Enriching Rice

Plant scientist Barbara Schaal seeks not only to understand evolutionary history, but to apply findings to improve the world's food crops.
Keeping in Step  Beginning in 1891, Washington University offered students instruction in military science and tactics, and First Lieutenant John Stafford served as the program's first professor. Above: WU cadets exercise through downtown St. Louis in 1893. The smog hanging overhead was present because of once prevalent coal-burning homes and factories. (See page 14 for an article on current University ROTC programs.)
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Short takes on WU's community of great minds and great ideas.

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Three alumni describe their favorite teachers.

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Collaborating with students and peers in her field, plant scientist Barbara Schaal researches theoretical genetic questions that may have practical applications for the world's food crops.

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In the aftermath of the attacks of last September 11, students are showing a newfound interest in, and appreciation for, the Army and Air Force ROTC programs.

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25 Touched by the Arts
Making education the Center of Contemporary Arts' primary mission, executive director Stephanie Riven, A.B. '69, M.S. '71, has extended the organization's reach—giving thousands of area children and adults an opportunity to dance, play music, and make art.

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Alumnus Jeff Lebesch and Kim Jordan are the husband-and-wife dynamic duo of New Belgium Brewing Company. Starting out in the couple's basement in 1991, New Belgium now employs 150 people and produces its flavorful beer in a beautiful Colorado plant.

31 Combined Studies: Creating a Lifetime of Options
At both the undergraduate and graduate levels, Washington University's talented, inquisitive students pursue their interests across academic boundaries—creating combinations and career opportunities both exciting and unexpected.

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Featuring Career Connections, a new online service for WU alumni; the "Passport to Knowledge" travel program in October 2002; and "Month of Caring" events also in October.

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A series spotlighting key faculty and staff who help make this great University run.
Older Adults Can Improve Memory
Teaching memorization strategies that can encourage the brain to work more effectively can reduce certain memory difficulties associated with aging, according to research from the Howard Hughes Medical Institute. Researchers used sophisticated functional magnetic resonance imaging scans to monitor brain activity in older and younger adults while they memorized words and pictures. The younger group, whose left frontal cortex lit up as they did the task, performed better. For the older adults, that area didn’t light up until they were told not just to memorize a word but also to make an association with it—deciding, for example, whether it was abstract or concrete. After that, their performance improved dramatically.

Researchers included WU graduate student Mark Wheeler (near right) and Randy L. Buckner, associate professor of psychology in Arts & Sciences and of anatomy, neurobiology, and radiology in the School of Medicine.

Drug Reduces Risk of Schizophrenia Relapse
Risperidone, a second-generation antipsychotic drug, lowers the risk of relapse in patients with schizophrenia by nearly half, as compared to the older drug haloperidol, according to a team of researchers led by psychiatrists at the School of Medicine.

Their study involved nearly 400 patients with schizophrenia, who were treated at 40 sites around the United States and who had a relapse within the 24 months prior to the start of the study. Investigators spent two years comparing the rate of relapse associated with each drug, finding that the rate associated with risperidone was only about 25 percent, whereas the rate with haloperidol was about 50 percent. As for side effects, past studies proved that risperidone has fewer short-term side effects than older drugs. This study proved it also has fewer long-term side effects.

“Schizophrenia is a chronic psychiatric illness,” explains John G. Csernansky, the Gregory B. Couch Professor of Psychiatry and the study’s principal investigator. “Relapse is common even under the best of circumstances, with an average patient relapsing at least once every one to two years.

“Reducing the rate of relapse is a tremendous benefit to the patient, but it’s also a benefit for the family and the system of care that has to pay for the hospitalization that often goes along with relapse,” he adds.

Saving Children in Africa
Hundreds of malnourished children in Malawi, Africa, are now thriving, thanks to pediatrics specialist Mark Manary’s experiment using peanut-butter food. Manary, M.D. ’82, H.S. ’85, an associate professor of pediatrics in the Division of Emergency Medicine at the School of Medicine, has spent much time in Africa, along with his wife, Mardi, a pediatric nurse.

For the past 16 years, the couple has led a “double life,” dividing time between America and Africa. Now, Mark Manary spends about half the year working as an attending physician in the Emergency Unit at St. Louis Children’s Hospital, where he also serves as a preceptor for pediatric house staff and medical students. The other half, he’s in Malawi, helping children avoid starvation.

In Malawi, a country with a population of 10 million and an area the size of Missouri, about half the children are chronically undernourished.

To help them, last year Manary tested a peanut-butter mixture containing vitamins, minerals, oil, sugar, and milk powder—which he ordered from the French organization Médecins Sans Frontières.

Working with 500 children aged 1 through 5, he compared progress of those who used the mixture as their only food, with those who used it as a dietary supplement, and with those who did not use it but were provided with sufficient corn and soy flour for their traditional diet. The group using the peanut-butter mixture most fared the best by far, enjoying a 95 percent recovery rate.

This summer, Manary plans to test a formula based on native-grown peanuts and to expand the therapy to children less than a year old as a way to prevent malnutrition.
Is Cooperation the Driving Force?

Research by two primatologists—one from Washington University and one from the University of Illinois at Urbana-Champaign—shows that cooperation, not competition, is likely the main driving force of social behavior in humans and other primates.

Robert W. Sussman, professor of anthropology in Arts & Sciences at Washington University, and Paul Garber, Sussman's former graduate student who now is professor and chair of the anthropology department at the University of Illinois, base their theory on extensive research, including firsthand, long-term observation of primate behavior.

"The basic premise about animals that live in groups— including humans—has been that they are constantly competing for resources," Sussman says. "Many anthropologists have believed that all behavior is related to how animals strategize to compete with one another so that they can gain more resources and reproduce more." That theory, he adds, is based on data derived from a focus on competition and aggression to the virtual exclusion of cooperation and affiliation.

Sussman and Garber found that aggressive interactions among primates were extremely rare. "Usually less than 1 percent of their day is spent fighting or competing," Sussman says. About 9 percent is spent in affiliative, or cooperative, behavior such as grooming, touching, or playing, and about 90 percent of their time is spent in non-interactive maintenance behavior such as feeding, sleeping, and traveling.

"Basically, what animals do is they interact in a general, coordinated way," Sussman says. "Aggression may be just sort of a byproduct of being social, not the driving factor of how we organize our social life. Altruism and affiliation may be much more important as an organizing factor in the social interactions of primates."

Center for Aging Is Established

To meet the needs of the increasing population of older Americans, the University has established a new, University-wide Center for Aging. "This collaborative effort aims to help older adults achieve a more satisfying quality of life," says John C. Morris, director of the center and the Harvey A. and Dorismae Hacker Friedman Professor of Neurology in the School of Medicine.

The center—made possible by a gift from Harvey A. Friedman, a semiretired businessman who attended the University in the early 1940s, and Dorismae Hacker Friedman, A.B. ’42—is named in their honor.

Organized around research, education, and service, the center will award grants to WU researchers from a wide range of disciplines, will support existing aging-related programs, and will facilitate learning opportunities for older adults as well as educate younger individuals about aging. Its service initiatives will includeos the annual Friedman Lecture on Aging, which, on April 9, featured John W. Rowe, co-author of Successful Aging.

Lizard Man

Jeremy Gibson-Brown, assistant professor of biology in Arts & Sciences, meets Morton, a bearded dragon. Gibson-Brown is one of five University collaborators researching the evolution and developmental genes of the dragon's distant cousins—Anolis lizards.
Student Creates Newspaper to Help Homeless

Senior Jemal "Jay" Swoboda (above), majoring in economics in Arts & Sciences, is publishing the first newspaper in St. Louis for the homeless. Called What's Up St. Louis, it debuted February 1 and is designed to raise awareness of homelessness in St. Louis and to help homeless people by paying them to help produce and sell the 32-page, black-and-white monthly. Receiving 20 free copies initially, the 20 to 30 homeless people who sell the magazine-style newspaper receive $1 for each copy sold. After they sell their entire first allotment, they can purchase additional copies for 25 cents each, pocketing the remaining 75 cents from each sale.

Articles covering affordable housing, health care, welfare reform, and job training, as well as the plight of the homeless, will be written by homeless persons and others. "Our mission is to empower men and women who are homeless or at risk of being so, as they work toward gainful employment and self-sufficiency," Swoboda says. He got the idea for What's Up St. Louis when he worked for AmeriCorps in Boston, where a friend had a similar publication.

Swoboda has expended much time, energy, and money on the newspaper, published from a back room in his apartment. He also recently received a $6,000 small-business loan from Justine Petersen, a local reinvestment corporation.

Though Swoboda graduated in May, he has committed to stay to work on the newspaper until at least June 2003.

Joint Business Degree Program Begins in Shanghai

The first class of students in the Executive Master of Business Administration (EMBA) program offered jointly by Washington University's Olin School of Business and Fudan University, of Shanghai, began course work at Fudan University in April. Three other courses in the 18-month program were strategic management. The other courses include corporate finance, entrepreneurship, power and politics in organizations, international economics, and competitive industry analysis.

Each course will be co-taught in Shanghai in English by two Olin business school faculty members and one Fudan faculty member. "Together, Olin and Fudan will chart new waters to help prepare China's future business leaders," says James T. Little, professor of finance and economics for the Olin School and coordinator of the new program.

Key candidates for the program are Chinese nationals who are working for multinational companies in Shanghai. The inaugural class, at capacity of 74 students, hails from major companies including Accenture, Alcoa Aluminum Products Co., Dupont, Ericsson, General Mills, Honeywell, Kodak Electronic Products, Monsanto, Motorola, and Shanghai General Motors Corporation, and from state-owned enterprises such as the Shanghai Stock Exchange. Sixteen applicants are wait-listed.

Two founding sponsors of the program, Anheuser-Busch Foundation and Emerson, underwrote its startup.

In culmination of the program, students will have a two-week residency at the Olin School in September 2003, staying at the recently completed Charles F. Knight Executive Education Center. Those successfully completing the program will receive an M.B.A. degree.
College (Tennessee) in the NCAA second round. In the final seconds of the third round, they lost 90-87 to DePauw University (Greencastle, Indiana), on March 8, at Otterbein College, in Westerville, Ohio.

The women’s 70 home-game winning streak—longest in the NCAA, men or women—ended on March 2, in the NCAA second round. Winners of four consecutive national championships, the team lost 66-60 to the University of Wisconsin-Stevens Point.

Nighttime Dialysis Benefits Patients

Nocturnal dialysis could revolutionize care for many of the nation’s 300,000 patients suffering kidney failure. It means that a patient can hook himself or herself up to a nearly 5-foot-tall “mechanical kidney” machine next to his or her bed at home and fall asleep. That means no more daytime treatments lasting three to four hours, three or four times a week. With daytime hours freed up, patients can focus on a full-time job or other activities and less on their disease.

Brent Miller, assistant professor of medicine at the School of Medicine and director of home hemodialysis at the Barnes-Jewish Hospital Dialysis Center, is one of a handful of doctors in the nation teaching patients how to do dialysis at home. About 10 patients in St. Louis are using it; as many as 20 percent of dialysis patients may be potential candidates for overnight dialysis. That number could go higher if the easier-to-use machines being developed go on the market. Nocturnal dialysis takes place six nights a week, lasting about eight hours each time.

Diabetes and high blood pressure are the major causes of kidney failure, leading to the need for dialysis.

Eight faculty have been honored with named professorships: Siddhartha Chib, professor of econometrics and statistics for the Olin School of Business, is the Harry C. Hartkopf Professor; John N. Drobak, professor of law in the School of Law and professor of economics in Arts & Sciences, is the George Alexander Madill Professor of Law; Jeffrey I. Gordon, Alumni Professor and head of the Department of Molecular Biology and Pharmacology in the School of Medicine, is the first Dr. Robert J. Glaser Distinguished University Professor; David H. Gutmann, associate professor of neurology in the School of Medicine, is the first Donald O. Schnuck Family Professor in Neurology for Neurofibromatosis Research; Adrian Luchini, professor of architecture in the School of Architecture, is the Raymond E. Maritz Professor; Lynne Tatlock, professor and chair of the Department of Germanic Languages and Literatures in Arts & Sciences, is the Hortense and Tobias Lewin Distinguished Professor in the Humanities; Erik Trinkaus, professor of anthropology in Arts & Sciences, is the first Mary Tileston Hemenway Professor; and James V. Wertsch, professor and chair of the Department of Education in Arts & Sciences, is the first Marshall S. Snow Professor in Arts & Sciences.

Ghislane Crozaz, professor of earth and planetary sciences in Arts & Sciences, has been elected a fellow of the American Geophysical Union.

Philip E. Cryer, the Irene E. and Michael M. Karl Professor of Endocrinology and Metabolism and director of the Division of Endocrinology, Diabetes, and Metabolism in the School of Medicine, received the Claude Bernard Medal from the European Association for the Study of Diabetes.

Rebecca S. Dresser, the Daniel Noyes Kirby Professor of Law in the School of Law and professor of ethics in medicine in the School of Medicine, was named to President George W. Bush’s Council on Bioethics.

William Kohn, professor emeritus in the School of Arts, has received the 2002 Missouri Arts Award.

Richard A. Loomis, assistant professor of chemistry in Arts & Sciences, received a David and Lucile Packard Fellowship for Science and Engineering.

Margaret Perkinson, assistant professor in occupational therapy in the School of Medicine, was elected president of the Association for Anthropology and Gerontology.

Carl Phillips, professor of English and of African and Afro-American studies and director of the Creative Writing Program in Arts & Sciences, won this year’s Kingsley Tufts Poetry Award.

Mark Smith, associate dean in the School of Law, was elected president of the St. Louis Police Board.

Edward L. Spitznagel, Jr., professor of mathematics in Arts & Sciences, received the Deborah and Franklin Tepper Haimo Award for Distinguished College or University Teaching of Mathematics.

Robert H. Waterston, the James S. McDonnell Professor of Genetics, head of the Department of Genetics, and director of the Genome Sequencing Center, and two former colleagues share the new $1 million Dan David Prize for developmental biology research.

Trustee emeritus Sam Fox, chairman and chief executive officer of Harbour Group Ltd., was chosen “man of the year” by the St. Louis Variety Club.

Chancellor Mark S. Wrighton was elected to the board of directors of the National Association of Independent Colleges and Universities.
New Parkinson's Treatment Receives FDA Approval

In January the Food and Drug Administration (FDA) approved deep brain stimulation of the subthalamic nucleus as a treatment for Parkinson's disease (PD). Doctors are hoping the FDA approval will make the treatment more accessible to the public and more readily covered by health insurance companies.

Stimulation comes from an implanted Medtronic Inc. device that delivers continuous, high-frequency electrical signals to disrupt brain signals that otherwise cause disabling symptoms. PD patients may experience symptoms including tremor, slowness of movement, stiffness, and difficulty talking. The device's metal generator, about the size of a heart pacemaker, is generally implanted near the collarbone. It is battery-operated.

The deep brain stimulator was FDA-approved in 1997 for use in the thalamus region of the brain, to reduce tremor. Though that approval did not specifically address the use of deep brain stimulation in the nearby subthalamic nucleus, it did allow physicians to use the device in ways they felt were beneficial for the patient. Therefore, a team of neurologists and neurosurgeons at the School of Medicine, who are physicians at Barnes-Jewish Hospital, have been implanting the stimulator in both the thalamus and in the subthalamic nucleus for the past few years with excellent results. The treatment has fewer risks than related surgical procedures and reduces the amount of medication needed.

"This may be one of the best treatment options available for selected patients with advanced Parkinson's disease, but not all patients are good candidates for this surgery," says Fredy J. Revilla, a neurologist at the University's Movement Disorder Center. "Those who already have undergone the procedure have had dramatic improvements."

Joshua L. Dowling, assistant professor of neurological surgery at the School of Medicine, and Keith M. Rich, associate professor of neurological surgery, of radiology, and of anatomy and neurobiology, already have implanted the device in nearly 100 patients with Parkinson's disease and other forms of tremor.

E-coli Bacteria Produce Alzheimer-linked Fibers

School of Medicine researchers have found that certain strains of the bacterium Escherichia coli produce amyloid fibers similar to those that can accumulate in the brain to form senile plaques, a hallmark of Alzheimer's disease. Scott J. Hultgren, the Helen Lehbrink Stoever Professor of Molecular Microbiology, led the study, and Matthew R. Chapman, postdoctoral fellow in molecular microbiology, was first author.

"This finding ... may allow us to begin designing drugs that will ... treat or prevent human amyloid diseases," Hultgren says. It also raises the important question of whether bacterial infections play some role in amyloid diseases, including Alzheimer's.

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Lecture Stresses Sexual Responsibility

In her Assembly Series talk, titled *Sex and Intimate Relationships*, sociologist Pepper Schwartz, A.B. '67, M.A. '69, was lively, witty, serious, and funny. She also was clear about the importance of being responsible for sexual behavior and the role that sexual behavior plays in intimate relationships.

Her talk, on February 13, was the keynote address for student-sponsored activities known as Sex Week.

A noted author and professor of sociology at the University of Washington, Schwartz specializes in research and education related to sex, love, women's health, and relationships.

Business Students Experience the Euro Zone

Twenty-seven undergraduate students in the Olin School of Business made a week-long European tour beginning January 27 as part of their study of European finance and the effects of European Union (E.U.) countries converting to a single currency, the euro, on January 1, 2002.

