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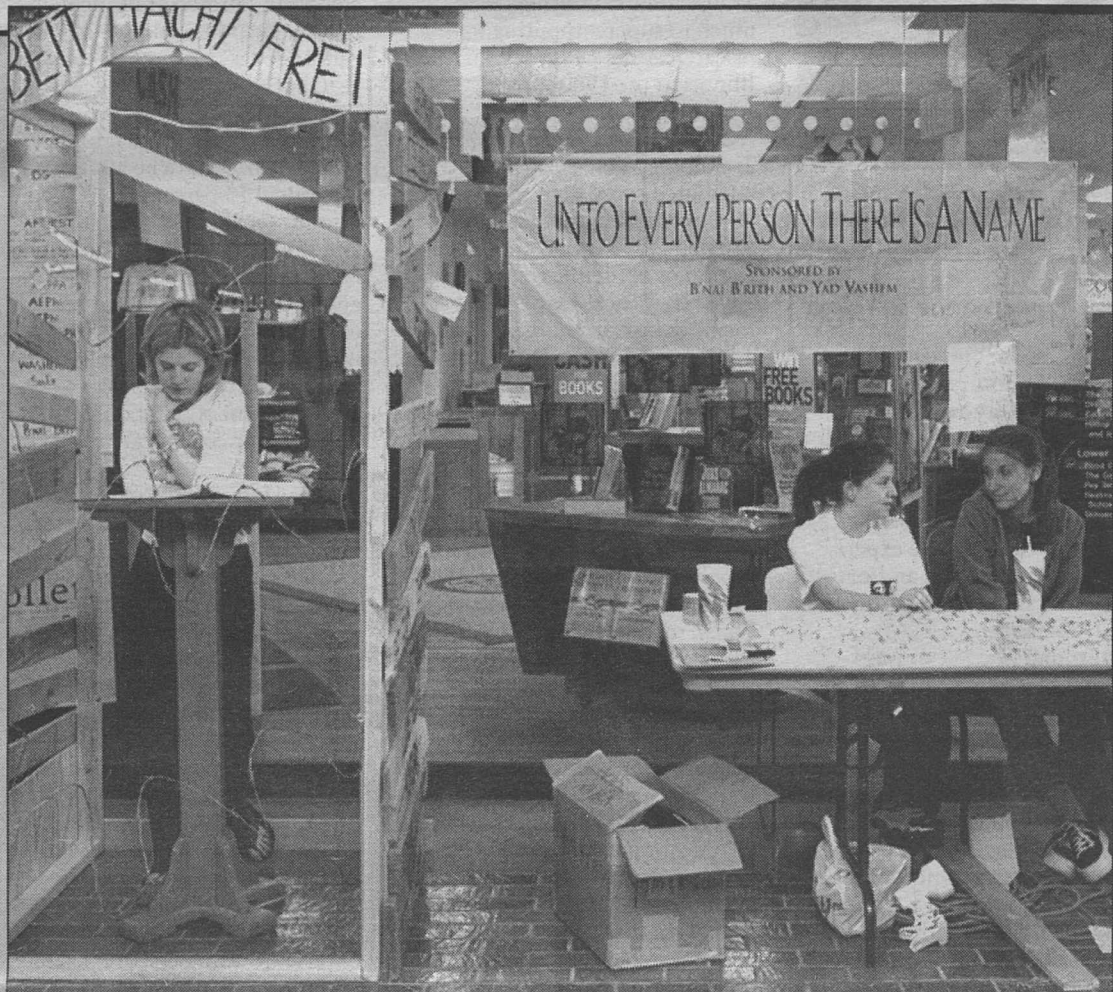
Record

May 11, 2000

Volume 24 No. 31



Washington University in St. Louis



Remembering Sophomore Deena Roemer (standing) takes a turn reading names of Holocaust victims during the Yom Ha Shoah, Holocaust Remembrance Day, a 24-hour observance April 30-May 1 sponsored on campus by St. Louis Hillel and WrUach, the Jewish student organization. Also shown: sophomore Lisa Jaffe (left) and freshman Emily Rosenstein.

Hatchlings Fund to help new business ventures

By NANCY BELT

With a little seed capital, some promising ideas generated by students in the Hatchery entrepreneurship program at the John M. Olin School of Business might grow into big businesses. That's the thought behind the Skandalis Seed Capital Fund, established at the business school through a \$1 million pledge by Mr. and Mrs. Robert J. Skandalis of Bloomfield Hills, Mich., as part of the Campaign for Washington University.

"I know firsthand that having sufficient capital at the right time can spell the difference between success and failure for a new business," said Robert Skandalis, an entrepreneur himself. "My wife, Julie, and I wanted to supply early, upfront funding for promising Hatchery students, helping them cover startup costs

until they can secure venture capital funding for the long term."

