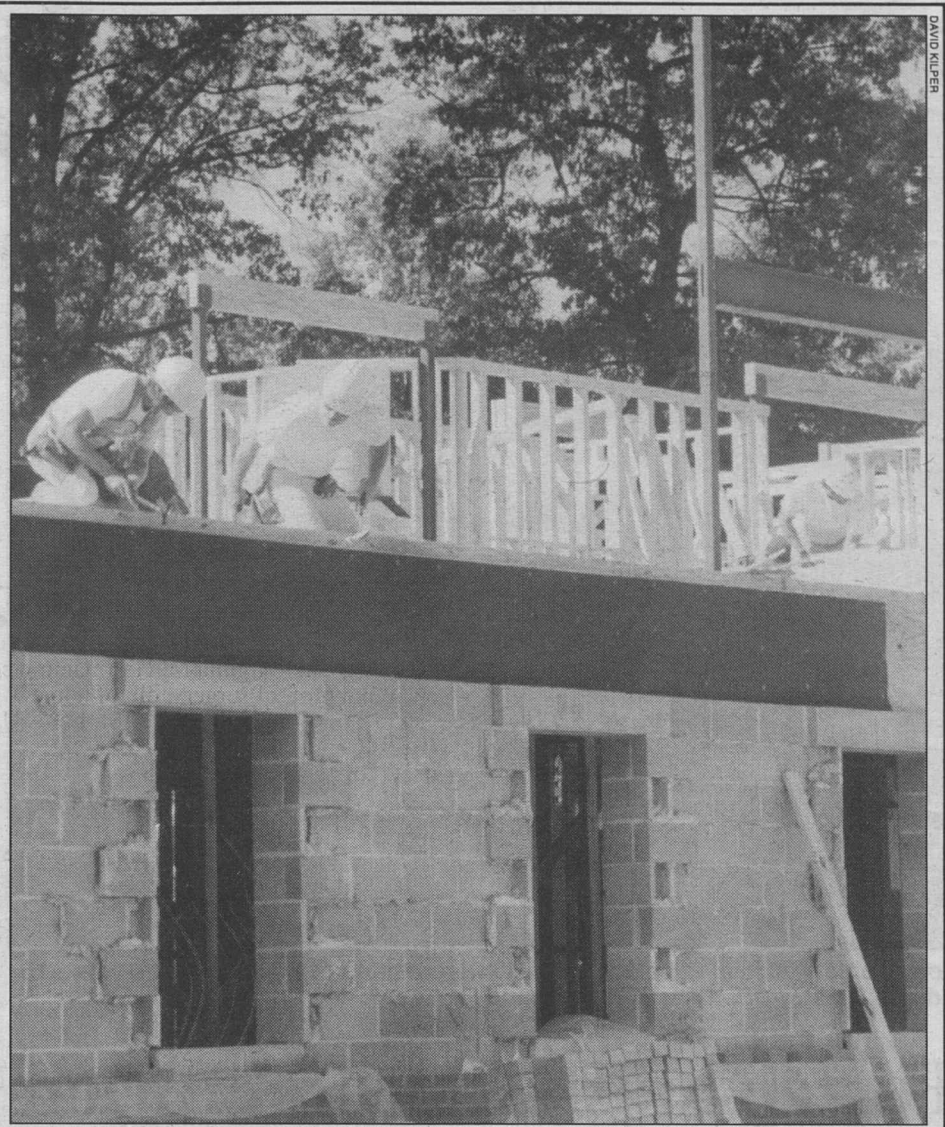
"I truly love good painting," he added, "but it's like the poet Gary Snyder says: 'If the San Francisco Opera has one lead singer and you live in San Francisco, like to sing and aren't that person, what are you supposed to do? Stay home and watch TV?'"

Schuchard is studying the Delmar neighborhood as part of a group that includes W. Davis van Bakergem, affiliate associate professor in the School of Architecture; Sara Smith, Arts in Transit director; George Johannes, architect; Austin Tao, landscape architect; and John and Taulby Roach, development consultants. Schuchard said that there are a number of other projects on the drawing board.

"I think this neighborhood is really going to come into its own in the next few years," he said. "Twenty years ago, when the Loop was first being redeveloped, buildings were cheap and rents were low. Today the Loop is bursting at the seams and prices have risen accordingly. If the area is going to continue to be a viable alternative for young people — like Washington University students — it's going to have to continue to grow, and projects like this are integral to that process."

"I see what we're doing as a way to build enthusiasm with area businesses and residents," he added. "We're working on some pretty ambitious projects: widening the sidewalks, planting trees, adding street medians and possibly a mezzanine to the Delmar MetroLink station. I think over the next five years or so, people are going to see some really dramatic improvements."

— Liam Otten



New housing in the works

Two workers from Paric Corp. continue to hammer out Phase One of the South 40 residence hall construction project. The three residence halls in this first of three phases are expected to be completed next spring.

Sports

Compiled by Mike Wolf, asst. athletic director for media relations, and Kevin Bergquist, asst. director, sports information. For the most up-to-date news about Washington University's athletics program, access the Bears' Web site at www.sports-u.com.

Football Bears return to action against Trinity

Ranked 22nd this week in one Division III national poll, Washington University's football Bears return to action this weekend, playing ninth-ranked Trinity University. The Tigers have won 16 of their last 17 games. The Bears had an open date last Saturday after Illinois Wesleyan snapped their seven-game winning streak.

Current Record: 3-1 (1-0 UAA)

This Week: 7:30 p.m. Saturday, Oct. 11, at Trinity University, San Antonio, Texas.