The students—25 from the London internship program and two from the Paris internship program—visited four cities—Brussels, Belgium; Frankfurt, Germany; Stuttgart, Germany; and Zurich, Switzerland. In this inaugural European study tour for Olin School undergraduates, students divided into four groups, with each group researching the economic dynamics of one city. Their assignment was to make a case for their city to be chosen as the new European headquarters for a hypothetical U.S. bank. Their presentations were judged in Zurich by University alumna Sophie Huang, A.B. '88, a director of the Union Bank of Switzerland (UBS) there.

Students learned how citizens in E.U. countries reacted to the new currency, how it would affect trade in Europe, and how it would influence the rest of the world.

Included in their tour was a visit to the Frankfurt Stock Exchange, Germany's major financial center; the European Center Bank, also in Frankfurt; the Stuttgart Institute of Management and Technology; and the Zuercher Kantonalbank, in Zurich. Also in Zurich, at UBS, they heard a senior economist discuss the current global recession and the consequences of Switzerland's decision not to join the European Union.

Gowns in the Gallery

Fashion design senior Haley Leibowitz adjusts her creation on model Natasha Lindor at the School of Art's Gowns in the Gallery event on February 15 at the School's Des Lee Gallery. The intimate showing featured junior and senior fashion design students' evening-dress creations inspired by the Quilt National Exhibition. It afforded students crucial experience in explaining and promoting their concepts and designs on a face-to-face basis and offered an early look at the University's Fashion Show, a full-blown Paris-style extravaganza that hit the catwalk on May 5.
Three Washington University alumni share lessons they learned from their favorite professors.

Elizabeth Schreiber (1908–1992)
Associate Professor Emerita of French

Joan Sublett: “In the late 1950s, there were very few female teachers at WU, and no one talked about role models for women. Much later I realized that Elizabeth Schreiber, my beloved French teacher, was my only female teacher at the University. She was passionate about the French language and everything French. She gave her students many opportunities to tap into her passion. On one occasion she hosted a dinner of French cuisine, and we spent the day cooking and talking in French. She encouraged us to go to France, and when we did, she met us there and spent a day with us.

“After graduate school, I taught French at University City [Missouri] High School for several years and supervised student teachers for the University, but after I landed in California, I found my own passion and became a therapist and later an administrator in the county alcohol, drug, and mental health system.

“A few years ago a classmate and I met Mme. Schreiber for lunch. ‘Are you keeping up your French?’ she asked. I admitted that I was not and explained that I had realized later that my love of the French language and culture had more to do with her and her passion than with my own. While my career had taken another direction, I had incorporated Mme. Schreiber’s passion and commitment to a subject at a deeper level. She taught me how a woman can make a place for herself by following her heart and giving it her best. This lesson has served me well.”

- Joan Zeffren Sublett, A.B. ’51, M.A. ’65, was deputy director, Yolo County Department of Alcohol, Drug, and Mental Health Services, Woodland, California, until retiring in March 2002.

Richard Allan Watson
Professor of Philosophy

Steven Nadler: “‘What is Socrates saying here? What is justice? How would you respond? What’s the problem with this solution?’

“I had no idea what to expect when I took Introduction to Philosophy in the fall of my freshman year. I was ready to adopt the standard track in preparation for law school. Then this man came bounding in every Monday morning with such energy, bounding around, posing relentless questions. I think his idea was to infect us with his enthusiasm for philosophy. He succeeded—fairly soon, I had totally transformed what I wanted to do with my life.

“Now that I try to model my teaching on his, I realize how difficult and exhausting it must have been for him to maintain that level of energy.

Former U.S. Senator Thomas Eagleton
University Professor Emeritus of Public Affairs

Mark Satisky: “Part of what initially drew me to Washington University was Senator Eagleton’s national stature. His class, The Common-Law Marriage of Business and Government, was co-taught with Murray Weidenbaum [now the Edward Mallinckrodt Distinguished University Professor]. The class had a reputation among students as being ‘two grumpy, old men jawing at each other!’ This course took graduate students, business school students, students from all over—you had to apply early to get in.

“Senator Eagleton was extremely dynamic; he had an ability to captivate an audience. Sometimes something Professor Weidenbaum said would fire him up; then, his voice would swell, and he would start hitting his hands together. You would think he was back in the Senate! He could deliver a very passionate speech. His was a liberal slant, and as a conservative business student, I drifted more toward the Republican stance. Yet, he managed to be passionate and rational, which really opened my eyes.

“They were both fascinating people, and there was a lot of discussion between them. Professor Weidenbaum would say how proud he was to have been one of the architects of Reaganomics; Senator Eagleton would counter that this was an unmitigated disaster because of spiraling deficits. Weidenbaum would argue that that was because the Democrats had stymied the comprehensive implementation of his plans and so on ... History unfolded before us in the classroom!

“Together they conveyed how important it is to look at the social and economic consequences of political decisions. That’s something I still think about.”

- Mark Satisky, B.S.B.A. ’86, is studying for an M.B.A. at Duke University.

Mark Satisky: “I discovered him as a scholar when I started to write my dissertation. Red had written a seminal book in the area of my dissertation topic, yet he left the door open for more questions to be asked, for deeper probing. We’ve been in close contact ever since. I rarely write a thing without his checking it—not so much the philosophical content anymore, but Red happens to be a brilliant editor with a whole pack of red pens!

“In academia you think of your adviser as your academic parent, someone there to support and encourage; Red is my academic father.”

- Steven Nadler, A.B. ’80, is professor of philosophy at the University of Wisconsin at Madison.
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Sample Rates of Return

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Design by Jeffrey St. Pierre '01/Create Studio at Washington University
Growing a Vision:

TO IMPROVE THE WORLD'S FOOD CROPS

Collaborating with students and peers, Professor Barbara Schaal researches the evolutionary genetics of plants in hopes of enriching crops such as cassava and rice.

by Janni Simner

Rice flour muffins and cassava cheeseballs are not ordinary student fare—unless you’re in Barbara Schaal’s undergraduate Plants and Civilization class.

“Because we’re learning about the human uses of plants, every day she brings in something we can taste, usually some exotic plant that we’ve never seen before,” says Brian Hamman, A.B. ’02.

For plant geneticist Schaal, it’s just one more way of passing on the enthusiasm she feels for her subject. That enthusiasm has informed her teaching at all levels, and her own quest to better understand evolutionary history—a quest whose results ultimately may improve the very crops she encourages her students to sample.

She first learned about one of these crops through the enthusiasm of another researcher, Robert Bertram of the U.S. Agency for International Development. Bertram came to her lab in 1989 bearing wild plants from South America and Mexico. The plants were all members of the genus Manihot, and Bertram wanted to trace the evolutionary origins of their domesticated relative, Manihot esculenta, commonly known as cassava.

“I didn’t know what cassava was,” recalls Schaal, who was recently named the Spencer T. Olin Professor of Biology in Arts & Sciences, and who also holds an appointment as professor of genetics at the School of Medicine. “But I said I was sure we could find its ancestors.” Doing so proved more complicated than Schaal first anticipated, but it ultimately proved of great importance.

Most Americans have sampled cassava as the main ingredient of tapioca pudding. For residents of sub-Saharan Africa, however, the starchy underground stems of this plant serve as the population’s number one source of calories. The Portuguese had brought cassava to Africa more than 300 years ago. Some scientists thought the plant descended from a wild ancestor in Mexico; others suspected it was a hybrid of several “parent” plants—but no one knew for certain.
That ignited Schaal’s enthusiasm, and also her sense of justice. “Here was the sixth most important food crop in the world, and we didn’t even know where it had been domesticated. That just didn’t seem right.” Especially since, as a non-native plant, cassava lacked resistance to African diseases such as the cassava mosaic virus, which regularly reduced food yields and caused famines. If found, cassava’s progenitor or progenitors could potentially increase the genetic diversity—and thus the disease resistance—of cassava crops.

Schaal, who had already answered evolutionary questions about native North American plants such as Mead’s milkweed, began her research by looking for differences and similarities in the DNA sequences of *Manihot* species. Her work was collaborative from the start. She worked with Bertram; Washington University graduate student Kenneth Olsen, A.B. ’91, Ph.D. ’00; and Luiz Carvalho of EMBRAPA, the Brazilian Agriculture Research Corporation.

Ordinary DNA sequencing soon proved inadequate. *Manihot*s history included a period when the number of species increased...
relatively rapidly, and this made analysis difficult. Schaal shifted her focus, examining rapidly evolving portions of individual genes.

The technique she used relied on a polymerase chain reaction (PCR), which is the genetic equivalent of a high-speed Xerox machine. A PCR takes double-stranded segments of DNA, “unzips” them, and uses each single strand as a template to create a new double strand. When the process is allowed to repeat itself continuously, millions of copies can be created in a few hours. The result was that Schaal’s initially small gene samples could be amplified into something “large” enough to study.

Using the resulting data, Schaal and Olsen began recreating cassava’s family tree. Their focus turned to a single gene, glyceraldehyde 3-phosphate dehydrogenase. Cassava’s origins gradually became clear. The plant descended from a single subspecies, but not one found in Mexico. Rather, cassava’s ancestor was the *Manihot esculenta* subspecies *flabellifolia*, which grows on the southern border of the Amazon River Basin in Brazil.

In 1999 Schaal and Olsen published this finding in the *Proceedings of the National Academy of Sciences of the United States of America*, as well as in the *American Journal of Botany* and *Molecular Biology and Evolution*. Varieties of *flabellifolia* have already been placed in germplasm collections, and some native populations are now protected in conservation preserves.

Schaal finds this practical application immensely exciting. “It’s wonderful to take basic scientific techniques and use them for applied problems,” she says. “We not only get to better understand basic evolution, but the research has value beyond that, too.” Addressing such applied problems has become as much a focus of Schaal’s work as the theoretical questions she strives to answer.

“It’s wonderful to take basic scientific techniques and use them for applied problems,” Schaal says. “We not only get to better understand basic evolution, but the research has value beyond that, too.”

“T”he impact of Barbara’s work is felt worldwide,” says Ralph Quatrano, chair of the Department of Biology and also the Spencer T. Olin Professor. “Not only has she been able to do this work, but its quality is so high.” That quality is also recognized by many foundations that help fund Schaal’s research, including the National Science Foundation, the Rockefeller Foundation, and the Guggenheim Foundation.

In her laboratory, Quatrano says, Schaal has a talent not only for asking the right questions, but also for encouraging the graduate students and others working in the lab to do the same. “When a graduate student comes in, I sit down and ask, ‘What are you interested in?’” Schaal says. “We come up with a project that the student feels really passionate about.”

Graduate student John Gaskin, whose research focuses on invasive plants, says this approach works well. “We take our ideas and run them by Barbara, and if they’re good enough, we’re free to pursue them.” The result is a lab with a wide range of projects at any time: everything
from analyses of plant stem anatomy and flower development to studies of disease resistance in tomatoes and the evolutionary origins of jacte, a tropical fruit.

A collaborative spirit permeates all this work. "We learn from the other students," Gaskin says. "The older students help the younger ones, and sometimes the younger ones know more than the older ones." He adds that Schaal herself "is very accessible. Her door is always open."

Schaal's accessibility extends to the larger Washington University community. As a member of the Curriculum Implementation Committee, she has worked with colleagues in other departments to improve students' undergraduate experience at the University. As a member of the Academic Planning Committee, she works with Edward S. Macias, executive vice chancellor and dean of Arts & Sciences, to help plan the overall future of Arts & Sciences. "A key member of our faculty, Barbara is a splendid teacher, a leader in her field, and an enthusiastic participant in our interdisciplinary endeavors," Macias says. "She brings excellent ideas and thoughtful, sensible advice to the wide range of issues that come before our Academic Planning Committee. I know that other faculty members, too, rely on her good judgment and want to work with her."

As a member of the National Academy of Sciences, Schaal takes her skills beyond the University into the larger scientific community. She serves on the Life Sciences Board of the academy's National Research Council, and she heads the academy's standing Committee on Agricultural Biotechnology, Health, and the Environment. In these roles she's helped advise the U.S. government on everything from stem cell research and science education to the effects of genetically modified plants on biodiversity.

Her own research remains concerned with theoretical genetic questions that have practical applications for the world's food crops. "I think the whole issue of hungry populations—and the social unrest that results—is a real concern for us all," she says. Her focus has shifted from cassava to rice, and she's begun looking at the migration of genes in Thailand's rice strains. She hopes to analyze the biodiversity of wild and domesticated varieties to understand what effect genetic modification of rice crops might have on rice species as a whole. Once again the project is a collaboration, this time with scientists at Chiang Mai University in Thailand. The work is funded by the U.S. Agency for International Development and the McKnight Foundation.

Schaal remains enthusiastic about both the theoretical and applied aspects of her work. "It gives me a lot of pleasure just to figure things out," she explains. "I basically want to comprehend better how the world works."

It is a goal in which all her collaborators play a part. "I really feel like we're cogs in a wheel," Schaal says. "We're all providing bits and pieces of information, and our goal is to slowly understand the natural world."
Throughout its long history at Washington University, dating back to 1919, the Reserve Officers Training Corps (ROTC) has seen its fortunes wax and wane. ROTC was popular, for instance, around both world wars. It was very unpopular, however, during the Vietnam War.

In recent years, many people on and off campus have been barely aware that Washington University students could participate in the Army's Gateway Battalion, based on campus, or in the Air Force's Gateway Detachment 207, based at Saint Louis University. Each program includes students from several St. Louis-area colleges and universities. (Of the 90 students in the Army battalion, 31 are Washington University students. Of 156 students in the Air Force detachment, 14 are from Washington University.)

This relative invisibility ended last September 11. Because of the terrorist attacks that day and the resulting ongoing war, military matters have moved front and center. "ROTC is more acceptable than it has been for a long time," says Washington University's James W. Davis, professor of political science in Arts & Sciences, director of the Teaching Center, and informal adviser to the battalion.

Cadets seem to agree. "There's more respect now for the uniform and the person wearing it," says Army Cadet Scott Poznanski, Engineering Class of '04. "More of my peers understand that I'm getting ready to protect them and their way of life, but many still think I'm a little crazy."

The majority of undergraduate students would not want to meet the Army ROTC's physical demands—starting hour-long workouts at 6:30 a.m. three days a week, passing fitness tests and field training including rappelling and obstacle courses, eating meals ready-to-eat (MREs) during field operations, and maintaining an acceptable body weight. Nor would they want...
Some of the Army ROTC’s finest include (clockwise from lower left) Carolyn Beata, Arts & Sciences Class of ’04; Scott Poznanski, Engineering Class of ’04; Nickolai Detert, Business Class of ’04; and Joshua Warren, Engineering Class of ’04.

Leadership is a prime focus of ROTC. “We still teach skills such as giving first aid, operating a radio, and reading a map,” says Army Lieutenant Colonel Gary M. Griggs, professor of military science and battalion commander at Washington University, “but now we emphasize leadership and management training.” The Air Force ROTC also emphasizes leadership, especially as it relates to technology, according to its commander, Lieutenant Colonel Julie B. Delespesse, professor of aerospace studies at Saint Louis University.

Cadets truly value the experience. “The discipline involved has helped me with my study habits,” says Air Force Cadet George Bell, Arts & Sciences Class of ’04. “Through the Air Force I hope to go to law school and into politics.” Poznanski, a biomedical engineering major who is also a linebacker on Washington University’s football team, says the skills he has learned—how to motivate people to do things for the good of the group, how to counsel soldiers on their social problems, and how to make presentations and communicate with all levels of command—will help in any career.

“Whatever paths they pursue—corporate management, the Army, or whatever—these bright young people will end up making a difference, and they’ll have an appreciation of the military,” says Lieutenant Colonel Constance M. Carpenter, who retired two years ago and now works on contract with the Army.

Carpenter, who is in charge of recruiting for the Gateway Battalion, says an important draw for both programs is the financial support they offer. For 2002-2003, the Army will provide 11 four-year, full-tuition scholarships at Washington University, amounting to $29,000
"We still teach skills such as giving first aid, operating a radio, and reading a map, but now we emphasize leadership and management training."

Right: Before the Homecoming football game at Francis Field, on September 30, 2001, the Army's Gateway Battalion Color Guard presented battalion and national flags for the national anthem.

Top: ROTC cadets graduate as second lieutenants, and scholarship recipients are under contract to serve four years of active duty upon graduation.

Far right: Army Cadet Carolyn Beata participates in a "water survival skills" exercise at the Athletic Complex pool.

Operating a radio, and reading a map, but now we emphasize leadership and management training.

Dressed in full BDUs (battle dress uniforms), blindfolded cadets jump into the pool and swim to the side, keeping their mock-M-16s raised.

annually per student. The University will add $8,000 to each for room and board, as an incentive. Competition for scholarships, four-year or otherwise, is strong. (There were 143 applicants for the 11 four-year scholarships.) The same kinds of scholarships and incentives are available to Air Force ROTC cadets.

However, for a cadet to be successful, he or she must be motivated by more than the funding, according to both Griggs and Delespesse. "Applicants, especially this year, express strong patriotism," Griggs says. Delespesse adds that another frequent motivator is having a family tie to the military.