Skandalis is himself a venture capitalist, funding companies through BlueStone Capital Partners, TRADE.COM, E-Grad.com, Big Net Inc., Noble International Ltd., three bank holding companies and Twenty First Century Advisors.

The couple's daughter, Kristin, is a sophomore in Arts & Sciences at the University.

Since its inception in 1997, the entrepreneurship program has "hatched" numerous successful ventures, ranging from The Ice King, selling a frozen confection at shopping malls, and bare ware, a distributor for custom T-shirts, to everbank.com, an Internet bank and SmithCenter, manufacturers of organic outerwear.

The fund's investments in promising student businesses will typically be between \$10,000 and

\$20,000, although smaller and larger investments may be made at the discretion of the Hatchery Advisory Board. Generally, one or two plans will be approved for investment yearly, though it's possible that no plans will be funded in a given year.

Participants must be current business students or recent graduates — within the previous two years — who are majority owner(s) of the venture. Also, participants must have enrolled in the Hatchery and completed the business plan through it.

If the advisory board approves a business plan for investment, students must incorporate the business before the investment is made, and the percentage of ownership in the venture represented by the fund's investment will be negotiated on a case-by-case basis. Recipients

See **Hatchlings**, page 6

Reaching out AmerenUE, University launch social work internship program

By GERRY EVERDING

Strengthening families and helping stabilize community life in St. Louis are the goals of a new community service-field education partnership between AmerenUE and the George Warren Brown School of Social Work.

Made possible by a \$250,000 grant from AmerenUE, the three-year program will provide stipends ranging from \$500 to \$1,000 to master of social work students involved in semester-long field education internship projects that address critical social problems in St. Louis-area communities.

Among the many efforts that will benefit directly from the new partnership are an after-school recreation program for East St. Louis children living in violent, poverty-stricken public housing projects; an activities program for inner-city teens at high risk for gang involvement; and a treatment program for delinquent, neglected, abused or emotionally disturbed adolescents in St. Louis County.

"AmerenUE's support for this critical effort is a testament not only to the quality of the University's school of social work but also to our continuing desire to improve the lives of those who

need our help most," said Charles W. Mueller, chairman, president and chief executive officer of Ameren Corp. "Funding these internships helps us reach those who need help strengthening their families, preparing for and finding employment and returning to healthy, violence-free lifestyles. Initiatives like this are critical to the future of the communities AmerenUE serves."

Students selected for the AmerenUE Community Service Intern program will work closely with local nonprofit agencies and other community service providers on projects promoting job readiness, healthy life choices for young people and a range of other innovative neighborhood-based services.

Known as a practicum, the field education internship is an integral part of social work education. Every graduate social work student is required to spend at least 1,000 hours in a field education project of his or her choosing (see related story on page 2). Many students volunteer more hours than necessary, and some contribute as many as 1,500 hours during the course of their education. All work under the supervision of an on-site professional with an advanced degree in

See **Internship**, page 2

NAS elects Waterston

By LINDA SAGE

Robert H. Waterston, M.D., Ph.D., the James S. McDonnell Professor of Genetics and head of the Department of Genetics at the School of Medicine, has been elected to the National Academy of Sciences (NAS), one of 60 new members chosen May 2. Election to the academy is considered one of the highest honors that can be bestowed on an American scientist or engineer. The newly elected members bring the total number of active members to 1,843.

The NAS is a private organization dedicated to advancing science and its use for the general good. It was established in 1863 by a congressional act. Upon request,

it acts as an adviser to the federal government in matters of science or technology.

Waterston directs the medical school's Genome Sequencing Center, which is playing a major role in the Human Genome Project, the international collaborative venture that is sequencing all the DNA in human chromosomes. The sequence of 3.3 billion genetic letters carries the instructions for making and operating the human body, and its errors or variations contribute to most types of disease.

"Dr. Waterston is internationally recognized for his scientific contributions to the Human Genome Project," said Francis

See **Waterston**, page 3

The common good — technology transfer's ultimate purpose

By LINDA SAGE

If you're trying to stop smoking, thank the University of California, Los Angeles, for the nicotine patch. If you get thirsty when you're working out, thank the University of Florida for Gatorade. But if you're in an emergency room with chest pains and need a diagnosis, you can be grateful to Washington University.

Two tests that quickly determine whether a person is having a heart attack accounted for one-fifth of the University's \$8.3 million license

income in fiscal year 1999. These tests can pick out the one person who needs urgent care from the four others who are having indigestion or panic attacks.