Men's soccer loses two one-goal games

Facing its most difficult league road trip of the season, the Bears fell a goal short in both of their meetings with University Athletic Association (UAA) leaders University of Rochester and Brandeis University. After extending its winning streak to four games with a 3-0 win over Webster University, the Bears dropped a heartbreaking 2-1 double overtime loss at eighth-ranked Rochester and then fell 1-0 to Brandeis.

Current Record: 5-3 (1-2 UAA)

This Week: 10:30 a.m. Saturday, Oct. 11, vs. University of Wisconsin-Oshkosh (at Benedictine University), Lisle, Ill.; noon Sunday, Oct. 12, at Benedictine University.

Women's soccer drops pair of contests

Washington University's seventh-ranked women's soccer team dropped a pair of one-goal decisions during its first UAA road trip of the season. The Bears fell to fifth-ranked University of Rochester 1-0, a loss that snapped their Division III win streak at 10 matches. Washington scored first at Brandeis University, but could

not hold on and fell 2-1 to suffer its first back-to-back loss since 1995. The Bears travel to Minnesota this weekend for a pair of nonconference games at fourth-ranked Macalester College and No. 22 Gustavus Adolphus College.

Current Record: 7-3 (1-2 UAA)

This Week: Noon Saturday, Oct. 11, at Gustavus Adolphus College, St. Peter, Minn.; noon Sunday, Oct. 12, at Macalester College, St. Paul, Minn.

Volleyball resumes home schedule with WU Classic

The fifth-ranked Washington University volleyball team resumes its home schedule this weekend after a 10-day layoff. The Bears host the Washington U. Classic Friday and Saturday in the Field House.

Current Record: 15-5 (8-0 UAA)

This Week: 5:30 and 7:30 p.m. Friday, Oct. 10, vs. Central College and Savannah College of Art and Design, Field House; 10 a.m. and 2 p.m. Saturday, Oct. 11, vs. Southwestern University and Simpson College, Field House.

Cross Country squads set to host championship

Washington University's cross country teams host the second of three home meets Saturday, Oct. 11, when more than 20 schools compete at Forest Park in the All-Missouri/Border States Championship. Junior Emily Richard won her third consecutive meet and earned medalist honors for the fourth time in five meets Saturday as the WU women finished third of 13 teams at the NCAA Division I Southern Illinois University-Carbondale Invitational. Senior Tyler Small continued his top-five streak, placing fifth to help the WU men place second of 10 teams at the SIUC meet.

This Week: 10 a.m. Saturday, Oct. 11, WU hosts All-Missouri/Border States Championship, Forest Park.



Fortepianist Malcolm Bilson brings his interpretation of classical piano works to Edison Theatre Oct. 18 as part of Vienna Fest 1997.

Fortepianist Malcolm Bilson joins Vienna Fest celebration

Fortepianist Malcolm Bilson, one of the world's most respected interpreters of classical piano works, will help celebrate Washington University's Vienna Fest 1997 with an evening of Brahms and Schubert at 8 p.m. Oct. 18 at Edison Theatre.

Vienna Fest 1997 is a yearlong festival of 19th- and early 20th-century Viennese music, art, history and culture honoring the 200th anniversary of Franz Schubert's birth and the centenary of Johannes Brahms' death.

Hailed as the "exemplary Mozart pianist of our time" by the New York Review of Books, Bilson has been at the forefront of the historical performance movement since the late 1960s. His performances and recordings of works by composers like Haydn, Mozart and Beethoven on replica and original five-octave late 18th-century pianos have in large part been responsible for the fortepiano's return to the concert stage.

The concert is sponsored by Edison Theatre in association with the Department of Music in Arts and Sciences. The event is part of Edison Theatre's OVA-TIONS! Series. Bilson will be joined by Seth Carlin, professor of music, for a performance of Brahms' "Variations on a Theme of Haydn."

Bilson studied piano performance at Bard College in New York and, from

1957-59, in Europe as a Fulbright Scholar. He completed his doctorate at the University of Illinois, where he subsequently joined the faculty, and in 1969 moved to Cornell University, where he is now the Frederick J. Whiton Professor of Music and director of the 18th-Century Historical Keyboard Performance Practice program.

Shortly after joining Cornell, he met Philip Belt, who makes reproductions of antique instruments. It was Belt who introduced him to the fortepiano. "It was the first time I'd been able to play every note Mozart had written," Bilson explained. "The modern piano develops the tone slowly and is ideal for long, gradually unfolding lines but poor for phrases containing frequent changes in stress."

Tickets are \$23 for the general public and are available at Edison Theatre, (314) 935-6543, or through MetroTix, (314) 534-1111. For more information, call (314) 935-6543.

A preconcert dinner will be held at the Whittemore House and will feature an introduction to the fortepiano and the music of Brahms and Schubert by Hugh Macdonald, Ph.D., the Avis Blewett Professor of Music and chair of the music department. Reservations are limited. For more information on the preconcert dinner, call Aly Abrams at (314) 935-4478.

Founders Day to honor four faculty

This year's recipients of the University's Distinguished Faculty Awards, to be honored at the annual Founders Day banquet Oct. 24, are F. Sessions Cole, M.D., professor of pediatrics and professor of cell biology and physiology; James W. Davis, Ph.D., professor of political science in Arts and Sciences and director of the Teaching Center; Nancy Morrow-Howell, Ph.D., associate professor of social work; and Donald C. Royse, Ph.D., professor of architecture.