For instance, both of Scott Poznanski's grandfathers were in military service. On the other hand, some cadets, such as Army Cadet Carolyn M. Beata, Arts & Sciences Class of '04, are the first in their families to be in the military. A Spanish major and a member of Kappa Kappa Gamma sorority, she says there is great camaraderie between male and female cadets, adding that the most difficult thing for her has been learning about weaponry. "Most boys played with GI Joes® as kids, so they know about M-16 rifles and AT-4 rockets," she says, "but, to me, weapons were foreign."

"The percentage of women in ROTC is increasing," says Carpenter. In the Army's Gateway Battalion, 31 percent of cadets are women. In the Air Force detachment, 28 percent are women. Carpenter says, "In the military, there is no 'glass ceiling.'"

T

hough the military bans discrimination based on gender, it still discriminates based on sexual orientation. Among those openly protesting its "don't ask, don't tell" policy have been individuals at Washington University's law school. For many years, until the University's federal funding was threatened, the law school refused to allow military recruiters to recruit inside Anheuser-Busch Hall. Many observers feel the military's policy will not change until there are more tolerant persons in higher ranks.

In the meantime, the policy has not deterred each program's steady rise in applications and in its ranking. The Air Force's Gateway Detachment is in the top 10 of 143 U.S. detachments, according to the size of the cadet corps. Based on quality of programs, the Army's Gateway Battalion is ranked No. 24 out of 270 nationwide, having moved up from No. 107, its rank when Griggs arrived in 1997.

Griggs and his staff greatly improved recruiting and are credited with the rise. "Griggs has done a great job. He has been very instrumental in a reversal of fortunes for WU ROTC," says Dennis Martin, associate vice chancellor and associate dean of Arts & Sciences, who oversees the University's ROTC program. "He established good rapport with the University administration, maintained a very professional staff, and worked..."
Determined to continue that trend is Lieutenant Colonel Tom Wilson, a military intelligence officer coming from Europe to become battalion commander in August. "Serving in the military in an academic setting differs greatly from most Army jobs," says Griggs, who will be pursuing a doctoral degree through the Army. "It requires great flexibility, in order to keep academics as the top priority."

ROTC cadets graduate as second lieutenants; scholarship recipients are under contract to serve four years of active duty upon graduation. Many recent graduates are actively serving in the war on terrorism. After active duty, Army ROTC cadets also are bound to serve four years in the reserves.

Cadets say their military studies have assumed more urgency in the wake of 9-11, and they are likely paying closer attention to in-class briefings on news events. Though teachers and cadets do not express war-related opinions in class, they do talk about related tactical advantages and disadvantages. "My military training hits closer to home now," Poznanski says. "One day I'll likely be out there dealing with these kinds of situations."

Nancy Belt is the associate editor of this magazine.
The Center for Emerging Technologies helps transform University-borne knowledge into commercial enterprises.

A year and a half ago, Richard Axelbaum, associate professor of mechanical engineering at Washington University, was at a crossroads with his research into the production of state-of-the-art ceramic, metallic, and composite nanopowders. Nanopowders are advanced materials with a size just one step up from molecules. Axelbaum and two students created a patented flame process to produce nanopowders for use in a wide range of electronic, energy, and other markets.

"We had established a company, AP Materials, in 1997, but there was no facility for the company," Axelbaum says. "The nanopowders were produced strictly in my laboratory at Washington University. The goal of AP Materials is to commercialize this technology. We needed to take my laboratory process and scale it up to a pilot size and eventually to an industrial size in order to produce industrial quantities of nanopowders to be sold to end-users, such as electronics manufacturers."

Axelbaum faced the challenge of taking the first step out of his laboratory and into the competitive realities of the business world. But rather than try to find suitable space, outfit it with a science lab, and hire a staff, he turned to the Center for Emerging Technologies (CET), a high-tech business incubator located near Washington University in midtown St. Louis. Since then, the company has grown to more than 10 employees and recently hired a new president and CEO. Axelbaum is chairman and chief scientific advisor.

The mission of the CET is to be the primary force in positioning the St. Louis region as a worldwide center of advanced-technology industries and knowledge-based economic development.

"The CET is dedicated to creating start-up biomedical and advanced-technology companies that are science- and engineering-based," says Marcia Mellitz, M.B.A. '77, president of the CET. "In order to do technology-based economic development, we knew it was essential to be located in the vicinity of a major research university because that is where you find the experts who are on the cutting edge of research."

The center is a nonprofit, public-private-academic partnership whose operations are financially supported by the University of Missouri at St. Louis and the Missouri Department of Economic Development. The St. Louis Development Corp., Missouri Development Finance Board, U.S. Economic Development Administration, and other St. Louis companies have provided capital funding for the center.

Christopher Byrnes, dean of Washington University's School of Engineering & Applied Science, has been chairman of the board of directors since the center was founded in 1996. Other University citizens on the center's board are William Peck, executive vice chancellor for medical affairs and dean of the School of Medicine, and Theodore Cicero, vice chancellor for research. The board also includes administrators from UM-St. Louis and Saint Louis University, as well as retired and active executives of large technology-based companies, entrepreneurs, venture capitalists, technology consultants, and professional service providers. Of the approximately 14 companies in the CET, all have some connection to Washington University faculty and researchers.

"You could start up a new company in your garage, but if you do it in a place like the CET, you will have a higher success rate compared to growing a company in isolation," Byrnes says. "The CET is good at putting people with ideas together with sources of capital. I'm a big fan of the CET because it promotes new businesses locating in St. Louis. The center is also good for Washington University. The first company to leave the incubator, Celox Networks, hired every electrical engineering and computer science graduate from the University it could find."

The CET is located on Forest Park Avenue in two buildings—one 42,000 square feet, the other 50,000—that have been renovated and refitted to accommodate advanced-technology companies. The center offers start-up companies like AP Materials with customizable office space, fully equipped science labs, dry electronic labs, and state-of-the-art internal and external broadband communications with fiber-optic cable and T-1 voice and data connections, among other amenities. Companies at the center also enjoy shared...
The CET helps our investigators assess, at a very early stage, whether some of our basic science and our fundamentally important findings have any immediate commercial application," says Theodore Cicero, vice chancellor for research.

Robert Freese (left), coordinator, DNA sequencing, works with Muhammad Arief Budiman, leader, library technology, at Orion Genomics, an agricultural research company founded by two medical school faculty members, John McPherson and Richard Wilson, along with two other researchers from another state.

facility-based services, such as laboratory service equipment and business facilities that include conference rooms, a library, and a loading dock. They also have access to vital business equipment, including copy machines, voice mail, videoconferencing, and audio-visual equipment.

"Ten years ago, we did an analysis of health-care technology and medical research entrepreneurship. We found that there was a shortage of St. Louis-focused venture capital and virtually no access to incubator facilities. Now we have both in St. Louis," says Peck. "The CET can accommodate only a limited number of incubating entities, but it points out the fact that there is a pent-up demand and need. More facilities of a similar nature are going to be required, not only for Washington University, but for the community of St. Louis to promote its leadership in this area."

The CET also offers educational programs with professional service providers, workshops with national and local experts, and networking events. The center uses its staff, experienced mentors, specialized consultants, legal and financial service providers, and a host of other local and national resources to help member companies improve their business practices.

Helping raise capital for the new companies is a key focus of the CET, according to Mellitz. "Our companies are still in the research-and-development mode, which means they need capital. Our companies have collectively brought in approximately $250 million into this community over the last four years," she says. "Without the expertise to develop technology at Washington University, this would not have happened. The companies are raising money on the strength of their technology and the market potential for that technology."

Though young itself, the CET has already made a dramatic impact on St. Louis, according to Peck. "If the CET did not exist, either Washington University would have to create an incubator on its own—which is difficult if not impossible for most universities to do—or the faculty would have to ally more closely with established pharmaceutical and biotechnology companies. That would basically take business away from St. Louis and provide the investigators with less of an opportunity to pursue their own dreams," he says.

Two investigators from WU's School of Medicine have benefited from the opportunity to pursue their dreams: John McPherson, associate professor of genetics, and Richard Wilson, associate professor of genetics and co-director of WU's Genome Sequencing Center. Together, they founded Orion Genomics®, an agricultural research company, with two other researchers from another state.

The company is dedicated to improving crops through a better understanding of the structure and function of plant genes. Its proprietary GeneThresher™ platform technology enables the rapid discovery of genes responsible for important agronomic traits in crops—such as corn, wheat, and soy—at a fraction of the cost and time of traditional methods.

Four years ago, they moved the company into the Center for Emerging Technologies.

"At the time, John and I had the task of looking around St. Louis to find some office space, some wet
lab space, as well as some big open space for doing various types of production genomics,” Wilson says. “The CET was the only place that had existing wet lab space. Compared to going into business on your own, the CET offers a great deal to young companies like ours.”

Symbiontics, Inc. is another company that is experiencing the benefits of being nurtured at the center. Symbiontics was co-founded in 1996 by Stephen M. Beverley, the Marvin A. Brennecke Professor of Microbiology at the School of Medicine. Symbiontics has been in the CET approximately two years and recently moved into a 2,000-square-foot lab. The company currently employs five people.

“We have cell culture, molecular biology, and protein purification equipment. We can pretty much do everything from recombinant DNA work to studies in cell culture systems,” says Jonathan H. LeBowitz, vice president of research. “It would be impossible for us to do what we've done in another environment. The facility has everything that we need, and it is provided at a cost that we couldn’t find anywhere else.”

Symbiontics is working on methods to develop, produce, and sell novel human therapeutic protein production and delivery systems using genetically engineered symbiotic microorganisms. The company has a strong intellectual property portfolio including issued U.S. patents that cover its original Therazoan® technology and its recently unveiled, advanced technology called Glycosylation Independent Lysosomal targeting (GILT) technology. GILT technology can be applied to a group of human lysosomal storage diseases, a treatment market estimated by some analysts to be as large as $3 billion per year.

“The CET helps our investigators assess, at a very early stage, whether some of our basic science and our fundamentally important findings have any immediate commercial application,” says Cicero. “Washington University's fundamental role is to develop the knowledge itself, but part of the effort also must be directed toward transferring that technology to the public sector as quickly as possible. That is the role the University plays in society and certainly in the St. Louis region and in the state of Missouri. The University is probably one of the predominant forces that will generate new intellectual knowledge in the region, and the CET is the next step in commercializing that knowledge.”

C.B. Adams is a free-lance writer based in St. Charles, Missouri.
Hall of Famer
... respected research
“accounts” for recognition...
In his more than 40 years as a professor of accounting (first at the University of Chicago, then at Washington University), Nicholas Dopuch has produced pioneering research in the areas of financial reporting, auditing, and regulation of accounting. His contributions were recognized in 2001 by his induction into the Accounting Hall of Fame.

by Brenda Murphy-Niederkorn

With the crushing collapse of Enron Corporation in late 2001, and the subsequent highly publicized U.S. congressional investigation into the bankrupt company's suspect financial management and accounting practices, there could hardly be an individual today—no matter the level of his or her business savvy—who will not think twice before wholeheartedly trusting the information contained in a company's annual report.

Enron, the Houston-based energy-trading company, has been accused of hiding more than $1 billion in debt through a complex setup of special purpose companies in which Enron used its own stock to hedge its risk. Enron's longtime auditing firm, Arthur Andersen LLP, approved the company's financial statements. Both companies are under investigation by Congress, as well as the U.S. Justice Department and the Securities and Exchange Commission (SEC). And company employees, shareholders, and investors are filing civil lawsuits.

Nicholas Dopuch, the Hubert C. and Dorothy R. Moog Professor of Accounting and director of the Ph.D. program at the Olin School of Business, was not surprised that Enron's demise happened when it did. The U.S. economy plunged during the fourth quarter of 2001. Dubious accounting procedures, he says, hold up only as long as the economy does.

"Fortunately, most firms don't have similar errors," says Dopuch. "We hear about these scandals when the economy turns downward."

Dopuch isn't just a longtime market watche but a world-renowned pioneer in accounting research—areas include financial reporting, auditing, and regulation of accounting. In these areas, he has written more than 30 papers and contributed to four accounting books and monographs. He also served as editor of the University of Chicago-published Journal of Accounting Research (JAR) from 1968 to 1985 and has been the journal's co-editor since 1986. Dopuch twice has been named winner of the American Institute of CPAs Award for Outstanding Contribution to Accounting Literature (1974 and 1982), and he has twice received the Outstanding Accounting Educator Award of the American Accounting Association (1981 and 1999). He earned the Dean's Medal from the Olin School of Business in 1995.

Early in his career, Dopuch was interested in financial accounting and managerial accounting. Financial accounting involves reviewing statements prepared about a firm's finances and operations that are based upon generally accepted accounting principles; managerial accounting involves looking at the design of a firm's financial information reporting systems. But since 1987, Dopuch has taken a keen interest in auditing and consulting practices—and it is this area that has been scrutinized in the wake of company scandals. Dopuch participated in a February 2002 panel discussion, "Conflict of Interest in Accounting and Consulting," at the Washington University law school's F. Hodge O'Neal Corporate and Securities Law Symposium. He discussed how new auditing regulations hastily conceived could have adverse effects on capital markets.

The SEC requires companies to report both quarterly and annually and requires an annual audit by an independent firm. With the increase in lucrative managerial advisory services offered by auditing firms—including accounting software and internal control design, acquisition valuation, and pension liability actuarial services—their independence as auditors has come into question. The issuance of a negative audit report could result in a significant revenue loss to an auditing firm not only from future audits but from these managerial services as well.

"There has to be more general restrictions on firms performing non-auditing services (for the same companies that they audit)," says Dopuch. "There have to be tighter rules on the actions of auditing firms."
Dopuch, a St. Louis native and graduate of the old McKinley High School, earned his undergraduate degree at Indiana State University and master's and doctoral degrees from the University of Illinois. He is a certified public accountant and a member of the American Institute of CPAs and the American Accounting Association.

Dopuch began his long association with Washington University in 1978 as a Distinguished Visiting Scholar at the Center for the Study of American Business (now the Weidenbaum Center on the Economy, Government, and Public Policy). At that time, he was a professor of accounting at the University of Chicago (1961–1983) and had served on its Ph.D. admissions committee for 15 years. He joined Olin in 1983 at the urging of former Dean Robert Virgil and with the support of then-Chancellor William Danforth. Not only would Dopuch be able to lead the Olin accounting department's direction in research, but he would be asked to revamp and reinvigorate the School's Ph.D. program.

"They are two outstanding individuals—Bob as a friend and Danforth as a boss," says Dopuch. "You don't come in to change a school unless the chancellor is behind you."

Dopuch, who lives with his wife, Barbara, in Ladue, Missouri, further explains his move to Olin in his written response to induction into the Accounting Hall of Fame in August 2001.

"With the kinds of experiences and relationships I had at Chicago, people have wondered why I ever left to accept a position at Washington University," he writes. "One was the persuasiveness of Bob Virgil. Another was simply that I thought it was time for new blood to be infused into the JAR, and I knew I would not enjoy looking over the shoulders of my successors. Besides, my move to Washington University gave me the opportunity to embark on new paths of research."

One of those new research areas—creating competitive markets in controlled laboratory settings to study issues in auditing with Ronald R. King, professor of accounting—has helped to establish experimental economics as an important method of accounting research.

Dopuch also has done field work in managerial accounting with Mahendra Gupta, associate professor of accounting.

"Nick is the grandfather of the academic accounting profession worldwide," says Gupta. "It's not just what he's done at Olin. His research and editorial contributions are recognized at every university that does accounting research."

Gupta credits Dopuch's research success to "his eye for relevancy, his push for excellence, and his curiosity that is almost like that of a 2-year-old." He says, "Nick is not afraid to look at new areas or ways to approach problems. That sets him apart. A lot of academics settle on one area where they can excel; Nick challenges everybody with whom he comes in contact, including his colleagues."

As a doctoral student at Olin, Mort Pincus, Ph.D. '82, now a professor of accounting at the University of Iowa in Iowa City, served as a teaching assistant for Dopuch, who later agreed to chair his dissertation committee. (Pincus was both an assistant and associate professor of accounting at Washington University before joining the University of Iowa in 1994.)

"I thought I'd be intimidated by Nick, but it was quite the opposite experience," says Pincus. "He'd ask probing questions and was a wonderful listener. You got the sense that he valued what you had to say. Here was a giant in the field actually listening to a doctoral student. ... In my work with doctoral students today, it occasionally crosses my mind: 'That's something Nick would do.' You don't do the work for students, but you also don't leave them unguided. Nick certainly didn't do the work for you; he made students become self-starters."

Dopuch will tell you that it's no easy task to earn a Ph.D. at Olin, and he seems proud of the 42 students who have done so during his tenure. Polaroid snapshots of each are displayed just outside his office.

"Nick has led the Ph.D. program since 1983," says Stuart Greenbaum, dean of the Olin School. "In just the last five years, the program has grown by 50 percent. We've placed our students at Harvard, MIT, and the London Business School, to mention but a few. Under Nick's leadership, we've expanded the representation of minorities and women in the program, a high priority for the School. This program has really flourished under Nick's leadership."