The tests resulted from the research of Jack H. Ladenson, Ph.D., professor of medicine and pathology. In the 1980s, Ladenson isolated an antibody that recognizes a protein that leaks into the bloodstream from heart muscle during a heart attack. In 1986, the University secured the first nonexclusive license for this antibody — creatine kinase-MB —

and the product reached the market in 1988. Ladenson then developed even more specific tests based on antibodies for the muscle proteins troponin I and myoglobin.

"Licensing has made the technology much more widely available and more easily utilized throughout the world than the procedures we originally published in scientific journals," Ladenson said. "It also allows useful procedures and reagents to be rapidly and effectively utilized by the clinical and research

communities."

Putting research results to good use is the goal of the University's technology transfer program. "One of our missions is public service," said Theodore J. Cicero, Ph.D., vice chancellor for research, associate vice chancellor for animal affairs, associate dean of the medical school and professor of psychiatry and neurobiology. "I think there can be no better way of doing that than by making sure that our basic technologies and research developments get out to the

public in the most efficient way possible."

Tech transfer received a major boost in the United States in 1980 with the passage of the Bayh-Dole Act, co-sponsored by Sens. Birch Bayh, D-Ind., and Robert Dole, R-Kan. The act allows universities to take title to inventions arising from their federally funded research and to license these technologies to companies that wish to take them to market.

Before it was passed, fewer than 250 patents were issued to

See **Tech transfer**, page 2



Andrew Neighbour, Ph.D. (left), and Theodore J. Cicero, Ph.D., help take University discoveries to market through the technology transfer program.

Helping hands

By GERRY EVERDING

Providing support to battered women, serving families of Alzheimer's patients and helping small farmers in Honduras get low-cost food to poor consumers are a few of the reasons seven students from the George Warren Brown School of Social Work will be singled out for special recognition at the school's May 19 graduation.

The school requires each graduate student to spend more than a thousand hours in field education projects, or practica, at community organizations, health centers and other agencies of their choosing. In addition to required field work — most of which is unpaid — many social work students find time to put in additional hours for a favorite social service organization.

The University's social work students provide nearly a quarter million hours of volunteer services to the St. Louis region each academic year. By another estimate, the school's practica students provide local organizations with annual support equivalent to 125 full-time professional positions.

During Commencement, six of those students will be honored with the 1999-2000 Dr. Clara Louise Myers Outstanding Practicum Student Award, and another will receive the Shirlee Fink Kahn Award for exemplary volunteer service in the St. Louis community.

Social work student **Jilene**

Gunther is this year's recipient of the Kahn Award, given annually to a graduating student who has provided exceptional volunteer service to the local community over and above required field work. Gunther earned the award for her work as a children's activities coordinator with the St. Louis congregation of the Church of Jesus Christ of Latter-Day Saints and as co-chair of a social work student organization that sponsors charitable and social events. These volunteer activities were conducted in addition to her required field work as an intern with the Victim Services program of the St. Louis Circuit Attorney's office.

Outstanding practicum awards go to one graduate student in each of the school's five major areas of academic concentration. The sixth goes to a master of social work student who has designed an individualized practicum project to meet personal education and career objectives.

"These awards single out a small sampling of our students who are doing exemplary work in the community, but in reality, there are many more whose field work is deserving of recognition," said Therese J. Dent, Ph.D., assistant dean for field education.

The 1999-2000 outstanding practicum winners by area of concentration are:

Allison Zidel Meyers in health worked with The Wellness Community of Greater St. Louis, a non-profit group offering support services for adults with cancer and

their loved ones.

Marissa Berkow in mental health has been a clinical coordinator for Women's Support and Community Services, a St. Louis-based agency offering assistance to adult women who have experienced physical, sexual and/or emotional abuse from partners or family members.

Ramona Marie Connors performed an individualized concentration practicum project on education and development in American Indian communities. As an intern in the University and social work school admissions offices, she has been successful in attracting a wave of new American Indian students.

Sarah Boeker in the children and youth concentration worked with Heritage House, a public/private partnership between St. Louis City Family Court and Provident Counseling that helps arrange and supervise child visitation and custody exchanges as mandated by the court.

Kristen Hicks Hilty in gerontology worked with patients and families in support programs offered by the Alzheimer's Association of St. Louis.

Felecia Bartow in social and economic development performed practicum projects with Housing Comes First, a St. Louis-based advocacy group and with COMAL, an American Friends Service Committee project in Honduras that purchases food and other products in bulk and passes the savings along to poor families.

they otherwise might not be able to consider, and it will allow the school to help develop and staff new field education programs that meet the important community service priorities that AmerenUE has identified for the new partnership.