F. Sessions Cole

Professor of pediatrics and professor of cell biology and physiology



Cole joined the Washington University School of Medicine in 1986, and within two years he had restructured the Newborn Medicine service at Children's Hospital, Barnes Hospital and Jewish Hospital. Under his

direction, this department has become a leader in providing medical services to infants. In addition to his teaching responsibilities, Cole is vice chair of the Department of Pediatrics and director of the Division of Newborn Medicine. He also serves as regional medical director for pediatrics for the BJC Health System.

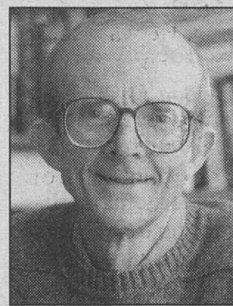
As a professor, Cole shows an extraordinary commitment to excellence in education and outreach activities. He was instrumental in the formation of community outreach programs for medical students such as Students Teaching AIDS to Students (STATS) and the Perinatal Project. In recognition of his outstanding contributions to teaching, Cole was selected in 1990 as the 37th annual Alpha Omega Alpha Lecturer at the School of Medicine, and he received the Clinical Teacher of the Year Award from the graduating class in 1993.

Cole's research in the susceptibility of the newborn infant to infection and the molecular basis of that susceptibility has been documented in more than 70 publications. He is a member of the Society for Pediatric Research, the American Society for Clinical Investigation and the American Association of Immunologists.

Cole received a bachelor's degree from Amherst College and a medical degree from Yale University School of Medicine.

James W. Davis

Professor of political science in Arts and Sciences, director of the Teaching Center



In the 28 years that Davis has been on the University faculty, he has earned a reputation as a highly respected professor, adviser and administrator. He is a recipient of the University's Inter-

fraternity Council Teaching Award, and he has twice received the Award for Teaching Excellence from the Council of Students of Arts and Sciences.

During his tenure, Davis has served in many significant capacities as an administrator and committee member. These key posts include associate provost and vice chancellor, associate dean for the College of Arts and Sciences, and acting dean for the School of Fine Arts. He has been part of the Chancellor Search Committee; the Committee to Prepare for the 21st Century; the Committee on Safety and Security; and the Advisory Committee on Tenure, Promotion and Personnel. He took over the reins of the Teaching Center last year.

As a political scientist, Davis' research and scholarship are well known. He has written four books, and his essays on politics and policy have appeared in a host of U.S. newspapers and publications, including The New York Times, the Chicago Tribune, Christian Science Monitor, Los Angeles Times and the Chronicle of Higher Education. He has provided expertise for many national and international groups, among them the National Advisory Commission on Selective Service.

Davis received a bachelor's degree from Harvard University and master's and doctoral degrees from the University of Michigan.

Nancy Morrow-Howell

Associate professor of social work



Since 1987, Morrow-Howell has distinguished herself as a widely admired and first-rate teacher, researcher and administrator within the George Warren Brown School of Social Work. Nationally

recognized for her work in gerontological research, Morrow-Howell has published major articles in leading social service journals and has served as a consulting editor and reviewer for several professional periodicals. Her recent focus of inquiry concentrates on discharge planning and home care arrangements for the elderly, the use of volunteers as service providers to the elderly, and mental health service use by elderly victims of depression.

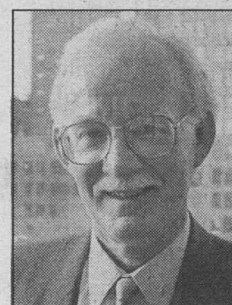
In recognition of her expertise, Morrow-Howell has received research funding from the Department of Health and Human Services, the Retirement Research Foundation, the American Association of Retired Persons' Andrus Foundation and the National Institutes of Mental Health.

Her contributions toward helping the social work school retain its mantle as the country's premier school of social work are apparent in the number of important academic committees on which she has served. This list includes the Master of Social Work Curriculum Committee, the Gerontology Concentration at the school, the GWP Personnel Advisory Committee, the Affirmative Action Committee, the Ph.D. Administrative Committee and the Practicum Advisory Committee. Her generosity extends to the community as well. Morrow-Howell has provided assistance to various social services, including the St. Louis Alzheimer's Association, the OASIS Institute and Life Crisis Inc.

Morrow-Howell received a bachelor's and a master's degree in social work from the University of Kansas and a doctoral degree in social welfare at the University of California at Berkeley.

Donald C. Royse

Professor of architecture



Since joining the faculty of the School of Architecture in 1968, Royse has played a major role in the school's overall long-range strategic plan, particularly in post-graduate studies. As a specialist in urban

design, Royse has been instrumental in facilitating that department's expansion into a multidisciplinary program, incorporating computer technology, social sciences and other related fields into design programs.

Royse is a teacher whose patience and sensitivity toward his students have been exemplary and widely appreciated. He is known for working tirelessly with his students on their long-term projects. His contributions extend far beyond the University setting as well. From 1990-93, he served as the first director of urban design for the city of St. Louis, overseeing the development of the new America's Center, Kiel Center and the MetroLink system. Royse has played a pivotal role in the study of design issues surrounding Mississippi River gambling casinos and has helped in the redevelopment under way in the loft district along Washington Avenue.

When he's not charting the future of the city, the architecture school or the careers of students, Royse, a principal in various architectural firms for the past 20 years, designs single-family dwellings.

Royse received a bachelor's degree in architecture from the University of California at Berkeley and a doctorate from the Massachusetts Institute of Technology.