The accounting profession also will grow from the Enron scandal, according to Dopuch. He tells the story of a now-deceased brother-in-law who owned a small accounting firm in California. His clients were highway construction firm owners, whom he audited for the state. This accountant told Dopuch that he wouldn't vote for a limited liability law that would protect his personal assets from lawsuits. "Why would anyone hire me if I won't back my audits with my personal wealth?" was his response.

"I think all auditors should feel the same way," says Dopuch. (continued)
Making arts education the Center of Contemporary Arts' primary mission, executive director Stephanie Riven has extended COCA's reach—giving thousands of children and adults in the St. Louis community an opportunity to dance, play music, and create art.
The history of the Center of Contemporary Arts (COCA) in St. Louis is a parable of transformation. COCA itself has been transformed under the dynamic leadership of executive director Stephanie Riven, and its dramatic growth also mirrors personal metamorphoses in the lives of its students.

Consider Rodney Hamilton. Hamilton was a St. Louis younger with a gift for dance, but his great potential was threatened by the perils of inner-city life. Then he received a scholarship to COCA's pre-professional dance program, and he blossomed. One day, COCAdance, the student company, performed at Juvenile Court, and Hamilton saw among the defendants one of his best friends. "If it hadn't been for dance," he told Riven, "I'd probably be on the other side."

Now completing his senior year at New York's Juilliard School, Hamilton looks to a bright future.

The COCA community understands and appreciates that kind of life-changing experience. When Riven, A.B. '69, M.S. '71, arrived at COCA in 1987, she began its education program with 40 students and a staff of four.

Riven, who brought a vision for a world-class community arts center, had a commitment to creating it. Today, COCA has more than 100 faculty members, 35 staff members, and 17,000 students; its enrollment climbs by 10 percent each year. Altogether, COCA serves some 75,000 area residents with its education, gallery, theater, dance, and urban arts programs.

A native of Nashville, Riven came to St. Louis to study at Washington University, where she earned a bachelor's degree in political science and a master's degree in speech and hearing at the Central Institute for the Deaf.

She worked for five years as director of services for handicapped children in the Head Start program in St. Louis and then maintained a private practice in speech and hearing, which gave her the flexibility to care for her two young sons, Josh and Sam.

But by 1987 her children were growing up, and she was ready to return to the work force full time. Richard Baron, COCA's founder and president of the real estate development firm McCormack Baron and Associates, asked Riven to join COCA and organize its new arts classes. It proved to be the beginning of 15 years of innovation and sustained growth at COCA.

"When I came to COCA, I knew that we had a fabulous building," she says of COCA's University City home in the historic B'nai Amoona Synagogue, designed by renowned German modernist architect Eric Mendelsohn and built in 1949. [The structure is on the National Register of Historic Places.] "And I also knew there was tremendous potential for program development," she says.

"We wanted to develop a multi-disciplinary community arts center,"
Riven continues. "We wanted to offer something for every age, in every discipline—and to provide programming to everyone, not just those who could pay tuition. Everything we do revolves around arts education. Even in our theater series and gallery exhibitions, education is the focus."

The core value was and is exceptional quality. "We made sure we had excellent faculty," she says. "Every class provides the best instruction we can possibly offer." As new programs were created, this commitment expanded—to finding first-rate performers for the theater series, outstanding exhibits for the gallery, and more.

COCAs history demonstrates not so much "if you build it, they will come," but, in Riven's words: "If you build it with quality, they will come." COCA's programs have grown exponentially, and today the center offers:

• 275 dance classes, with 3,419 students (U. City);
• 37 theater classes, with 420 students (U. City);
• 203 summer camps in the arts, with 2,418 students (U. City);
• off-site classes and camps serving 2,000 youngsters (20 locations throughout St. Louis County);
• the Urban Arts Program, providing after-school classes, camps, computer-based arts classes, and residencies with national and local artists in inner-city schools, serving some 9,000 young people (City of St. Louis).

The Urban Arts Program is particularly close to Riven's heart. "I grew up in a family that was community-minded," she says. "As a physician, my father was very involved in community service. As I went through school and then to Washington University in the '60s, my classes addressed civil rights, fairness, and economic equality.

"Washington University really supported an atmosphere of questioning and of commitment to those less fortunate," she adds—an atmosphere that helped shape and reinforce her social conscience.

So over the years, Riven and others at COCA began looking at ways to take arts education to underserved groups. "We really wanted to reach out more and to offer our services free of charge," she says. COCA embarked on fundraising to develop new programs and to provide scholarships for inner-city students. Today, 345 students are on scholarship; $650,000 of the center's $3.6 million annual budget goes to outreach in city schools.

The numbers are dramatic, but other measures show how Riven's leadership has created success. Major regional and national grants have recognized COCA's effectiveness in arts education. COCA has received the Education Award for Excellence in the Arts.

Most recently, the Urban Arts Program was one of 20 nationally to receive a three-year, $135,000 grant from the National Endowment for the Arts, the U.S. Department of Housing and Urban Development, and the National Guild of Community Schools for the Arts.

And two grants in particular have made a difference. "The two grants that really turned us around—taking us on a new and wonderful path—came from the Surdna Foundation, based in New York, and the St. Louis-based Dula Foundation," Riven says. The Surdna Foundation's $240,000 grant to COCA's dance program was subsequently matched by the Dula Foundation.

"This allowed us to put together the pre-professional dance program, which has become a model for the country," Riven explains. "It's a model because it not only provides fabulous training and scholarships, but [it provides] a range of support services—we provide transportation and dancer wear to those who can't afford it; we bring in nationally known choreographers; and we send kids during the summer to study at outstanding institutions."

Dance students perform with COCA Dance, the Muny, the Alexandria Ballet, Dance St. Louis, Opera Theatre of St. Louis—and others.

Rodney Hamilton was one of dozens to reap rich rewards from the program. His fellow graduates are studying at the North Carolina School of the Arts, the School of American Ballet, and the State University of New York at Purchase, as well as at Juilliard. COCA dancers have received summer scholarships to attend Dance Theatre of Harlem, the Joffrey Ballet School, and the San Francisco Ballet, among others.

Riven says, "It's been wonderful to have the opportunity to develop COCA. The organization has fabulous people on the board and a staff who really have worked hard to bring us to this point."

But, she adds, "I feel like we're just beginning. The arts should be part of every child's life—we should reach every child in St. Louis! We have a lot of work to do. We would like every child to have an opportunity to be touched by the arts."

Betsy Rogers is a free-lance writer based in Belleville, Illinois.
BY JUDY H. WAITS

- Alumnus Jeff Lebesch (right) and Kim Jordan are the husband-and-wife craft-brewing dynamic duo of New Belgium Brewing Company. • Founded in the couple’s basement in 1991, New Belgium now employs 150 people; produces its flavorful blends in a beautiful, environmentally friendly plant in Fort Collins, Colorado; and serves as a model of manufacturing—a lean, green, fun-filled machine.

Perhaps the quirkiest thing about the exuberant young company in the Rockies is its lead product’s name: Fat Tire.

But there’s more: The co-founding partner, not yet in his prime, is semiretired (but his Border collie reports to the office each week). The CEO is his wife, who used to be a social worker. The buildings are outfitted with sun tubes and skylights, which will pay for themselves in about 20 years. The manufacturing machinery? It’s powered by the wind. Except for salary records, co-workers have full access to the company books. They also sit on the company committees, with pay, at their regular scale. Some days, babies seem to be everywhere. Not only that—in the company credo, only one of the “core values and beliefs” appears in bold letters: **Having fun.**

In all, it’s a rare bouquet that hints at depth and character—but does it really represent the best way to run a business? If you’re Jeff Lebesch and Kim Jordan, partners in the New Belgium Brewing Company—or one of the 150 co-workers (owners, all)—you bet it does. Production at the craft brewery in Fort Collins, Colorado, jumped 38 percent in 2001 as New Belgium rolled out 230,000 barrels of its specialty labels.

“In the category of similar-sized breweries across the nation, ours had the highest percentage of growth,” says Lebesch, B.S. ’79 (electrical engineering). “Sales exceeded $25 million, and we went right to cellaring capacity (a major expansion project is now under way).” New Belgium’s many-medaled brews—including its signature Fat Tire® amber ale—are distributed in 12 states west of the Mississippi. Named for the big tires on a mountain bike Lebesch pedaled through Belgium, the super-smooth brew with its balanced malt flavors and unforgettable name accounts for 87 percent of the company’s sales.
High in Craft-Brewing Country
Beads of Brew Wisdom

- Beer is a mother term encompassing everything from ales, pilsners, and wheat beers to porters and stouts.
- In general, the terms micro-brewery, craft brewery, and national brewery pertain to production and distribution. Local microbreweries produce fewer than 15,000 barrels a year; regional craft breweries more than that; and major national corporations as many as 100 million barrels.
- Across the categories, quality is not the defining issue. "National breweries produce a very high-quality American light lager beer," says Jeff Lebesch, "whereas New Belgium's beers have a high-flavor profile. That's the real difference."

In a sense, such successes are hardly surprising. Achievement follows Jeff Lebesch around, as he makes unerring choices according to a kind of interior global-positioning system. "I follow my passions, always," he says. "In fact, whenever I become extremely interested in something, it's hard to get me to stop working on it. Conversely, if something doesn't interest me, it's difficult to get me to do it!" National-caliber sports-car performance rallies hooked him early on (he developed odometers/computers that performed "10 times better thanfactory models" and was a driver as well); so did triathlons; electrical engineering; and eventually, beer-making. Right now he's working from Colorado on a 31-foot trimaran being built to specification in California for a sailing trip to Alaska.

Although being born in Milwaukee and raised in St. Louis may have been prophetic, Lebesch's passion for engineering preceded his interest in beer. At McCluer North High School, in Florissant, Missouri, he loved to build gadgets and deconstruct TVs. At Washington University, he found in his "absolute favorite" teacher, Robert O. Gregory (now professor emeritus of electrical engineering), the inspiration that helped shape his approach to life. "I saw how he solved problems by thinking outside of the box. I wanted to think like that and solve problems as quickly and innovatively."

After graduation, Lebesch worked at McDonnell Douglas and ultimately as chief engineer at Fort Collins' Baker Instrument Company. Meanwhile, the craft-brewing movement was building in California and the Northwest. In 1985, Lebesch discovered Belgium's huge variety of high-character beers during his now-legendary bike trip and began to dream of a commercial brewing venture.

Returning to Colorado with a souvenir strain of brewer's yeast, he experimented with making Belgian beers at home. He married Kim Jordan (sons Zack and Nick are now 16 and 9), and in 1991 they decided to give the business a go. "We couldn't get financing and weren't willing to take on partners, so I designed and built an operation that would fit into our basement and our finances—which meant running our credit cards up to their limits," Lebesch says. Fat Tire was the first beer they capped. Both timing and execution were flawless:

In 16 months the yield reached 70 barrels per month, and the operation physically and financially moved out of the cellar. Production rose in the new location until 1995, when New Belgium built a 28,000-square-foot complex to sustain the climb. Lebesch figured out how to design, build, and program the computerized control system and worked side-by-side with local contractors on the rest. (The current building size is 120,000 square feet.)

In the process he pursued another passion: his commitment to "leaving as small a footprint as possible on the Earth." New Belgium buys 100-percent-wind-generated power and uses recycled materials in carpeting, furniture, and office supplies. "It's the right thing to do," Lebesch says. "We had to really push our building contractors to conform to our sustainability standards. But now they're incorporating practices they learned with us into their normal construction and lobbying others to follow suit.

"We've also been noticed because of the way we treat our co-workers," he continues, "and others are adopting some of these practices, too. We have an employee stock-ownership program, open-book management, and Kim is experimenting with family programs to maintain our close-knit feeling."

Among Lebesch's headiest successes, of course, are the beers, praised by savants ranging from writers at Food & Wine to Celebrator magazine's front man for Marty Jones & The Pork Boilin' Poor Boys. In addition to Fat Tire, the permanent collection of six includes Sunshine Wheat Beer, flavored with coriander and dried Curaçao orange peel, and primo award-winning Abbey Belgian Style Ale, a complex beer including flavor notes of ripe fig, caramel, coffee bean, and cloves. Another is Trippel, made with European Saaz hops; New Belgium suggests it be accompanied by sublime food, passages from Madame Bovary, "blaring Yo-Yo Ma, bonfires, and cherished old friends."

But wait. There are also four-month special releases. Frambozen, for instance—a holiday favorite fermented and seasoned with real raspberries. Or Biere de Mars, with its "trippy orange hue"...

Which serves to move mind and senses from palate to extensive palette. But as the folks at New Belgium might put it, perhaps it's time to simply drop into a comfortable chair, hit PLAY for some straight-on jazz, and kick back and contemplate life's innumerable blessings.

Judy H. Watts is a free-lance writer based in Santa Barbara, California, and a former editor of this magazine.
Drama and physics. Architecture and social work. At both the undergraduate and graduate levels, Washington University's talented, inquisitive students pursue their interests across academic boundaries.

Interdisciplinary study is the most distinctive aspect of our undergraduate curriculum, and more than half of the undergraduates take advantage of this opportunity—often creating combinations both exciting and unexpected.

"If you want to do more than one thing, Washington University is the place," says Agnes Tsang, B.F.A. '02. "I did an unusual combination—sculpture and economics. Putting them together was no problem. In fact, my advisers welcomed my idea and encouraged me to cross disciplines. There were no barriers at all."

Philip Martin Meier, B.F.A. '02, wanted his education to follow the "Renaissance recipe" of natural science mixed with analytical thinking. He chose a major in art and in the interdisciplinary program Philosophy-Neuroscience-Psychology in Arts & Sciences. His focus was on the study of vision and its many mechanisms. "I like to think that I bring art to science and science to art," he says. "There is a strong creative, problem-solving, analytical component to both disciplines."

Washington University has a long tradition of interdisciplinary collaboration among faculty and students—made possible, in part, by the University's medium size, which contributes to communication and partnerships among its schools and departments. This tradition offers students the interdisciplinary tools to explore their potential and find new strategies for achieving social change, scientific discovery, or artistic excellence.

The late Lee Harrison, B.F.A. '52, B.S.M.E. '59, a pioneer of combined studies, integrated his art and engineering skills to create innovative computer animation programs. His work was instrumental in developing computer diagnostic tools used today in medical and other research.

Michael Willis, A.B. '73 (architecture), M.S.W./M.Arch. '76, found his niche in the University's joint master's degree program in architecture and social work. His award-winning firm integrates fine urban design into neighborhood revitalization efforts and public facilities.
Undergraduate students considering combined studies are encouraged to indicate their interests as early as the application process. Students may choose a major/minor combination, two majors, or even two degrees. They may combine studies from different schools within the University or pursue multiple subjects at a single school.

While students are free to think up their own combinations with an academic adviser, the University offers a variety of established interdisciplinary programs at both the undergraduate and graduate levels, such as International and Area Studies, Literature and History, and American Culture Studies in Arts & Sciences. Graduate combined degree programs include Law/East Asian Studies (School of Law/Arts & Sciences) and the M.B.A./M.S.W. degree (School of Business/School of Social Work), among others. There are possibly as many academic combinations as there are students.

In the School of Art, combined studies are particularly common, and can yield exciting careers. Dexter Fedor, B.S.B.A./B.F.A. ’79, has used his artistic vision and business savvy to develop and execute worldwide advertising programs. He’s brought many icons into our homes, from the California Dancing Raisins to Levi’s® 501 “Blues”; he also worked on the “Why do we love the Mouse?” television campaign for the Walt Disney Company.

Some Washington University students pursue two majors or two degrees in related disciplines—such as computer science and electrical engineering, or fashion design and marketing. The alumni featured next have chosen unexpected combinations, directing their studies into satisfying and interesting careers.

Left: Rita Montgomery Hollie (seated) helped create the joint J.D./M.S.W. graduate program at the University
Bottom: Mark Frisse complemented his medical education with a graduate degree in business.

Advocate for Social Change

Rita Montgomery Hollie, A.B. ’69, J.D./M.S.W. ’73, chose social work because she was “concerned about promoting positive change for the poor—people who were disenfranchised, people who were not in the position to really do battle for themselves,” she says. “Then I thought that perhaps with a law degree I’d be in a better position to be a more effective agent for change than I could as a social worker alone.”

She talked about her goals with her adviser in the George Warren Brown School of Social Work and with representatives from the law school. The result was the joint program in law and social work. Montgomery Hollie was the program’s first student.

She went on to work in the Missouri Attorney General’s Office, where she successfully applied consumer protection legislation to the problem of lead-based paint in older rental properties. In 1992, Montgomery Hollie helped form an adoption agency, Friends of African-American Families and Children Service Center. “There was some frustration with what was happening in the foster-care system,” she says. “I was concerned about the lack of a user-friendly system for recruiting, training, and retaining African-American families who were interested in adopting children or becoming foster parents.”

She also taught business law at the University of Missouri at St. Louis and served as a St. Louis municipal judge, all while building her own law practice, where her primary focus is adoptions, guardianships, and child advocacy. She has also served as a guardian ad litem for St. Louis County.

Montgomery Hollie recently completed a master of theology degree in pastoral studies. “The idea is to do ministry part time,” she says. “Specifically, I have an interest in bereavement ministry or a ministry of consolation, helping people when they encounter loss. The interesting thing about ministry is that it’s probably something that I’ve been doing all along.”