Campus Watch

The following incidents were reported to the University Police Department from Sept. 29-Oct. 5. Readers with information that could assist the investigation of these incidents are urged to call (314) 935-5555. This release is provided as a public service to promote safety awareness on campus.

Sept. 30

11:20 a.m. — A staff member reported that several bicycle seats were found near Koenig Residence Hall. University Police identified four bicycles with missing seats and notified the owners.

Oct. 1

6:04 p.m. — An officer attempting to advise two students of the acrobatic skating policy encountered a student who could not produce identification and provided false identification. The incident has been referred to the Judicial Administrator.

Oct. 2

4:26 p.m. — An officer on patrol discovered graffiti on the east walls of Ridgley Hall.
11:44 p.m. — A staff member reported finding drug paraphernalia in an unlocked utility cabinet in Eliot Residence Hall. It was confiscated.

Oct. 3

1:11 a.m. — A student reported a broken basement window in a fraternity house. Police are investigating the report of a student with an injured hand at a neighboring house.

Oct. 5

1:04 a.m. — A student reported that a bulletin board on the South 40 walkway had been set on fire. The student extinguished the fire before police arrived.
5:30 p.m. — An officer reported a student violating the leash law. The student refused to put his dog on a leash and the incident is being referred to the Judicial Administrator.

University Police also responded to four reports of theft, three reports of bicycle theft, and an auto accident.

Introducing new faculty members

The following are among the new faculty members on the Hilltop Campus. Others will be introduced periodically in this space.

James H. Buckley, Ph.D., assistant professor of physics in Arts and Sciences, arrives from the Harvard-Smithsonian Center for Astrophysics, where he had been a postdoctoral research associate since 1993 doing research in gamma-ray astronomy with air Cerenkov telescopes. He also did balloon-borne measurements of high-energy cosmic rays during a research assistantship from 1987 to 1993 at the University of Chicago's Enrico Fermi Institute and physics department. He received a bachelor's degree in engineering physics in 1986 from the University of Toledo and a doctorate in physics in 1994 from the University of Chicago. His research interests include the origin of cosmic rays and the study of high-energy gamma-ray emissions from supernova remnants. He has co-authored more than 40 articles and given eight invited talks on gamma rays and the origin of cosmic rays.

Carrie M. Heilman, Ph.D., assistant professor of marketing in the John M. Olin School of Business, received a doctorate this year from Purdue University, where she was an instructor during her doctoral studies. She received a Ph.D. grant for 1996-97 from the Purdue Research Foundation for the work on her dissertation, "Brand Choice Dynamics of Consumers Over Their Lifetime of Purchasing in a Product Category." She received a bachelor of arts degree in 1993 from the College of the Holy Cross in Worcester, Mass., where she majored in mathematics and was an NCAA Division I varsity basketball athlete. Her research interests include the modeling of consumer choice decisions, new products, direct marketing and customer satisfaction.

Matthew O. Howard, Ph.D., assistant professor of social work, comes from Oregon Health Sciences University in Portland, Ore., where he had been a research associate professor since 1996. He previously taught in the schools of medicine and social work at the University of Washington in Seattle. Howard worked as a psychiatric social worker and as a director and researcher in substance-abuse treatment programs at veterans' hospitals. He earned two degrees in psychology: a bachelor's in 1978 and a master's in 1983, from Western Washington University in Bellingham, Wash. He earned a master's degree in social work in 1987 and a doctoral degree in social welfare in 1990, both from the University of Washington. His research interests include substance abuse among adolescents, women, veterans and American Indians.

Amit I. Pazgal, Ph.D., assistant professor of marketing in the John M. Olin School of Business, arrives from Northwestern University, where he was a visiting assistant professor in marketing and a lecturer since receiving a doctorate there in 1996. He was named a University Scholar at Northwestern University each year from 1992 to 1995 and a University Scholar at Tel Aviv University in 1990, 1991 and 1992. His work experience includes five years as an officer with the Israeli Defense Forces and three years at Optimized Production Technology in Tel Aviv and London. Pazgal received a bachelor of science degree magna cum laude in 1987 and a master of science degree summa cum laude in 1992, both from Tel Aviv University. His research interests are pricing, consumer choice and game theory.

For The Record

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

Of note

Linda B. Cottler, Ph.D., associate professor of epidemiology in psychiatry, recently received the W. Scott Johnson Award from the Missouri Public Health Association. This is the association's most prestigious award for distinguished service to the field of public health in Missouri. It commemorates W. Scott Johnson, a sanitation engineer. Cottler, a leader in the field of substance abuse, high-risk behaviors and prevention of HIV infection, works with the St. Louis community to bring health and mental health services to areas characterized by high rates of crime, substance abuse, violence, health problems and poverty. ...

David H. Gutmann, M.D., Ph.D., assistant professor of genetics, of neurology and of pediatrics, has received a \$633,942 three-year grant from the National Institute of Neurological Disorders and Stroke for a project titled "Functional Analysis of NF2 Gene Mutations." ...

David A. Leib, Ph.D., assistant professor of molecular microbiology and of ophthalmology and visual sciences, has received an \$834,703 five-year grant from the National Eye Institute for a project titled "Role of HSV-induced RNA Degradation in Pathogenesis." ...

Jane Loevinger, Ph.D., professor emeritus of psychology in Arts and Sciences, recently was awarded the Division of Evaluation, Measurement and Statistics Lifetime Contributions Award at the 105th annual Convention Program of the American Psychological Association, held in August in Chicago. ...