The Business of Medicine

For Mark Frisse, M.D. ’78, M.B.A. ’97, living is learning. He has built his career on the application of various disciplines to solving problems in the field of medicine.

“I have a passion for trying to figure out how things fit together and how
you can make a difference. This passion has taken me into many different fields,” he says. “My plan was to be a great doctor at the level of service to individual patients. My desire was to approach that kind of humanistic and idealistic view of patient care from a strong scientific base. That is why I chose Washington University School of Medicine. From my experience at the medical school, I began to ask how one effectively brings information to the point of decision making for physicians and patients.”

In pursuit of these goals, Frisse took a leave from teaching to earn a master’s degree in computer science. He then returned to Washington University, where he served until 1999 in various capacities, including associate dean of the School of Medicine and director of the Bernard Becker Medical Library, where, he says, “We built a solid model for academic computing support and developed an unparalleled set of Web-based information resources for our faculty and students. And, more important, we built a business model to run a library in a period of rapidly escalating economic pressure.”

Frisse left the University in 1999 to join the pharmacy benefits management company Express Scripts, where he became chief medical officer. “For my next training experience,” he says, “I’m joining a health-care consulting company where I will work primarily with academic medical centers that are deploying large-scale information systems. I’ve almost come full circle.”

Teaching Science as an Art

In high school, Joy Schalders, B.F.A./A.B. ’95 (ceramics/earth and planetary sciences), decided to be an artist.

“My parents said, ‘Studying art is fine, but you also have to do something a little more practical,’” Schalders says. “They encouraged my interest in science. Then I received a national merit scholarship to study at Washington University and learned about the dual degree program. I visited the campus and saw the amount of flexibility there is for people to pursue multiple degrees in different areas. That was really what swayed me to go to Washington U.”

After college, Schalders settled in Denver, where she opened a digital mapping company, employing both her scientific and artistic skills. “But I decided that wasn’t for me. I love learning. I missed school.” So she became a teacher.

“Teaching is an art,” she says. “You have to be very creative to capture the interest of high school students. I teach physics, chemistry, and geology, and I find that it’s very intellectually stimulating. I’m really interested in educational technology—using computer-based data collection devices and getting kids to do experiments in the classroom. I learn new things every day, and I get to share what I know with the students. I think teaching is the most challenging thing that I’ve ever done.”

Puppet Master

“I started out in physics, looking to have a real career and thinking that acting wasn’t really anything to be taken too seriously,” says Allan Trautman, A.B. ’76. But the lure of acting was too strong. In his sophomore year, Trautman began auditioning for plays and decided to add drama as a second major.

After graduating, he went to California, earned a master of fine arts degree, and began to work as an actor and puppeteer. He was the only American puppeteer in the movie Babe, and he was the lead puppeteer and performance coordinator for Dr. Doolittle.

“We’re having to adapt to the new reality of computer animation,” Trautman says. “Lately I’ve been doing most of my work with the Jim Henson Creature Shop. I use my puppet skills with the Fierson Digital Performance System to manipulate computer graphic characters. We’re able to do character animation in real time, so we can do it a lot faster than traditional key frame animators.

“I’ve always enjoyed learning,” he continues. “That’s one of the reasons I loved having a double major at Washington U., because it allowed me to satisfy my urge to learn as much as I can, whether it be about acting or physics. Now I’m enjoying learning all the technology involved in bringing characters to the screen.”

Terri McClain is a freelance writer based in St. Charles, Missouri.
Alumna Nancy Spirtas Kranzberg instills enthusiasm, time, and treasure into St. Louis cultural institutions. Her mantra is to support the arts through “community collaboration.”

Chances are, if you ever have occasion to sit down with Nancy Spirtas Kranzberg, A.B. ’66, to discuss a St. Louis community volunteer effort, you’ll have to catch her on the run. She’s very likely on the way from one board meeting or planning session to another. But if you want to talk about something she believes will make a positive contribution to St. Louis, she’ll make time for you. It won’t be long, either, before she turns the conversation to how your project might interact with something else she’s doing—“Community collaboration is the name of the game!” is her constant theme. And she might just add your cause to the list of those to which she already contributes time, talent, and treasure—and which she promotes in the guise of a spirited cheerleader.

Her list is long and wide-ranging, befitting someone described by her admirers as a full-time community volunteer. A capsule description of the organizations or programs in which she is active, or has been over the past three decades, and her involvement with each, would easily fill these two pages.

Her interests span the arts in all their manifestations, culture, education, Jewish charities, and social and health agencies—among them the Saint Louis Art Museum, Laumeier Sculpture Park, Craft Alliance, Sheldon Art Galleries, the Contemporary Art Museum St. Louis, the Center for the Humanities at the University of Missouri at St. Louis, Jazz at the Bistro, the Mid-America Arts Alliance, Missouri Mansion Preservation, the Pioneer Literary Group, the new Loop Theater, the Jewish Federation of St. Louis, the Junior League, the American Cancer Society, Places for People (an agency that advocates for people with mental illness), and—of course—Washington University’s National Council for the University Libraries and the Libraries’ Eliot Society Membership Committee. Those are only a sampling!

Add to that a morning arts show she hosts on KDHX Community Radio, which has helped her create connections to almost every person and organization associated with the arts scene in St. Louis. The artists, musicians, writers, and gallery directors she has interviewed came willingly to chat with her about their projects. “I was on the board of the Missouri Arts Council,” she says with a sly chuckle. “They could hardly turn me down.”

Blend Nancy’s causes with the activities and affiliations of her husband, Kenneth Kranzberg—including Opera Theatre of St. Louis and the St. Louis Regional Educational and Public Television Commission (KETC-TV)—and you’ll find that between them, almost every St. Louis arts organization has benefited from the Kranzberg touch. “We make a good team,” she admits.

**APPRECIATING THE ARTS**

Nancy had always loved singing and music, but her appreciation for the arts blossomed appreciably when she came to Washington University to study education. Two faculty members left a lasting impression on her—Orland Johnson, director of the University choir, and Herbert Metz, associate professor of drama and English—as did the courses she took in art history.

But it may have been her friend and fellow choir member, Sheila Kulbarsh, who influenced her most directly as they traveled on choir trips. Sheila seemed to know everything about music and art, and when Nancy asked her how she had learned so much, Sheila said her mother had constantly dragged her to museums and concerts when she was a child. Nancy began learning all she could about the arts—“I just wanted to improve myself,” she says. And when she had children of her own, Nancy followed the example of Sheila’s mother and exposed her own two daughters to every aspect of St. Louis culture.

Along the way, her focus turned from self-improvement to community betterment. The people she interviewed on radio showed her the breadth and depth of arts activities in St. Louis. This gave her the first main theme for her emerging role as an advocate for the arts: “The arts are alive in St. Louis!”
What she learned about each organization or institution made it possible for her to see the potential rewards of having them work together. The theme of community collaboration took form in her thinking, and then finding ways to encourage cross-pollination among organizations became her mission. “By networking, I have brought many artists and organizations together,” Kranzberg says. It was her suggestion to have Rich O’Donnell, chief percussionist of the Saint Louis Symphony Orchestra, perform at the “Fire and Ice” winter solstice event at Laumeier Sculpture Park. She was also the catalyst for bringing the Contemporary Art Museum St. Louis and the New Music Circle together.

The nature of her contributions has changed as well. She began by giving her time and energy, sharing what she knew, and then, as resources permitted, donating financial support as well. The Kranzbergs’ growing philanthropy followed the growing success of the family business; Kranson Industries, of which Ken is chairman of the board, has become the largest distributor of glass and plastic bottles in the United States.

As the business grew, so did their ability to support the organizations and causes they care about. With plain-speaking good humor, Nancy explains how they were able to make increasingly more generous commitments over the years: “My husband sold a lot of bottles ... Ken started selling more bottles ... And then Ken started selling a lot more bottles!”

Nancy’s warmth and enthusiasm are contagious. It is part of her secret for getting people to work harder and to work together. She also has a strong intuitive sense for identifying others who have the talent and skills to get things done. One of the first people infected by her love for Washington University was her husband, who is not an alumnus. Ken has become Nancy’s full partner in helping her alma mater become a better, stronger place.

Shirley K. Baker, vice chancellor for information technology and dean of University Libraries, says, “Nancy has long been a great friend of the Libraries. She was already involved when I arrived in St. Louis, and she took charge of me, making sure I met people in the community.”

One of Nancy’s favorite projects has been the Nancy Spirtas Kranzberg Studio for the Illustrated Book, which she and Ken established; the studio’s inauguration was held in September 1997. Dean Baker says there is always a waiting list of students wanting to take classes in bookmaking and graphic design. “Every spring,” Baker says, “there is an award for the best student work of the year. These awards have come to be called the ‘Nancys.’”

Nancy herself has received many awards and recognition from a host of organizations for her volunteerism and fundraising. At the University, she received the first University Libraries Dean’s Medal in 1996 and was given a Distinguished Alumni Award at Founders Day 2001.

Recently, Nancy and Ken, who are Life Members of the William Greenleaf Eliot Society, made a major commitment to the new Visual Arts and Design Center (VADC). When the new facility is completed, the Illustrated Book Studio will move to the VADC from the West Campus. Baker says, “Ken and Nancy’s support of the Visual Arts and Design Center draws together two strong interests—libraries and the arts.”

Despite the lengthy list of organizations and causes in which Nancy has been involved, she admits to special feelings for two of them: “The Saint Louis Art Museum and Washington University are my two great loves,” she says. And Washington University is all the better for being so close to the heart of this energetic personification of the “lively arts.”

—John W. Hansford
Career Connections—A Step Ahead

These kinds of changes are always a challenge, but a network of knowledgeable advisers can help. With Career Connections, one of the newest online services for WU alumni, your network is just a mouse-click away.

Coordinated by the Washington University Career Center, Career Connections is a Web-based system linking students and alumni from all schools on the Hilltop Campus. It allows users to search a database of Washington University alumni, parents, and others who have registered and are willing to share information about their careers and experiences.

Stories of Networking Success

Karen Hulebak, A.B. '75, is senior advisor for scientific affairs at the USDA Food Safety and Inspection Service in Washington, D.C., and she has served as a resource for future alumni who plan a career in science. “Washington U. students and alumni are an exceptional group,” she says. “They are intelligent, interesting people, and I always learn something.”

Hulebak began her activities as a mentor when she participated in two panel discussions on campus for science students interested in career options in addition to teaching and research. Several students called her to follow up, and she has continued to welcome student inquiries. She recently registered as a resource with Career Connections.

“It’s incredibly rewarding to share my experience with people just starting out in their careers,” she says. “I encourage them to consider a wide range of options in their initial career choices. It really helps to have someone tell you that your training is valuable in many fields. I think that a wide variety of experience is valuable throughout your life. Make decisions based on what you think you should do, not on what other people think.”

Adam Schwartz, B.S.B.A. '01, M.S.B.A. '02, is an enthusiastic proponent of the Washington University alumni network. After graduating from the Olin School of Business, Schwartz began his career in New York City at Banc of America Securities. His job search was unusually challenging because he shifted his focus from tax accounting to leveraged finance.

Plan now to join other Washington University alumni and friends in community service projects next October. It’s all part of the Alumni Network’s Month of Caring, as alumni and friends around the country get together for a day of fun and service in their communities. The first Month of Caring, in October 2001, was a great success as Washington University Clubs organized community service days for scores of volunteers in cities across the United States. As a Month of Caring volunteer, you will meet other WU alumni, make new friends, do something tangible that helps others, and pay tribute to the lasting benefits you receive from your education at Washington University.

Submit ideas for new projects

If you have a community service commitment that’s dear to your heart, please let us know. We’ll consider it as one of the organizations to benefit from the Month of Caring. E-mail your suggestions to alumni_relations@wustl.edu.

Plan now to spend a day helping others in your community. Projects may include:

- Building a house with Habitat for Humanity
- Fixing lunch at a Ronald McDonald House
- Sorting groceries at a food pantry
- Packaging meals for home delivery
- Picking up trash to help preserve watersheds
- Maintaining hiking trails and nature areas
- Painting homes to beautify neighborhoods

Above: Alumni painted park benches in New York City during the 2001 October “Month of Caring.”
he says. "I wanted to relocate to Atlanta, so I looked on the WU Web site for alumni in the Atlanta area. I found Richard James, a 1968 graduate of the engineering school who had been in my fraternity, Sigma Nu, and I called him. He ended up offering me a job."

Today, Sobol is with R. James Properties in Atlanta, which specializes in apartment management and real estate investment. Sobol says, "I don't see it as luck. It's a matter of identifying your resources and going after them. The online Career Connections database is a terrific tool for advancing your goals. I'd tell any WU alum, 'Take a chance and do it.'"

**CAREER CENTERS AND SERVICES**

In addition to the online Career Connections service, alumni career services are available to you from the school from which you graduated (scope of services, as well as fees, may vary by school).

**Architecture, Art, and Arts & Sciences**

Career Center
(314) 935-5930
http://career-3.wustl.edu

Olin School of Business
Weston Career Resources Center (WCRC)
(314) 935-5950
www.olin.wustl.edu/wcrc/alumni

School of Engineering & Applied Science
Engineering Career Services (ECS)
(314) 935-6130
http://career.seas.wustl.edu/

School of Law
Career Services Office
(314) 935-6451
www.wulaw.wustl.edu/CSO

School of Medicine
Alumni Relations Office
(314) 286-0020
shepherd@msnotes.wustl.edu

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**TRAVEL PROGRAM 2002**

**PASSPORT TO KNOWLEDGE**

**October 1-9, 2002**

Alumni College in Italy's Lake District

Enjoy Alpine vistas, romantic towns, palatial villas, and flowering landscapes while staying at the Lido Palace Hotel on the shores of Lake Como, one of the most beautiful regions in the world. The eight-day experience includes educational enrichment and discussions with local specialists.

**October 15-28, 2002**

Côtes du Rhône Passage

Experience France with three nights in Paris, then travel by train to Burgundy in Mâcon and board the *M.S. Cézanne*, a floating hotel that cruises the Saône and Rhône rivers. Delight in the sun-drenched countryside and towns of Provence and complete the 13-day journey at Cannes on the Côte d'Azur.

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**To err is human, but to really foul things up requires a computer.**

— Farmers' Almanac, 1978

The editors of the 2000-2001 *Washington University Honor Roll of Donors* from the Office of Alumni and Development regret that our diligence is not always a match for technology. We hope that the following alumni and friends will accept our apology.

- **Dr. James Morris England, Ph.D. '70, M.D. '82**, should have been listed under Medicine in the Class of 1982.
- **Mr. and Mrs. Barry Schenof** were omitted as Century Fellows in the Parents list.
- **Mrs. George R. Shoemaker**, G.N. '69, should have been listed under Graduate Nursing instead of Nursing in the Class of 1969.
- **Dr. R. Lawrence Siegel, S.A. '70, M.D. '77, Ph.D. '77**, should have been listed under Medicine as well as Graduate Medicine in the Class of 1977.
Victor R. Reichert, EN 48, has returned to Washington University, where he first attended the University in 1940, completing more than 800 projects.

H. Price Roark, EN 49, SI 53, of Little Rock, Ark., received the Fay Jones Gold Award, the highest award of the Arkansas chapter of the American Institute of Architects. The chapter gives the award to “an architect who not only builds buildings, but builds the communities surrounding them.” Roark, a partner in the Little Rock firm of Roark Perkins Perry and Yelvington, has practiced as an architect and structural engineer for 50 years, completing more than 800 projects.

Leonard C. Pronko, GR 50, who has directed performances and taught theatre history, Kabuki, and non-Western theatre at Pomona (Calif.) College for 45 years, was honored in April by a conference titled Theatre East & West Revisited. The three-day tribute to Pronko, whose book Theatre East & West was published 35 years ago, was presented by the theatre and dance department at Pomona College and the Pacific Basin Institute. Pronko, the first non-Japanese to study Kabuki at the National Theatre of Japan, was awarded the Order of the Sacred Treasure by the Japanese government in 1986.

Armand G. Winfield, GR 50, research professor of mechanical engineering at the University of New Mexico, founder-director of its Training and Research Institute for Plastics, and director of the New Fisher Gallery in Albuquerque, has been notified that seven pieces of his early plastics jewelry were accepted as part of the permanent collection of American jewelry in the American Crafts Museum in New York City. Winfield invented the first mass-producible method of embedding objects in clear acrylics in 1945, and his Winfield Fine Art in Jewelry project from 1945 to 1947 in New York City attracted attention worldwide. He has been on the faculty of Washington University, Yale University’s School of Art, and six other institutions of higher learning.

Edward J. Thias, AR 51, AIA, an architect, teacher, artist, and writer who taught at Washington University for 17 years, received the National DAR Community Service Award from the Webster Groves chapter of the National Society of the Daughters of the American Revolution in February 2002. He was honored for his work in preservation of historic landmarks, long tenure in education, and service for the U.S. Navy during World War II. Thias now teaches in continuing education at St. Louis Community College at Meramec.

Elizabeth Gentry Seyad, LA 55, has been named co-chairperson of the National Louisiana Purchase Bicentennial Committee. The most prominent activity of the committee is planning the 2004 Three Flags Ceremony, a “signature event” commemorating the 200th anniversary of the Louisiana Purchase and the Lewis and Clark Expedition. The ceremony will be part of a weekend of events in St. Louis, March 12–14, 2004. Seyad co-chairs the committee with the University of Missouri at St. Louis.

Walter J. Levy, SW 56, has been named a Social Work Pioneer, the only social worker in the country to receive this rare peer tribute from the National Association of Social Workers. He received the honor for his “accomplishments and outstanding contributions to the social work profession,” with special recognition in the field of aging. Retired from social work practice, he is actively associated with several community agencies as a volunteer.

Eunice Kotoske Johnson, FA 58, retired from Lucent Technologies in Andover, Mass., on Oct. 26, 2001, after almost 24 years. She says, “Now I’ll have time for my first love—designing, drafting patterns, and sewing.”

Mary Ann Lamanna, LA 58, professor emerita at the University of Nebraska at Omaha, has written a new book, Emilie Durkheim on the Family.

Glen E. Stuckel, EN 60, a builder, remodeler, and realtor in Louisville, Ky., has been elected vice president of the National Association of Home Builders. He has oversight for members in Kentucky, Ohio, and West Virginia.

Jack Murdock, LA 61, MD 63, officially retired in 1998 but had the “really official big bash—thrown by his wife, Marilyn Franklin Murdock, LA 63, and daughters Lynn, Elizabeth, and Katie—in May 2001.” Having two weddings in 364 days has kept Jim and Marilyn very busy, as well as skiing, caring for the ranch, and playing with their two German shepherds. Marilyn especially loves the horses, and Jim loves the paint. They say, “Our church is our mainstay.”

Andres Kirkland, GR 62, GR 63, who has written, created, written, and produced award-winning programs about African Americans for a national public television audience, has created Ralph Ellison: An American Journey, a 90-minute documentary. It was screened at the Sundance Film Festival in January 2002 and telecast as part of the American Masters series on PBS in February.

Arnold B. Zetcher, BU 62, chairman, president, and chief executive officer of Talbots, received the Gold Medal from the National Retail Federation at the Annual Retail Industry Luncheon on Jan. 15, 2002, in New York City.

Hal Daub, BU 63, former mayor of the City of McMinville, U.S.C., AR 68, has joined UBS/PaineWebber’s Wall Street Complex office as a financial adviser.

James Shannahan, LA 67, created a sculpture titled Family of the Sun at the invitation of the Poriya Government Hospital in Tiberias, Israel, as part of a cultural arts exchange program. The work, made of wood on the hospital grounds last December. The exchange included six other artists from all media, from Tulsa, Okla.; Milwaukee, Wis.; Manchester, U.K.; and Minneapolis, Minn. Each American artist worked with an Israeli artist.

Priscilla “Perci” Chester, FA 67, created a sculpture titled Family of the Sun at the invitation of the Poriya Government Hospital in Tiberias, Israel, as part of a cultural arts exchange program. The work was unveiled on the hospital grounds last December. The exchange included six other artists of all media, from Tulsa, Okla.; Milwaukee, Wis.; and Minneapolis, Minn. Each American artist worked with an Israeli artist.
Syracuse University, was recently inducted as an honorary member of the Golden Key Honor Society at Syracuse University. Students must rank high academically to be invited to join the society, and honorary membership is extended to faculty and staff who support the academic mission of Syracuse University.

Michael J. Gelder, HA 73, was re-elected to a four-year term as trustee of the Village of Skokie, III., in April 2001.

Judith Hembree, PT 73, took a 10-day trip to Hospital Albert Schweitzer in Deschapelles, Haiti. She was accompanied by two physical therapy students.

Thomas W. Simon, GR 73, GR 75, professor of philosophy at Illinois State University (ISU) in Normal, III., has been named ISU’s College of Arts & Sciences Council Lecturer for 2002-2003, that university’s highest honor for faculty. Simon also an attorney, has a pro bono legal practice. He has taught in the United Kingdom and in the United States, and he helped establish Miyazaki International College in Japan. His scholarship, including three books, focuses on global injustices and minority issues.

Richard B. Teitelman, LW 73, began serving on the Missouri Supreme Court on March 1, 2002. Previously, he was a partner in the D.C. office of Oppenheimer Wolff & Donnelly.

Gregory Mixon, LA 74, assistant professor of history at the University of North Carolina at Charlotte, had an article published in the history journal *Atlanta History: A Journal of Georgia and the South*. The article is titled “The Political Career of Henry A. Pucher: A Survivor in a New South City.”

Madalyn A. Payne, LA 74, has joined the St. Louis-based law firm Rabbitt, Pitzer & Snodgrass as an associate. She will concentrate her practice in the area of workers’ compensation law. Prior to joining the firm, she was a rehabilitation counselor with the Brain Injury and Spinal Cord Injury programs at Barnes-Jewish Hospital.

Beth I. Greenberg, LA 75, attorney and physician, has been appointed medical director of a managed-care company based in New York City. She also is the mother of Isadora Mae Greenberg, whom she adopted from Russia last year.

John Ryan, GF 75, opened Dagnah!, an animation studio, on Nov. 12, 2001. Through the firm, he and Robert Pope create traditional hand-drawn, computer-painted animation for many forms of commerce.

Tennonial R. Bell, SW 76, assistant professor of social work at Florida AM University, in Tallahassee, has been elected to the national board of the North
American Association of Christians in Social Work, to the executive board of Partners for Alcohol Responsibility, and president of the board of ECHO Outreach Ministries in Tallahassee.

Joseph Bilello, GR 76, was appointed dean of the College of Architecture and Planning at Ball State University, in Muncie, Ind., effective July 1, 2001.

Larry Long, EN 76, SI 77, was promoted to "distinguished member of the technical staff" at Advent Networks in Austin, Texas.

Catherine Meyer, LA 77, has been appointed to the Missouri Department of Elementary and Secondary Education's Special Education Advisory Panel, which serves in an advisory capacity to the Missouri Department of Special Education.

Robert S. Gordon, HA 78, received the Tennessee Hospital Association’s highest award, the 2001 Distinguished Service Award. Gordon, executive vice president and chief administrative officer of Baptist Memorial Health Care, based in Memphis, began his career as an administrative resident there in 1977. He became assistant vice president, then vice president and first vice president before assuming his current post.

Mark A. Wallace, HA 78, president and CEO of Texas Children’s Hospital in Houston, has been named chairman of the board of the Children’s Hospital Association of Texas.

Leonard R. Cleavelin, LA 79, has been appointed instructor for the Department of Pharmaceutical Sciences in the College of Pharmacy of the University of Tennessee Health Science Center, in Memphis, effective July 1, 2002. He will teach and conduct research in pharmacy informatics and information systems applications in pharmacy. In his leisure time, he enjoys his German shepherd, Princess Joli of Lancaster.

Denise Hartough, LA 79, was appointed director of community navigation and fund distribution for the Greater Kalamazoo United Way. She oversees allocation of $5.3 million annually to human-service programs at 33 agencies.

Richard A. Hoffman, GR 89, a lawyer with Venable, Baetjer and Howard, is a prominent development attorney in Baltimore County, Md. He represents Bethel AME Church, one of Baltimore’s most prominent congregations, in its three-year struggle to build a 3,000-seat sanctuary in rural Granite, Md. Other clients include the Sheppard Pratt Health System and the Lupton Co., a Tennessee-based developer.

Robert Panoff, GR 79, GR 85, is executive director of the Shodor Education Foundation, a nonprofit group based in Durham, N.C.

Richard M. Santers, GB 79, was named president and CEO of Santa Fe Natural Tobacco Co., which was recently acquired by R.J. Reynolds Tobacco Holdings, Inc. Previously, he was senior vice president of marketing for R.J. Reynolds Tobacco Co. and president of that company’s Sports Marketing Enterprises unit.

Robert Danforth, LA 80, assistant professor of law at Washington and Lee University School of Law, in Lexington, Va., has received a doctoral degree in environmental law from the University of Texas at Austin.

Mary Catherine Pelini Grillo, LA 81, has been elected to partnership in the national law firm Baker & Hostetler, which has offices in Columbus, Ohio, office, she is a member of its business group and concentrates her practice in the areas of corporate law, intellectual property, and mergers and acquisitions.

Patti Liermann Maeda, FA 81, and her husband, Art, announce the adoption of Kelly Nicole, who was born Nov. 1, 2001, in New York City.

David C. Rubenstein, LA 81, who works in Washington, D.C., at Thoughtful Action, a nonprofit management consultant firm that works with the American Indians, has been working on his own to get the Washington Redskins to drop “Redskins” from their name. The term is considered discriminatory and is offensive to American Indians. In October, shortly after the Sept. 11, 2001, attacks, he decided that his 44th birthday present to himself would be to take up the name-change cause. He sent e-mails to 1,000 friends and solicited their support.

Ken Kobayashi, LA 82, and his wife, Robyn, announce the birth of Catie Erika and Michael Genich on March 27, 2001.


Steven Ressler van Gorp, LA 82, GA 84, has been promoted to redevelopment officer in the Office of Business Development for the City of New Orleans, LA. He oversees several major downtown redevelopment projects and also wants to focus on high-density infill housing. Last year he earned membership in the American Institute of Certified Planners. E-mail: svangorp@hotmail.com.

Tammy Y. (Rubin) Abramowitz, FA 83, has moved, with her family, from “sunny, dry” Israel to “damp, wet” England, because of her husband David’s promotion. “I’m helping my three sons with their school work and language,” she says. “They now wear uniforms instead of T-shirts and shorts to school.”

Constant Albertson, FA 83, received a doctoral degree in art education from Concordia University in Montreal, Quebec, Canada, in August 2001. Her dissertation was about dyslexia and the ceramic arts. In September she became assistant professor of art at
Seeking Fixed Income?

See page 9

Robert S. Brookings
Guaranteed Income for Life

The Washington University Charitable Gift Annuity, see page 9

Recognizing the Importance of Planned Gifts
Washington University in St. Louis
Living the Artist’s Life

Most mornings, sculptor Ralph Deuschle settles into his studio in the Sonoran foothills near Scottsdale, Arizona, by 6:30 a.m. to work on sketches or build models for his playfu sculptures. Now and then, he puts a movie in the VCR and listens to the dialogue from old movies like African Queen as he works. “I need noise, human voices,” he explains. “One thing that surprised me early on is that you wind up working alone a lot—which is still a little uncomfortable.”

On rare days, his solitude is interrupted by a visit from a collector. “Today, patrons are a little more interested in knowing the artist,” Deuschle notes. “They ask a lot of questions about the process. Sometimes I sit and thumb through my sketchbooks; sometimes they like to sit and listen to me ramble. The creative process fascinates them.”

In the evenings, Deuschle and his wife, Sharla, often feed the coyotes and other animals that make their homes in the nearby desert. “We pamper them,” Deuschle says. “We give them water and food. We feed the birds, too. Doing those things, it helps you to stay focused.”

The artist’s life is one that comes naturally to Deuschle, whose grandfather, Friedrich H. F. Deuschle, was a plein air painter specializing in rural Missouri landscapes. “I have one of his paintings hanging in my hallway,” Deuschle says.

Occasionally, the elder Deuschle supplemented his income as a minister to small congregations by doing commissioned work of religious subjects. By strange coincidence, Deuschle found one of his grandfather’s commissioned paintings hanging in a hospital chapel in Marshalltown, Iowa, the small town where the younger Deuschle first studied art. “I didn’t know it was there,” he says, “but I met one of the nurses who worked in the hospital, and she said, ‘Oh, I think I’ve heard that name before.’ Lo and behold, she took me down to the chapel and there it was.”

Deuschle, the first in his family to attend college, is living a dream today miles away from the one-room schoolhouses his parents attended in rural Missouri. “When I said I wanted to go to college, that caused a lot of discussion,” he recalls. “When I said I wanted to study architecture, that caused even more discussion.”

Deuschle’s father, who had struggled through the Great Depression, worried that architecture wouldn’t provide much stability for his son. Instead, the family agreed on electrical engineering; after graduating, Deuschle embarked on a 30-year career as an industrial computer salesman.

Now retired to work full time as an artist, Deuschle began taking art classes in the 1970s at night when he worked in tiny Marshalltown. Initially, he worked only in pastels, oils, and acrylics, and sold his work at local art fairs. Later, when he was transferred to Minneapolis, he studied sculpture at the Minnetonka Center of the Arts. “There were some scary moments when I took my first waxes to the foundry to be cast,” he recalls. “It was big, because all of a sudden these models were going to turn to bronze. I had to take a buddy with me.”

It’s clear from looking at Deuschle’s work, which ranges from small pieces you can hold in the palm of your hand to large outdoor sculptures, that he has managed to retain some of his initial interest in architecture. “My work is very geometric, very contemporary,” he says. “I’m a big fan of Frank Lloyd Wright and his use of geometric forms. I just seem to think geometric.”

—Gretchen Lee, A.B. ’96
D.C., and moved to Charlottesville, Va., where Linda works for the University of Virginia and Dan is an associate with the law firm Woods, Rogers & Hazelgrove. Their first child, Nora, was born in October 2001. E-mail: dsmith@wwoods.rogers.com.

Sherri G. Caplan, BW 86, is now a partner at the law firm Debevoise & Plimpton in New York City, she is a member of the firm's investment management practice group. Her practice focuses on advising sponsors of and investors in leveraged buyouts, private-equity ventures, venture-capital, real-estate, and hedge funds, and other private-investment funds.

Christine R. Margraf, BA 86, and Douglass Gabriel, a pilot for Tire & Rubber in Akron, Ohio, were married on March 12, 2001. The family resides in Mount Kisco, N.Y., and Douglass would love to hear from classmates. E-mail: dtsob@earthlink.net.

Barry Wissman, BA 86, a resident of Morristown, N.J., has been named a process engineer at Discera, which specializes in microcommunication technologies. He is responsible for the development, design, and evaluation of microelectromechanical systems (MEMS) devices for radio-frequency communications.

Susan Huser, EN 87, and her husband, R.K. Smith, announce the birth of Brandon Patrick and Allison Nicole on Dec. 20, 2001. E-mail: shuse@guidant.com.

Glenn Noe, BA 87, resides in Tuscaloosa, Ala., with his wife, Nancy, and daughters, Taylor, 7, and Jessica, 6, and son, Alec, 1. He teaches at a local college and is still running. He says, “I'd love to hear from other cross-country classmates.” E-mail: gnoe@brookdale.cc.inj.us.

Michael Rickman, BW 87, has been named a North American regional attorney for Goodyear Tire & Rubber in Akron, Ohio. He had been Goodyear's antitrust and trade regulation attorney. He also has been appointed to the Valparaso University Alumni Association Board and is on the board of alumni advisers for Christ College Honors College at Valparaso University. He and his wife, Dawn, and their two children—Martin, 14, and Rebekah, 12—reside in Hudson, Ohio.

Howard Shalowitz, BW 87, a candidate for an advanced practice nurse-practitioner law in St. Louis and serves as vice president of the Bar Association for Metropolitan St. Louis, is now a distinguished fellow of the St. Louis Bar Foundation. He and his wife, Pam, won the national Telly Award as host of the weekly television show See/Here. As chairman of the ambassador committee of the Cantors Assembly, he travels throughout North America to officiate at synagogue services and lecture on Jewish music. E-mail: Howard@Sحاولowitz.org.

Dianne R. Stober, BA 87, and her husband, Benjamin J. Slocumb, EN 86, have moved to Ft. Collins, Colo. Ben is senior research engineer at Numerica, Inc., and Dianne continues to work as a life coach and psychologist. E-mail: dstober@email.com or bslocumb@numerica.com.

Jody Sobel Klayan, LA 88, and her husband, Sushil Kewani, EN 89, announce the birth of Mia Danielle on March 12, 2001. The family resides in Mount Kisco, N.Y., and Jody would love to hear from classmates. E-mail: K15C096@aol.com.

Photine Liakos, BA 88, MD 92, and her husband, Susan Kewani, EN 89, announce the birth of Benjamin Patrick and Allison Marie on May 11, 2002.

Karen Campbell, OT 89, and Roger Peden were married on Oct. 20, 2001. She moved to London, England, in February and will continue to practice OT/therapy there. E-mail: karl@berkshires.com.

Gail Mara (Gregos) Ulan, EN 88, and her husband, the birth of Benjamin Isaac on Dec. 26, 2001.


Alex Funkhouser, BU 91, and Karla Rodriguez of Managua, Nicaragua, were married in May 2000, announce the birth of Genesia Lynn Funkhouser on Dec. 30, 2001. Alex's AJF Enterprises, Inc., which he began while a student at Woodrow Wilson, is an entrepreneurial endeavor with the import of technology-based Israeli security products. He also provides ongoing information technology consultancy for Senior Citizens in Maryland and he currently serves on the Trustee's Alumni Council at the University of Rochester. He also has an active real estate business and is on counsel to a small law firm—Raice Paykin & Krieg—in New York City. The family resides in Harrison, N.Y.

Steven Wright, PT 90, says he is “still hanging in there against the odds with Progressive Physical Therapy, focusing on physical therapy outpatient clinic.”

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Gregory Peter Wolfson, LA 89, is employed by Brandywine Construction & Management.