Kevin A. Roth, M.D., Ph.D., associate professor of pathology and of molecular biology and pharmacology, has received a \$595,120 three-year grant from the National Institute of Neurological Disorders and Stroke for a project titled "Neuronal Selection and the BCL-2 Gene Family." ...

Egon Schwarz, Ph.D., professor emeritus of Germanic languages and literatures in Arts and Sciences and Rosa May Distin-

Robert Gorlin receives dental alumni award

Robert Gorlin, D.D.S., has been awarded the 1997 Distinguished Alumnus Award from the University's Dental Alumni Association. He was honored at the association's annual awards banquet on Sept. 20.

Gorlin, a 1947 graduate of the former School of Dental Medicine, has held joint appointments with the University of Minnesota School of Medicine as professor of pathology, dermatology, pediatrics, obstetrics, gynecology and otolaryngology. He also served as president of the International Association for Dental Research, the American Academy of Oral Pathology and the International Society of Craniofacial Biology.

In addition, Gorlin served for 30 years as editor of the oral pathology section of the Journal of Oral Surgery, Oral Medicine and Oral Pathology.

A resident of Minneapolis, he has written many dental articles, chapters and books and has collaborated on motion pictures. He also is a member of 12 professional societies.

In 1974, Gorlin was awarded the Washington University Founders Day Distinguished Alumnus Award.

Professor emeritus serves city with St. Louis 2004

Annelise Mertz, professor emerita of performing arts in Arts and Sciences, is serving with other members of the University community as part of the St. Louis 2004 organization. Mertz is on the Culture Action Team. A previous article about University involvement with St. Louis 2004 omitted her name.

guished University Professor Emeritus in the Humanities, was selected to receive an honorary doctorate of philosophy by the University of Vienna. ...

Matthew L. Thomas, Ph.D., associate professor of pathology and assistant professor of molecular microbiology, has received a \$647,561 four-year grant from the National Institute of General Medical Sciences for a project titled "Function and Regulation of SHP-1 Tyrosine Phosphatase." ...

Warren G. Tourtellotte, M.D., research instructor of pathology, has received a \$566,998 five-year grant from the National Institute of Mental Health for a project titled "Function of Immediate Early Genes in the Nervous System." ...

In August, the Washington University Student Chapter of the American Society of Civil Engineers was named an Outstanding Chapter in Zone III of the organization. The faculty sponsor of the Washington University chapter is **Kevin Z. Truman, Ph.D.**, professor of civil engineering.

On assignment

Joseph D. Ketner, director of the Gallery of Art, recently participated in the Getty Leadership Institute for Museum Management. The program is open to museum administrators by invitation only and is structured to teach strategic planning and business and financial management. The intensive three-week course, held during July at the University of California at Berkeley, is highly regarded as a professional development program. ...

The Central Institute for the Deaf has named **Nancy Tye Murray, Ph.D.**, as director of research. In this role, she will set research directions and determine research priorities for the institute, determine and monitor the research budget and seek funding, recruit additional research staff in collaboration with research center directors, administer the communication sciences graduate program as part of the Department of Speech and Hearing at Washington University, and share information with the scientific and lay communities. ...

Mary Seager, a graduate student in comparative literature in Arts and Sciences, has been appointed coordinator of the Honors and Liberal Arts Program on the Florissant Valley campus of St. Louis Community College.

Speaking of

Glenn C. Conroy, Ph.D., professor of anthropology in Arts and Sciences and

of anatomy and neurobiology in the School of Medicine, delivered the inaugural Membership Lecture celebrating the 90th anniversary of the School of American Research. The lecture, given in September in Santa Fe, N.M., was titled "Mysteries of Human Origins: Are We the Missing Link?" ...

Mary-Jean Cowell, Ph.D., associate professor in performing arts in Arts and Sciences, presented a lecture-demonstration titled "Blurring the Boundaries of Dance and Theatre" in Kyoto, Japan in July. Cowell discussed avant-garde theatre work in New York in the 1970s and her own work with the Abe Kobo Repertory Company in 1975-76. ...

Henry L. Roediger III, Ph.D., professor and chair of psychology in Arts and Sciences, gave an invited presentation titled "Illusions of Memory: Remembering Events That Never Happened" in the Master Lecture Series at the 105th annual Convention Program of the American Psychological Association.

To press

The seventh edition of "Supervision: Concepts and Practices of Management," a textbook co-authored by **Ray Hilgert, D.B.A.**, professor of management and industrial relations in the John M. Olin School of Business, and **Edwin C. Leonard Jr.**, professor of business administration at Indiana University/Purdue University-Fort Wayne, was recently published. ...

Two projects by **Adrian Luchini**, associate professor of architecture, are featured in recent books. His Maritz-Starek residence project appears in Volume II of "The New American House" series, which deals with contemporary residential architecture in the United States. His project on the Cooper Bauer apartment in Boston is in Volume I of "The New American Apartment" series. Additionally, Luchini's Sixth Church of Christ Scientist project was featured in *Costruire*, an Italian architecture magazine. Luchini also recently lectured in Buenos Aires, Argentina, on his projects.

Guidelines for submitting copy:

Send your full name, complete title(s), department(s), phone number and highest-earned degree(s), along with a typed description of your noteworthy activity, to For The Record, c/o David Moessner, Campus Box 1070, or e-mail David_Moessner@aismail.wustl.edu. Items must not exceed 75 words. For information, call (314) 935-5293.

Campus Authors

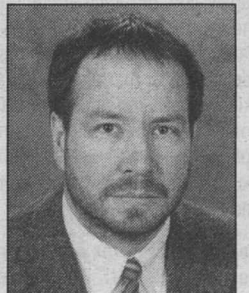
The following is a recent release available at the Campus Bookstore in Mallinckrodt Center on the Hilltop Campus or at the Washington University Medical Bookstore in the Olin Residence Hall. For more information, call (314) 935-5500 (Hilltop Campus) or (314) 362-3240 (School of Medicine).

Settlement Ecology:

The Social and Spatial Organization of Kofyar Agriculture

(The University of Arizona Press, 1997)

Glenn Davis Stone, Ph.D., associate professor of anthropology in Arts and Sciences



Despite the recent growth of cities, most people in the developing world still live in rural areas, and the rural landscape is a topic of keen interest throughout social science. This pioneering study explores deep linkages between the "social and spatial organization" of agriculture in an unusually rich case study of African agricultural ecology.

The subject is the Kofyar tribe of Nigeria, who have achieved a highly productive and sustainable agricultural development over the last 40 years. What is remarkable is that their successful farming is based entirely on indigenous methods, without outside intervention, in an area surrounded by failed development projects. Left alone to devise their own farming and to organize their own landscape, the Kofyar offer a series of important theoretical and practical lessons.

Stone's research draws on colonial archives, earlier anthropological records, his own extensive fieldwork and analysis of aerial photographs. It documents the effects of rising population on agriculture and the subsequent adjustments in social organization of production and political organization of the landscape.

The book has drawn praise from scholars in several fields. Geographer William Doolittle writes: "It cross-cuts disciplinary boundaries like no previous study has done. Stone opens new horizons on the study of settlements." Cultural anthropologist Benjamin Orlove describes it as a "rare balance of theoretical awareness, methodological rigor and empirical detail."

Opportunities & personnel news

Hilltop Campus

Information regarding these and other positions may be obtained in the Office of Human Resources, Room 130, at West Campus. Job openings may be accessed via the World Wide Web at cf6000.wustl.edu/hr/home. If you are seeking employment opportunities and are not currently a member of the Washington University staff, you may call our information hotline at (314)935-9836. Staff members may call (314)935-5906.

Watchman (Licensed) 970260. Police Department (3 positions available). Requirements: high school diploma; capable of being licensed as a watchman in St. Louis County and in the City of St. Louis; one year experience as a watchman or security guard; no convictions or arrests for any felony, theft, assault or sexual offense; ability to interact effectively with members of the University and local community while being sensitive to the uniqueness of individuals and groups; capable of riding a bicycle and operating a two-way radio; must pass medical exam to determine fitness to perform duties of a watchman.

Senior Software Engineer-Internet Services 970263. Office of the Network Coordinator. Requirements: master's in computer science or related field, three to five years experience; solid understanding of Unix-based operating systems and the C/C++ programming language; three to five years experience in managing LANs, WANs and Multiprotocol networks; ability to support users at all levels in the University and work on diverse topics across disciplines. Responsible for the T3 Internet connection, news service, mail gateway, dial-up access and related services; as a member of a small team, the position requires involvement in all aspects of managing the core campus network.

Technical Associate/Programmer 980040. Student Educational Service. Requirements: associate's degree, bachelor's preferred. Designs, maintains and updates multiple databases for tracking SES students; analyzes data requirements, designs and executes focus programs required to produce reports.

Administrative Assistant to Associate Dean and Director of External Affairs 980078. School of Law. Requirements: some college, degree preferred; experience with Windows based word processing, mail merges and e-mail; PageMaker, graphics presentation and WordPerfect, scheduling software experience preferred; good spelling, grammar and punctuation skills; good filing and organizational skills; ability to handle multiple priorities and to communicate well with administrators, faculty and other departments.

Computer Systems Administration 980079. CAIT. Requirements: bachelor's degree; high level of skill in debugging and troubleshooting system set-up and software installation problems; experience with DOS, Windows 95, NT, and network; knowledge of Unix, Netscape HTML and Java or C; punctual; organized; good work ethic; effective interpersonal communications skills.

Receptionist/Secretary 980080. Student Activities. Requirements: high school diploma or equivalent, one to two years college preferred; experience with PCs and word processing; cheerful and courteous disposition; flexibility, attention to detail; and ability to work accurately on numerous tasks with interruptions. Responsibilities include performing receptionist and secretarial duties for the Office of

Student Activities, Student Union and other staff members in the Ann W. Olin Women's Building.

Executive Secretary 980083. General Counsel's Office. Requirements: some college preferred; proficiency in Windows 95, Word 7.0, Scheduler+, Microsoft Exchange and Access 7.0; minimum one year experience in a law firm or in-house legal department; self-motivated and able to perform duties with minimal supervision.

Counselor in Awards/Grants/Alternative Loans 980084. Student Financial Services. Requirements: bachelor's degree; high service orientation with strong desire to work with and help students and their parents; planning and organizing skills and the ability to make timely and sound decisions; ability to accomplish tasks working with others; team building skills; initiative; effective oral communication and active listening skills; excellent written communication skills; ability to tailor writing styles to varying forms of communication; analytical ability; talent for creative thinking; adaptable, flexible, resourceful, tenacious and resilient; ability to create and nurture relationships.