Chris Brooks, EN 90, and Julie (Saxton) Brooks, EN 91, celebrated their 10th anniversary last year. They have two sons—Jacob, 7, and Matthew, 5. Julie is a full-time mom and is very active in the school system. Chris is chief technology officer for Corinell Corp. in Portland, Ore. E-mail: brooks@source.com; julie_a_brooks@hotmail.com.

Amy G. Hull Brown, BA 90, and her husband, Steve, announce the birth of Andrew McCorkle and Matthew Thomas on Dec. 27, 2001. The family resides in Short Hills, N.J., and Steve is a portfolio manager at Neuberger Berman in New York City. E-mail: amy.hull@home.com.

Miriam “Mim” George, LA 90, created a documentary film titled Modern Tribulations, which played at the St. Louis International Film Festival last fall. For information, visit http://www.lowfilm.com.

Philip Hirshman, LA 90, a major in the U.S. Army Medical Corps stationed at Fort Hood, Texas, was to be deployed to the Middle East in support of Operation Enduring Freedom. When he returned, he plans to leave the Army and join an obstetrics/gynecology practice in Dallas. His wife, Jennifer Sherwood, an intern in urology at the University of Texas Southwestern in Dallas, and their son, Benjamin, 2, reside in Dallas, so for the past 3 ½ years, Hirshman has commuted between Dallas and Fort Hood. E-mail: philiphirshman@comcast.net.


J. Shale Martin, BU 90, was promoted to vice president of Cambridge Galaher Settlements and Insurance Services in September 2001. He and his family, Pamela, reside with their three children in Raleigh, N.C.

Keith D. Mortman, LA 90, and his wife, Kristy, announce the birth of their second son, Jonathan, on Nov. 13, 2001. Keith is a cardiothoracic surgeon in Columbus, Ohio. E-mail: kmortman@aol.com.

Wendy Schwartz O'Shea, PT 90, and her husband, Philip, announce the birth of a daughter, Karla Rodriguez of Managua, Nicaragua, were married in May 2000, announce the birth of Genesia Lynn Funkhouser on Dec. 30, 2001. Alex's AJF Enterprises, Inc., which he began while a student at Woodrow Wilson, is an entrepreneurial endeavor with the import of technology-based Israeli security products. He also provides ongoing information technology consultancy for Senior Citizens in Maryland and he currently serves on the Trustee's Alumni Council at the University of Rochester. He also has an active real estate business and is on counsel to a small law firm—Raice Paykin & Krieg—in New York City. The family resides in Harrison, N.Y.


Tracy (King) Zimmerman and John Michael “Mike” Zimmerman, both LA 91, announce the birth of Adlin Matthew on Nov. 21, 2001. Tracy is vice president at the Hauser Group, a public relations firm serving progressive non-profits, and Mike teaches third grade at Garrett Park Elementary School. The family resides near Washington, D.C. E-mail: tracyz@mikeathome.com.

Bradley Bolton, EN 90, and his wife, Amy, have been happily married five years. They have three children—Daniel, 4, Samantha, 2 ½, and Hannah, 1 ½ months. John and Amy have completely renovated their old home, and they also are involved in many local activities and charities. John is active on the Trustees' Alumni Council at the University of Rochester. He also has an active real estate business and is on counsel to a small law firm—Raice Paykin & Krieg—in New York City. The family resides in Harrison, N.Y.

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Melissa Anne Hensley, LA 91, SW 92, has enrolled in the Executive Progra5M for Health Care Manage­ment in the School of Medicine at the University of Missouri at Columbia. She still enjoys working as the group home director for Places for People in St. Louis. E-mail: mel0610@hotmail.com.


John M. Tanenbaum, GB 90, LW 90, and his wife, Amy, have been happily married five years. They have three children—Daniel, 4, Samantha, 2 ½, and Hannah, 1 ½ months. John and Amy have completely renovated their old home, and they also are involved in many local activities and charities. John is active on the Trustees' Alumni Council at the University of Rochester. He also has an active real estate business and is on counsel to a small law firm—Raice Paykin & Krieg—in New York City. The family resides in Harrison, N.Y.

James習tes practices corporate law with
Blackwell Sanders Peper Martin in St. Louis. The family resides in Kirkwood, Mo.

Michelle Crowell Coburn, BU 92, and her husband, Tony, announce the birth of Ethan Wallace Coburn on Nov. 24, 2001. Michelle still practices labor and employment law with Thompson Coe in Dallas. E-mail: mcoburn@scmail.net.

Francine Reicher Ephraim, LA 92, GR 93, and her husband, David Ephraim, announce the birth of Naomi Tamar on Oct. 13, 2001. Francine enjoys being a stay-at-home mom, and she is president of a young women's group within Chicago Chapter Hadassah. The family resides in Highland Park, Ill. E-mail: lephraim@attbi.com.

Beatrice R. (Ellis) Fine, LA 92, and Steve Fine, of Kansas City, were married in July 2000. Beatrice is the cultural arts director for the Jewish Community Center of Greater Kansas City. She coordinates the Kansas City Jewish Film Festival, produces the JCC's community theater, curates a gallery, and oversees a variety of touring performances.

Irene Godsey, LA 92, has joined the South Bend, Ind., office of Baker & Daniels law firm as an associate on the business and finance team.

Barry D. Good, SI 92, joined the David and Lucile Packard Foundation as a program officer for sustainability science and conservation, a new position, on May 6, 2002. Previously, he was chief of the Grand Canyon Monitoring and Research Center.

Jeremy Hawk, BU 92, and his wife, Dawn Pixley, announce the birth of their first son, Bailey Chandler Hawk, on July 2, 2001. Jeremy is business manager for private-label deli and prepared foods at Wegman's Food Markets. Dawn is taking a year off from her career as an elementary school teacher. The family resides in Rochester, N.Y.

David Jones, LA 92, received a doctoral degree in French from the University of Wisconsin at Madison in December 2001.

Carolyn (Dick) Kupietzky, LA 92, and her husband, Jeff, announce the birth of their son, Betzeal, in May 2001. The family resides in Palo Alto, Calif.

Megan Cullen Lund, PT 92, was married in 1997 and is now busy with two sons—Keenan, 3 1/2, and Nolan, 8 months—and with working part time for the Mayo Clinic in Rochester, Minn.

Carl Louis Nelson, BU 92, and Robin (Gerber) Nelson, LA 91, announce the birth of Zachary Edward on Dec. 13, 2001. They reside in Vienna, Va. Carl has been promoted to senior manager, planning and business analysis, for e-Spire Communications. E-mail: carl.roblin@starpower.net.

Nicholas R. Santora, LA 92, has been hired to write Episode 7 of the upcoming season of HBO's The Sopranos. He is happily married to Janine Santora, and they plan to move to Los Angeles in summer 2002. E-mail: lawyerprep@msn.com.

Mark Alan Smith, LW 92, has joined law firm Husch & Eppenberger's office in Chattanooga, Tenn., as a member of the firm. He practices in the product liability and general business litigation practice groups, concentrating in product liability, business litigation, and medical malpractice.

WASHING TO N PRO F ILE

Sandra Rafferty, B.S.O.T. '66

Horseback Riding Promotes Health

The first time Sandra Rafferty put a person with a disability on the back of a horse in 1969, she knew she'd found a natural match between horseback riding and occupational therapy.

"At that moment, I thought I would really like to combine occupational therapy and horses in my life," Rafferty now recalls. "You could really see a change in how it affected people. Their eyes sparkled and they just kind of lit up."

In 1969 hardly anyone had heard of using horses as therapy for disabled people, but it made immediate sense to Rafferty—a 1966 graduate of the University's Program in Occupational Therapy at the School of Medicine and a horse enthusiast since her childhood.

Rafferty says a horse's gait is similar to that of a human's. For people with disabilities, riding a horse mimics a person's walking rhythm, and this helps strengthen and support the natural motion of their spine and pelvis. It also helps improve their balance, coordination, and muscle tone.

"There are people who are unable to walk but who are able to sit on a horse; riding a horse facilitates the same motion in their pelvis they would get if they could walk," Rafferty says. "So if you sit on a horse and your nervous system doesn't know the walking motion yet, then the horse's gait will help facilitate that movement."

After graduating from WU, Rafferty worked in a California state hospital with severely handicapped individuals—and she bought her first horse. She discovered in 1974 that she wasn't alone in seeing the benefits of hippotherapy, or therapy using a horse. While working on a master's degree in special education at San Francisco State University, she traveled to Chicago for special training in hippotherapy. The course was one of the only courses offered in the United States to train individuals in riding therapy. It was taught by John Davies, who started therapeutic riding in Chigwell, England, in the 1950s.

Rafferty initially tried to use hippotherapy in the Bay Area, but couldn't find enough people open to the idea. So she moved back to St. Louis in 1974 because the Easter Seal Society of St. Louis had shown interest in hippotherapy's potential.

Working with Susie Deusinger, now director of the University's Program in Physical Therapy, Rafferty established Therapeutic Horsemanship and taught her first seven clients, charging $2 dollars each.

Today her nonprofit organization serves 190 students, ranging from age 2 to adults, who have a wide range of physical or mental disabilities. Although she still sees two children for traditional occupational therapy in the schools, she devotes most of her time to Therapeutic Horsemanship—her goal all along.

In addition to her therapy duties, Rafferty teaches sports riding for people with disabilities. She's been head coach for the U.S. Disabled Equestrian Team since 1987 and twice has taken the team to the Paralympics—to Atlanta in 1986 and to Sydney in 2000.

Her accomplishments have not gone unnoticed. Last November, the North American Riding for the Handicapped Association presented her with the James Brady Professional Achievement Award, the organization's top honor. She hopes that that recognition will help raise the $2 million she needs to fund her next project: moving Therapeutic Horsemanship into its own stables in St. Charles County (Missouri).

Therapeutic Horsemanship has fulfilled many of Rafferty's personal and career aspirations, but she attributes part of her success to her training as an undergraduate.

"Washington University has such an excellent reputation in the educational community, and its occupational therapy program does as well," Rafferty says. "The University gave me the credibility I needed for people to try something different and new." —Shula Newman
Christina Villa, LA 92, is a senior graphic designer for a new business magazine titled *Donein*. After graduation, she worked in Puerto Rico until 1997 and then moved to Boston to work at the Baked Enession hotel for two years. She now resides in Cambridge, Mass., and would love to hear from classmates. E-mail: mvilla5a@hotmail.com.

Jane E. Arnold, LW 93, has been a prosecutor for the law firm Bryan Cave effective Jan. 1, 2001. Having joined the firm in 1996, she is a member of the health-care and regulatory affairs, public policy and insurance litigation practices and is based in St. Louis.

Debra Chiericoni, BU 93, and her husband, Paolo, announce the birth of Gabriela Marie on Dec. 25, 2000. Debra continues to work as an accounting manager at T. Rowe Price in Baltimore. E-mail: deb200217@msn.com.

Joel J. Mazer, LA 93, LW 97, SI 97, and Jason Mazer, LW 98 and a graduate of Tufts University, were married May 5, 2001. The wedding party and attendees included many Wellesley College and Boston University alumni. The couple resides in Miami, where Jodi works for the Environmental Protection Agency as Florida's criminal enforcement counsel and as a prosecutor for the University of Illinois at Chicago Medical School, Finch University of the Health Sciences. E-mail: lauraconar@yahoo.com.

Rachel Gleebe, LA 94, received a Master MBA from New York University's Stern School of Business in 2001. She is a sales effectiveness manager for AT&T. E-mail: rachigleebee@yahoo.com.

Scott Kolesky, EN 94, received a doctorate in biology from the University of California at San Diego in 2001. He and his bride, Rebecca, reside in Chicago, where he is a physical therapist with Physiotherapy Associates and Michael is an attorney with the law firm Defrees & Fiske. E-mail for Rachel: luvshanksy@aol.com; e-mail for Michael: kentmaraist@gmail.com.

Sandra Jo Scher, FA 93, LA 93, is now an art director at Oasis, an ad agency in New York City. Previously, she was with DiMassino & Brand Advertising, also in New York City. E-mail: sscher@oasisadvertising.com.

Valerie C. Turner, LA 93, has been assistant district attorney for Harris County, Texas, which encompasses Houston and surrounding areas, for four years. She handles felonies ranging from drug possession to murder. For fun, she plays soccer and takes her black Labrador retriever, Daisy, to the park.

Kelly (Hardy) Twigger, LA 93, and Simon Twigger married on Sept. 15, 2001. They reside in Minneapolis, where Kelly is a litigation attorney with Quarles & Brady and Simon is a biochemist and assistant professor with the Medical College of Wisconsin. E-mail: kah@quarles.com.

Kimberly Goldberg, PT 96, and her husband, Tal Ben-Shalom, are finishing internal medicine residencies at Parkland Memorial Hospital in Dallas, where Indhu serves as chief medical resident. Afterward, they plan to move to Arizona, Mich., to pursue subspecialty training at the University of Michigan Medical Center.

Brett Adler, BU 95, ended his cartooning career in Color that month with NerveWire in Boston, prior to Brenda Reeder the same day, took a four-month road trip in a Jetta across the entire country, and now manages two Bikram's Yoga College of India schools in San Diego, Calif. E-mail: bikamiyogasandiego.com.

Lisa (Oshima) Baugh, GR 96, and her husband, Marty, announce the birth of their son, Evan Takeo, on Sept. 4, 2001, the day before the second birthday of their daughter, Kristen Akiko. Lisa became part of the information systems department at Edwards Jones in January 2001, and in April 2001 the family moved to a new home in St. Louis.

Janet Tobry Gross, LA 95, and Todd Smith, GR 96, were married on July 14, 2001. Both are elementary school teachers, with Todd teaching third grade and Janet teaching fourth. Janet recently completed a master's degree in education in a reading specialist program. E-mail: gromsith@earthlink.net.

Michael "Mitch" Kuhl, LA 95, and Trace Schulz were married in Yankton, S.D., on May 20, 2000. Kuhl graduated from Des Moines University-Osteopathic Medical School's second year in 2001 and is continuing an orthopedic surgery residency at St. Vincent Mercy Medical Center in Toledo, Ohio.

Nao Etsuki Lee, FA 95, has been named a Project Leader at the San Francisco office of Gensler ... Architecture, Design & Planning Worldwide. She focuses on integrating environmental graphics and branding into varied spaces, including showrooms.

Cynthia Loevinger, LA 95, received a law degree from American University's Washington College of Law in May 2002. She passed the New York and New Jersey bar examinations, and she is an associate at the law firm Blank Rome in Philadelphia. E-mail: cloevinger@nyc.rr.com.

Howard E. "Howie" Olson, LA 95, and Maria Pileggi were married on June 15, 2002. Howie is a partner at the firm of McManus & Fox in Phoenix. E-mail: cnovinfox@hotmail.com.

Chris White, EN 95, EN 95, GB 95, has been named controller of the New York and New Jersey bar examination committee for the University of Illinois at Chicago Medical School, Finch University of the Health Sciences. E-mail: chriswhite@chicagomed.oe.

Cathy is a consultant for IBM and continues to work as an independent provider of OT in the Washington and New York areas. She is now a pediatric resident at Children's Memorial Hospital in Chicago, where she is a pediatric resident at Children's Memorial Hospital.

Antonia Sellarius, LA 96, and her husband, Alexander Marz, are finishing internal medicine residencies in Boston, where Indhu serves as chief medical resident. Afterward, they plan to move to Arizona, Mich., to pursue subspecialty training at the University of Michigan Medical Center.

Michael "Mitch" Kuhl, LA 95, and Trace Schulz were married in Yankton, S.D., on May 20, 2000. Kuhl graduated from Des Moines University-Osteopathic Medical School's second year in 2001 and is continuing an orthopedic surgery residency at St. Vincent Mercy Medical Center in Toledo, Ohio.

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Cathy is a consultant for IBM and continues to work as an independent provider of OT in the Washington and New York areas. She is now a pediatric resident at Children's Memorial Hospital in Chicago, where she is a pediatric resident at Children's Memorial Hospital.
serves children from birth to 3 years. In addition, she is chairperson for the Little Egypt district of the Illinois Occupational Therapy Association.

Kerry L. Soffer, BU 97, in her first year of the MBA program at the University of Texas, is majoring in marketing.

Mike George, SW 98, and Brenda Ziegler George were married on Nov. 10, 2001. The couple resides in St. Louis, where Mike is a hospice social worker for Heartland Hospice and Brenda is a physical therapist for Physical Enhancement Group and National HealthCare. E-mail: mikenbr1227@cs.com.

Todd Goren, BU 98, and Laura Kurland, LA 99, married on Dec. 30, 2001, in New Jersey, and several classmates were members of the wedding party. The couple resides in Washington, D.C., where Todd is a third-year law student at Georgetown University and Laura is an account executive at Ketchum Public Relations.

Mark C. Hannah, LA 98, has joined the St. Louis branch of AXA Advisors, a provider of financial services for consumers and businesses.

Laura Lozano-Palacios, LA 98, and Hector Verdejo-Fernandez, an electrical engineering graduate of Saint Louis University, were married Sept. 14, 2001. They reside in Madrid, Spain, where Laura is biostatistics data manager for MSD Pharma Services.

Elizabeth "Liz" (Marcus) Levenberg, LA 98, and Jeffrey Levenberg were married on Jan. 19, 2002. Several classmates were in the wedding. Liz is a school psychologist in New Jersey.