Apartment Referral Service Coordinator 980085. Apartment Referral Services. Requirements: bachelor's in business or real estate preferred, associate degree in business, real estate, or high school diploma and one year apartment management operations experience; personal computer knowledge and proficiency with Microsoft Word, Microsoft Access, Lotus spreadsheet, etc; self-motivated; clear telephone voice; personable, friendly, and able to work well with students. This position is supervised by the associate director of off-campus housing on a daily basis and overall by the director; involves some independent thinking and decision making that can have a financial effect on the department budget; involves supervision of student workers assisting with the operation of the apartment referral service office.

Accounting Assistant 980087. Accounting Services. Requirements: some college preferred; excellent interpersonal skills, a service-oriented communicator who is accessible; a team player; ability to meet deadlines with varying degrees of pressure; ability to handle confidential information responsibly; experience working with personal computers; proficiency in word processing and spreadsheet software; one to three years fund accounting experience, preferably in a complex university environment; experience in FIS, Personnel/Payroll system is required.

Associate Director Graduate MBA Career Advising 980088 (part-time). Business School. Requirements: bachelor's degree or equivalent years of experience in coaching, counseling and advising clients or graduate students, master's degree preferred; 12 or more years related work experience in a university, outplacement firm or the employment/human resources areas of large corporations; strong interpersonal and communications skills; experience in developing publications and marketing; understanding of local, regional, national and academic labor markets.

Manager, Endowment/Gift and Investment Accounting 980089. Accounting Services. Requirements: bachelor's de-

gree, master's preferred; five years progressive experience in administrative or supervisory function; several years public accounting and industry experience (brokerage or university experience a plus); fund accounting experience, preferably in a complex university environment; excellent interpersonal skills; a service-oriented communicator with excellent communication skills; ability to meet deadlines with varying degrees of pressure; experience working with personal computers; proficiency in word processing, spreadsheet and database management software applications; ability to handle confidential information responsibly; and initiative; actively attempts to influence events and others.

Associate Director, Graduate Business Financial Aid 980090. Business. Requirements: bachelor's degree, MBA or similar analytical preparation preferred; minimum three years financial, admissions or administrative experience in university setting; ability to perform work with high degree of accuracy and to establish and maintain positive and cooperative working relationships; strong interpersonal and communication skills; ability to exercise good judgment and make independent decisions and to maintain the security of confidential information; electronic loan application system or computer systems experience preferred. Some travel to recruit MBA candidates.

LAN Engineer 980091. Computing and Communications. Requirements: bachelor's degree in computer science, electrical engineering or related field, or equivalent experience; two years experience working on Apple Macintosh equipment; experience in networking (Appleshare, Appletalk, Ethernet, TCP/IP, etc.); experience as system administrator; experience with Apple operating system software, MS-DOS and Microsoft Windows; people skills for training and systems analysis.

Senior Unix Systems Manager 980094. CEC. Requirements: bachelor's degree required; minimum four years managing Unix systems; good interpersonal skills; willingness to develop NT skills; experience with NT and Ethernet switches a plus. Responsibilities include supporting Universitywide educational and administrative services, including PCS and Unix workstations running Sun Solris SGI Trix, Windows NT, Windows95 and Mac operating systems. Salary commensurate with qualifications.

Senior Project Leader 980096. Computing and Communications. Requirements: college degree preferred; minimum five years experience in business system analysis, design and implementation of human resource or financial applications; good verbal and written communication skills to lead both technical and non-technical team members in developing and implementing efficient and effective business processes; IBM mainframe background using Mantis, Cobol, Total and OS JCL for on-line and batch processing; PC training and experience preferred using newer technology tools such as MS SQL server and Powerbuilder.

Assistant Communications Editor 980099. Undergraduate Admissions. Requirements: some college. Assists the manager of Admissions Communications Programs and the Executive Director of Publications with selected undergraduate recruitment communications, including soliciting, assembling and proofreading copy from the Admis-

sions Office and other University academic and administrative units; experience in writing, editing, design and layout; interest and skill in proofreading; ability to manage multiple tasks and give attention to detail.

Director of Computing Technology and Services 980100. Computer Science. Requirements: bachelor's degree in computer science; thorough knowledge of Unix and NT operating systems; knowledge of Net-BSD and Linux operating systems helpful; familiarity with network management; ability to identify needs for new software tools and acquire or manage development of customs tools, as appropriate; ability to interact effectively with wide range of faculty, staff and students; minimum five years experience managing computer systems and networks; programming experience in C and/or C++; experience managing system administration personnel or strong evidence of management potential.

Administrative Assistant 980101. CAIT. Requirements: associate degree, bachelor's preferred; strong people skills; ability to work well as team member; excellent written and verbal skills; proactive, anticipates problems and seeks solutions; strong follow-up; conscientious; comfortable working with details; excellent computer skills, including Windows 95, Windows Office, Powerpoint and Excel.

Member of Technical Staff, CTS 980103. Computer Science. Requirements: bachelor's degree in computer science, master's preferred; programming experience in C and C++; thorough knowledge of Unix and NT operating systems; knowledge of Net-BSD and Linux operating systems helpful; knowledge of Unix and NT-based networks, including TCP/IP, Cisco routers and Ethernet switches; familiarity with network management, including configuration management and basic troubleshooting; knowledge of ATM networks helpful; ability to maintain software systems in C and C++; knowledge of the WWW, HTML, use of CGI and Java for Internet application development; minimum two years experience managing computer systems and networks.

Member of Technical Staff, CTS 980104. Computer Science. Requirements: bachelor's degree in computer science, master's preferred; programming experience in C and C++; thorough knowledge of Unix and NT operating systems; knowledge of Net-BSD and Linux operating systems helpful; thorough knowledge of Unix and NT-based networks, including TCP/IP, Cisco routers and Ethernet switches; familiarity with network management, including configuration management and basic troubleshooting; knowledge of ATM networks helpful; ability to maintain substantial software systems in C and C++; knowledge of the WWW, HTML; use of CGI and Java for Internet application development; minimum two years experience managing computer systems and networks.

Packet Administrator 980105. Business School. Requirements: high school education; five years secretarial experience; demonstrated communication and proofreading skills; ability to produce high-quality work with speed and accuracy; attention to detail; ability to learn and correctly interpret instructions from faculty and staff; ability to work under time constraints and independently with minimum supervision; strong organizational and interpersonal skills.

Deputized Police Sergeant 980106. Police Department. Requirements: peace officer certification in Missouri for a first class

county; 600-hour peace officer training certificate from a Missouri police academy; deputization as a police officer by St. Louis County Police Department; five years experience as deputized police officer with Washington University and an associate's degree, 60 earned credit hours from an accredited college or university, or five years experience with another law enforcement agency at the rank of sergeant or above.

Receptionist 980107. Undergraduate Admissions. Requirements: high school diploma, some college preferred; receptionist skills; secretarial skills desirable; university experience preferred; ability to greet and direct hundreds of visitors to campus; warm and pleasant personality, along with flexibility, initiative and a sense of humor. The position requires an excellent attendance record.

Analyst, Capital Planning 980109. Financial Planning Office. Requirements: bachelor's degree, MBA or CPA preferred, and relevant work experience; strong conceptual, analytical and quantitative skills; excellent oral and written communication skills; ability to transform complex data into meaningful information and formats; ability to work with various software applications and mainframe systems; understanding of financial concepts; self-motivated, independent, creative and willing to work the hours that are required to meet the goals and objectives of financial planning.

Medical Campus

The following is a partial list of positions available at the school of medicine. Employees interested should contact the Human Resources Department of the Medical School at (314) 362-7196 to request applications. External candidates may call (314) 362-7195 for information regarding applicant procedures or may submit resumes to the Human Resources Office located at 4480 Clayton Ave., Campus Box 8002, St. Louis, MO 63110. Job openings also may be accessed via the World Wide Web at <http://medicine.wustl.edu/wumshr>.

User Support Analyst II 980397. Requirements: bachelor's degree in computer science, electrical engineering or related field; experience in use and programming of Macs, PCs and minicomputers (especially Unix and Sun); excellent communication skills to teach new concepts and methods to computer users; knowledge of networking concepts. Responsibilities include providing technical and non-technical support for departmental computer users; evaluating, testing, designing and recommending hardware and software upgrades; and providing routine maintenance of lab and departmental computing facilities.

Secretary (part time) 980445. Requirements: high school graduate or equivalent with previous secretarial experience; available to work at least four days per week; strong organizational skills and experience with Microsoft Word; 50 wpm typing ability and strong telephone skills. Responsibilities include answering phones; typing correspondence, memos and manuscripts; filing and maintaining documents; replenishing supplies and scheduling meetings and appointments.

Clinic Administrator 980083. Requirements: bachelor's degree, master's degree in accounting, finance or health administration preferred; minimum five years accounting or relevant experience; supervisory experience of professional staff; excellent oral and written communication skills; su-

perior analytical thinking and problem solving ability; and a high level of professionalism to work with different personality styles. Management responsibility for divisional finances, clinical practice development and strategic planning, including management of divisional accounts, budget preparation, financial planning, reporting of financial data, variance analysis and practice management; additional accounting oversight responsibility for grants administration, clinical trials, industry-sponsored projects and endowment funds; recruiting, hiring, mentoring and evaluating support staff.

Professional Rater (part time) 980175. Requirements: high school equivalency, some college preferred (will train exceptional candidate); interviewing skills using DIS; superior communication and organizational skills. Responsibilities include interviewing research subjects using the Diagnostic Interview Schedule; tracking subjects previously enrolled in research study; and working with other staff members to coordinate interviewing children.

Statistical Data Analyst 971250. Requirements: bachelor's degree, master's preferred, in statistics, computer science or related field; experience, preferably in biomedical and/or clinical studies; exceptional organizational and communication skills; report writing skills; SAS experience and proficiency with data analysis and/or data management and PC/Unix knowledge. Responsibilities include performing data management and/or data analysis for research investigators, including designing experiments, clinical trials and epidemiological studies; database design; implementation and maintenance of data collected for research purposes (acquisition, editing and reporting); providing statistical consulting primarily in collaborative studies involving the medical school community; and assisting in the design and development of data entry systems.

Financial Analyst 980285. Requirements: bachelor's degree in business or related field and three to four years related business experience, or MBA or other advanced degree in related field and related work experience as summer intern. Individual needed to assist with general program and finance planning analyses and initiatives at the School of Medicine, including maintaining, enhancing and producing school's Capital Planning Model; serving as lead financial person for annual capital planning retreat; providing secondary support for maintenance, enhancement and production of the school's Resource Allocation Model; for production and development of the school's Faculty Analysis Report/Model; and for continued development of the school's Managed Care Economics Model; assisting with departmental financial/resource planning process, with interinstitutional planning efforts at the Medical Center and with the production and development of other planning models and analyses as needed.

Technologist 980203. Requirements: bachelor's degree in biology, chemistry or related discipline; experience with protein purification; excellent biochemical technical ability and working knowledge of computers. Responsibilities include providing technical support in biochemistry and molecular biology experiments, including protein purification, enzyme assays, cloning, gene expression and tissue culture.