David Peter, GB 98, has been named managing director of revenue management for Alaska Airlines. In his new position he will lead a team of three managers and 10 analysts responsible for maximizing passenger revenue through pricing initiatives and inventory allocation.

Arvin Prakash, LA 96, has been working and living in Munich, Germany, since January. Previously, he spent time with his son, Daniel, 2, in New York City.

Amy Beth Siegel, LA 98, who graduated from Emory University School of Law in May 2001, is an associate at the law firm Drew Eckl & Farnham in Atlanta. E-mail: asiiegel@deflaw.com.

Jonathan S. Talbot, PT 98, is working as the supervising physical therapist at K-Clinic Rehab Centers in two Texas towns—Longview and Tyler—a position he’s held since graduation. He and his wife have three children—Spencer, 6; Kristin, 4; and Nathan, 2.

Christy S. Travis, LA 98, who graduated from the University of Illinois College of Law in May 2001 and was admitted to practice before the Illinois Supreme Court and the District Court for the Northern District of Illinois, is an associate at the Chicago office of the law firm Jenner & Block.

Jonathan Bloom, GB 99, is brand manager-pies for Sara Lee Bakery Group. In January, Rebecca, who was born during pre-program, was 4½ months, and Matthew was 8 months.

Alicia DiBenedetto, AR 99, intern architect at Bradley & Bradley Architects in Rockford, Ill., has been named 2001 Outstanding Associate AIA (American Institute Of Architects).
St. Louis contributed $3.8 million to the fund. She says, “Thank you, St. Louis.”

Collin Anthony Johnson, LA 99, and Shavon Marie McGowan, BU 99, were married on Sept. 3, 2001. Collin works in the architecture department at Neumann Homes, and Shavon is an investment analyst with Oak Brook Bank. The couple resides in Naperville, III.

Andrea Johnson, “A.J.,” BU 99, and Steven Patrick McGrath were married on Aug. 11, 2001, in Atlanta, where they reside. The wedding party and attendes included many University classmates and friends.

Mala Ester Kierson, LA 99, GR 01, will attend medical school in Kirkville, Mo., beginning in fall 2002. On Jan. 24, she became an aunt to triplets—two girls and a boy.

Corey Mohr, LA 99, has co-founded Planning Initiatives, a city planning consulting firm in St. Louis. The firm, whose clients are municipalities in Missouri and Illinois, provides professional services related to the development and redevelopment of properties.


Anastasia “Ana” Burkham, LW 00, is director of professional recruiting for the St. Louis office of law firm Husch & Eppenberger.

Michael Ko, LA 01, a full-time orthopaedic surgery research technician at Washington University School of Medicine, says he’s bought a wonderful desk for his apartment and that he still watches six to eight hours of television daily.

Talia E. Matz, LA 01, is teaching K-3 special education at PS 169 in Sunset Park, Brooklyn, N.Y.

Michael W. Smith, GB 01, has been promoted to vice president of Pharmacia and has relocated to New Jersey.

Jimmy Williams, Jr., SI 01, director of manufacturing process improvement for Boeing Military Aircraft and Missile Systems, in St. Louis, received the Black Engineer of the Year Award for Boeing Black Engineer of the Year Awards Conference.

In Memoriam

1920s
Byron G. Carpenter, LW 24; 3/02

Audrey (Smith) Goodlett, NU 27; 2/02
Benjamin C. Klene, LA 27, LW 27; 4/02
Edward J. Gotsch, LA 28, GR 51; 9/01
Ruth Katherine (Getz) Maxey, NU 28; 1/02
Merle (Keightly) Mueller, LA 28; 3/02
Marion (Case) Eakins, LA 29; 12/01
William R. Lund, LA 29; 2/02
Christine (Chapin) Rapp, LA 29; 3/02
Henry Welge, EN 29; 10/01

1930s
Charles L. Faust, EN 30, GR 31; 7/01
Mary Jane (Roach) Masters, LA 30, GR 31; 2/02
Arthur L. Dougan, LA 31; 1/02
Marlow A. Markert, LA 31, GR 33, GR 54; 1/02
Frank Belker, LA 32; 3/02
Gilbert G. Early, Jr., EN 32; 1/02
H. Robert Shampaine, LW 32; 2/02
Mark F. Smith, BU 32; 2/02
Elizabeth (Aber) Bueker, GR 33; 2/02
Jeannette (Lewald) Lebens, LA 33; 2/02
Clotilda Anne (Houle) Roberts, GR 33; 2/02
Esther G. (Steinmeyer) Best, LA 34; 2/02
Carl M. Fixman, EN 34; 9/01
Elizabeth Miriam (Tureen) Berger, LA 35; 3/02
Walter E. Brown, MD 35; 1/02
James H. Coil, Jr., BU 35; 9/01
Margaret (Weiss) Littmann, LA 35; 10/01

Lois Rebekah (Parker) Moen, SW 35; 8/01
Harold M. Furtney, EN 36; 3/02
Murray McKeohan, FA 36; 3/02
Roy W. Osterkamp, DE 36; 2/02
Henry N. Andrews, GR 37, GR 39; 3/02
Mary E. McKinney, UC 37; 7/01
John A. Stiegele, BU 37; 3/02
Lothar G. Graef, UC 38; 3/02
William T. Kesselring, Jr., LA 38; 3/02
Charles D. Mill, LA 38; 1/02
June Eleanor (Golds) Neel, LA 38; 2/02
John S. W. Fargher, LA 39; 12/01
Frederick W. Knoke, Jr., LA 39, MD 43; 9/01

1940s
Mary Martin (Stephens) Bouton, OT 40, UC 41; 3/02
Audrey Jane (Douglas) Birk, FA 40; 3/02
Herbert G. Cohen, BU 40; 1/02
Harry W. Sawyer, Jr., MD 40; 1/02
William H. Traux, DE 40; 12/01
Thomas J. Callaghan, MD 41; 11/01
James C. Jones III, LW 41; 3/02
G. Bruce Lemmon, Jr., MD 41; 3/02
Wayne Braxton Wright, LW 41; 1/02
Eduard Ascher, MD 42; 2/02
Burton A. Foote, MD 42; 11/01
Edwin M. Hamlin, MD 42; 12/01
William J. Hamm, GR 42; 1/02
Charles M. Huguley, Jr., MD 42; 9/01
Naida K. (Howard) Louden, FA 42; 3/02
Vinita Helen (Schnitter) Stevens, LA 42, GR 60; 1/02
Lyle A. Tongen, MD 42; 12/01
Robert E. Boyd, Jr., LA 43; 1/02
S. (Barney) Spitzer, UC 43; 1/02
Helen Krueger, UC 44, GR 50; 3/02
Marian J. (Spieldoch) Sachs, FA 44; 3/02
Gene Elva (Kundermann) Speckert, UC 44, OT 45; 1/02
William H. Crouch, Jr., MD 45; 1/02
Margaret Toalson, DE 45; 1/02
Mildretha M. Bee, GR 46; 1/02
Betty Lou (Brewer) Menee, UC 46; 1/02
H. Mitchell Perry, Jr., MD 46; 1/02
Milton Freedman, LA 47, GR 49; 1/02
Mary L. (Hull) Grundon, NU 47; 10/01
Thelma E. (Ganz) Lawton, LA 47; 10/02
Jefferson D. Bates, GR 48; 1/02
Carl Hayden Cotterill, GB 48; 2/02
Victor W. Drexelius, GR 48; 2/02
Marvin Kalishman, BU 48; 3/02
Betty Ann (Goldberg) Keen, LA 48; 1/02
Otto Lottes, HS 51; 2/02
John J. McDermott, IU 50; 7/01
James M. Reeder, BU 52; 11/01
Joseph E. Fuhrmann, UC 50; 12/01
Gerald M. Carr, GR 58; 2/02

John H. Lovelace, BU 50; 12/01
Stanley W. Martin, HA 51; 1/02
Carla Polak, SW 49; 2/02
Charles M. Early, UC 52; 3/02
Ruth E. Oda, LA 49, MD 53; 11/01
William F. Mead, LA 49; 10/01

3/02
Leonard N. Newmark, LA 56, GR 59; 2/02
Elizabeth Levine, LA 84; 7/01
Rose Anna (Camp) Stepanek, TI 82; 3/02
Troy Christopher Olson, EN 91, GR 57; 2/02
Jennifer Kay Boone, GR 91; 1/02

In Remembrance
Leigh Gerdine
Leigh Gerdine, who helped develop the University's Department of Music in Arts & Sciences in 1950 and whose influence was felt throughout both the local and national artistic community, died February 5, 2002, after an apparent heart attack while exercising. He was 84.

"Leigh was very important to Washington University during his time here," says William R. Danforth, chancellor emeritus and vice chairman of the Board of Trustees. "He supplied imaginative ideas as part of the University-wide planning that led the way to Tom Eliot's chancellorship and also to mine.

While serving as chairman of the music department, Gerdine became involved with the Saint Louis Symphony Orchestra and served as manager in the mid-1960s. In 1970, he was named president of Webelk Company (then Webster College), based in St. Louis, and is widely credited with resurrecting the school and giving it national prominence.

Gerdine is survived by his wife, Alice Meyer Gerdine, a brother, and a sister.

H. Richard "Rick" Grosky
H. Richard "Rick" Grosky, B.S. '65, M.S. '65, D.Sc. '72, an assistant dean and registrar in the School of Engineering & Applied Science, died February 7, 2002, in St. Louis, of complications from lung cancer. He was 58.

Grosky, who joined the University in 1996 as professor of electrical engineering, was the electrical engineering department's liaison for the University of Missouri at St. Louis/Washington University Joint Undergraduate Engineering Program. He also was director of continuing education with responsibility for the School of Engineering & Applied Science's summer school program.

From 1966-1971, he was adjunct instructor in the School of Engineering & Applied Science, and in 1973, he founded Interface Technology Inc., which became Talx, a high-tech voice response systems company, of which he was president. The company was sold in 1984.

Grosky's research interests included artificial intelligence, object-oriented languages and systems, and computer engineering.

Survivors include his wife of 37 years, Gloria R. Grosky; two daughters, a son, and a granddaughter.

H. Mitchell Perry, Jr.
H. Mitchell Perry, Jr., M.D. '46, professor emeritus of medicine in the School of Medicine, died of complications from cancer January 19, 2002, in St. Louis. He was 78.

A specialist on hypertension and stroke, Perry continued his research in the School of Medicine after retiring as director of the hypertension division in the early 1990s. He also served as a physician coordinator for the national Veterans Administration Hypertension Program and as director of the Hypertension Screening and Treatment Program for the Department of Veterans Affairs in Washington, D.C., until his death.

In the early '50s, Perry was a member of the first American group to succeed in medically treating hypertension.

David J. Pittman
David J. Pittman, professor emeritus of psychology in Arts & Sciences and an internationally recognized authority on alcoholism and drug-abuse policies, died of complications from heart attacks and pneumonia on January 29, 2002, in Orlando, Florida. He was 74.

Pittman, who helped champion treatment of alcoholism as a disease, joined the University in 1958 as an assistant professor of sociology in Arts & Sciences. He became professor of sociology in 1964 and chaired that department from 1976-1986. When the department closed in 1991, Pittman became professor of sociology in psychology, a position he held until becoming an emeritus professor in 1993.

Pittman earned a doctoral degree in human development from the University of Chicago and was a faculty member at the University of Rochester from 1950-1958. There he built a reputation with pioneering research on public drunkenness.

The author of eight books, Pittman was a consultant to the Metropolitan St. Louis Police Department and to President Lyndon Johnson's Commission on Law Enforcement and the Administration of Justice (1966-1967). His research helped spur the commission's recommendation that public drunkenness be considered a sociomedical problem and that communities establish treatment centers. His work led to the creation of the nation's first detoxification center, which opened in St. Louis in 1967.

He is survived by his partner of many years, Lawrence K. Peterson, and a brother.
Conveying Wise and Thoughtful Advice

MICHAEL CANNON, Executive Vice Chancellor and General Counsel

BY DONNA KETTENBACH

Michael Cannon is used to complexity and challenges. As executive vice chancellor and general counsel for Washington University, he is routinely involved in complex legal issues facing a major research institution; its students, faculty, and staff; and a medical school and its faculty practice plan.

Providing legal counsel for such an entity has vast responsibilities. “It probably isn’t news to anyone that Washington University is a remarkably complex community organized around three extraordinarily ambitious missions of advancing knowledge, caring for the ill, and educating the young,” says Cannon. “Major research universities, particularly those with top-tier medical schools, represent one of the most pervasively regulated industries nationwide.”

Cannon and his team of nine attorneys help navigate the University through the myriad government regulations affecting patient care, sponsored research, and the management of tax-exempt institutions. They also provide legal counsel and representation to the University in its technology transfer, real estate, employment, and other business and litigation matters, to cite but a few of the legal fields involved in managing a research university. “It amounts to the most diverse practice of law imaginable,” he observes.

As if such legal work were not enough, he also wears different hats at the University, and wastes no time taking off one to don another. As executive vice chancellor, Cannon holds down a wide range of other leadership responsibilities, including overseeing the University’s human resources operations. Moving from his legal work to overseeing employee benefits programs, to reviewing CFU budgets, to mentoring exceptional students, to teaching courses at the law school has kept Cannon challenged since he arrived in 1993.

Three years ago, he created the University Committee on Named Scholarships for Graduate Students, serving as chair from 1999–2000 and as co-chair today. “The committee works hard to identify those students who could be serious candidates for Rhodes, Marshall, Mellon, and other prestigious scholarships; to make them aware of these opportunities; and then to help prepare them fully for the intense competition involved in winning these coveted opportunities,” he says.

Cannon knows of what he speaks ... he earned a Rhodes Scholarship as a WU student. He graduated with a degree in economics in 1973, spent two years on his Rhodes Scholarship at Oxford University, and went on to Yale Law School. After serving on the Missouri Selection Committee for Rhodes Scholars from 1995–1998, he saw a challenge for his alma mater. “I was aware that other universities take a
proactive approach to identifying and mentoring candidates from their student bodies, and it seemed Washington University needed to do the same. The quality of our student body is so high and has at times seemed underrepresented in the most prestigious scholarships available for graduate study,” Cannon says.

Edward Macias, executive vice chancellor and dean of Arts & Sciences, believes Cannon has helped transform the way the University goes about preparing students for big-name scholarships. He notes that the committee, mostly faculty members, has had great success recently, including a first-ever for WU: two Rhodes Scholarship winners in the same year, Sarah S. Johnson, A.B. ’01, and Ian Klaus, A.B. ’01.

Of Cannon’s direction, Johnson says, “I quickly came to view him more as a trusted mentor than a scholarship committee chairman. He encouraged me to examine why I wanted to go to Oxford, to look beyond the appeal of accolades, to consider how success comes on many different levels. His guidance enabled me to evaluate and reaffirm my motives to become a Rhodes Scholar. Most of all, it is Mr. Cannon’s perspective and discerning advice about life that will remain with me.”

“What is distinctive about Michael is the breadth of his intellectual interests, the dedication he shows to the students and Washington U., and the unflagging generosity and good humor he displays in confronting challenges,” says Ryan Balot, assistant professor of classics in Arts & Sciences and currently co-chair of the scholarship committee. “He has an almost unique capacity to elicit such qualities and behavior from others, and he has invariably helped our candidates to become the sort of people everyone will respect and admire.”

Cannon personally mentors two to three such students a year, focusing on their career aspirations, the factors that have accounted for their success to date, and strategies for building on those successes to accomplish as much as possible in the scholarship competitions.

“Mr. Cannon was a tremendous help during my preparations for the Rhodes Scholarship interview, and I am grateful for his support and inspiration during the process,” says Ali Jezmir, B.S.B.A. ’02, who was a Rhodes finalist. “He is an outstanding role model, and he is truly devoted to the students at our university.”

Cannon’s dedication to WU was also evident when he taught a course in liability insurance coverage at the law school for six years. He loved it and hopes to teach another class “in the not-too-distant future.” Meanwhile, his wife, Denise Field, who met their first week at Yale, is handling that end as a lecturer at the law school. They have two teenage sons now, who keep them both busy. Cannon also keeps active challenging himself in triathlons. Although he has recently medalled in an age-bracket competition, Cannon dryly notes, “It’s a good thing I’m not in it for the glory.”

When he joined his alma mater, Cannon brought a wealth of experience with him. He had been in private practice at a law firm in Washington, D.C., for 13 years, and before that, he served as a federal prosecutor in government corruption cases. He is an integral part of the University’s administration, serving on numerous committees and on the chancellor’s four-member management committee, advising on many policy matters.

As part of the team strategizing to make the University even better, Cannon will no doubt continue to be involved in complex and challenging issues. But, he’s used to that.

Donna Kettenbach is a free-lance writer based in St. Louis, Missouri.
A Face to Remember  The architectural adornment resting on the archway on the north side of Graham Chapel helps direct visitors to the chapel's "green room." Bosses, grotesques, and gargoyles are distinct features of collegiate Gothic architecture, and the Hilltop Campus exhibits many fine examples of these. As Washington University approaches its 150th anniversary in 2003-2004, the magazine will feature photos, vignettes, and stories of the people and places that are part of the University's history.