Under the program, graduate students working in unpaid practicum projects anywhere in the AmerenUE service area will be eligible to apply for support. Students will compete for the stipends by demonstrating their projects' effectiveness in meeting the program's primary objectives: stabilizing local communities; strengthening diverse, at-risk children, youth and families; contributing to the professional education of community service workers; and developing new community service programs.

The social work school currently offers its students field education opportunities in more than 400 local agencies. About 25 of these agencies whose programs most closely match AmerenUE's objectives have been targeted for special

emphasis under the internship program. The partnership also seeks to develop new community programs staffed by AmerenUE interns.

One example of such a program to be implemented this summer is the Immigrant Youth Outreach Project, an education and enrichment program for young immigrants to St. Louis from Mexico, Haiti, Somalia, Eritrea and elsewhere. A collaborative effort of Southside Catholic Community Services and Provident Counseling, the program will be staffed by three AmerenUE interns from the University and provide services to help immigrant teens meet the challenges of adjusting to life in a new country.

Other special AmerenUE projects under development will put social work graduate students to work in the University City School District and with the Metropolitan Employment and Rehabilitation Service.

AmerenUE is a subsidiary of St. Louis-based Ameren Corp.

Tech transfer

Taking cutting-edge science to market

— from page 1

American universities each year. Among the many products that have resulted from university discoveries since it became law are Internet search engines, faster modems, tests for early prostate cancer and feline leukemia, and safer highway guardrails. The biotechnology industry is based on gene-splicing research done at Stanford University and the University of California in the 1970s, and the Internet owes much to supercomputing research at the University of Illinois in the 1980s.

A recent survey by the Association of University Technology Managers (AUTM) attributed more than \$33.5 billion in economic activity and 280,000 jobs to the commercialization of academic research in 1998. That fiscal year, AUTM member institutions generated 4,808 new U.S. patent applications, obtained 3,668 new licenses and contributed to the formation of 364 companies across the United States.

Washington University obtained its first patent in the 1920s, but its formal tech transfer program was established in 1971 by the late Edward L. MacCordy, Ph.D., then vice chancellor for research. In 1982, the University signed the Monsanto-Washington University agreement, one of the first significant research collaborations between an American university and industry.

"Technology transfer is a significant part of the University's responsibilities," Chancellor Mark S. Wrighton said. "Our distinguished faculty and researchers are exceptionally creative and innovative. Our technology transfer effort is focused on bringing the benefits of discovery to society and to do so as rapidly as possible."

Since 1997, immunologist Andrew Neighbour, Ph.D., associate vice chancellor and director of technology management, has headed the University's Center of Technology Management, which Cicero oversees. In fiscal year 1999, the center's 15 staff members completed 157 licenses, a significant increase from the 50 or so per year executed in the mid-1990s. The staff also evaluated 104 new inventions and filed 109 U.S. and foreign patent applications last year.

The process begins when a faculty member contacts the office about a research finding and the University decides to take title. Whether a technology is patentable — it must be new, useful and not obvious from prior work — is one factor affecting the University's decision. But the major question is whether a breakthrough would meet a need in the marketplace.

"That is where the business experience of our staff comes in," Neighbour said. "They have a sense of what diagnostics, pharmaceutical, electronics and

communications companies are looking for today."

Through extensive research and networking, the center tries to match an invention with a company so licensing can begin. Companies also learn about new technologies from scientific meetings or journals.

Most of the University's inventions are not directly useful to the general public, however. They are more likely to provide companies with tools to develop their own products. For example, Glaxo Wellcome is using a mouse model of prostate cancer developed by Jeffrey I. Gordon, M.D., the Alumni Professor and head of molecular biology and pharmacology and professor of medicine, to look for potential prostate cancer drugs.

Once a technology is licensed, the inventor or inventors receive 45 percent of the annual income after expenses have been met. An additional 15 percent feeds back into the tech transfer program, and the rest is divided among the faculty member's lab, department and dean. There also may be companion research agreements, which generated \$21.7 million for the University in fiscal year 1999. Such agreements support labs and postdocs for collaborative projects.

The University also encourages faculty in their own commercial ventures. "Entrepreneurial faculty should have the opportunity to see their ideas reach fruition in the public sector without having to leave academe," Cicero said. "So we are interested in encouraging them to spin off small companies."

Several faculty have taken this route, and Garland R. Marshall, Ph.D., professor of molecular biology and pharmacology, has even founded two companies. Tripos Inc. develops computational tools and combinatorial libraries for drug discovery, and MetaPhore Pharmaceuticals Inc. focuses on metals in medicine.

Neighbour said it is unrealistic to expect the University's program to have a major impact on the local economy, though it certainly creates jobs and wealth. Moreover, licenses and research agreements can account for only a small proportion of the University's annual operating revenue, which totaled about \$1.1 billion in fiscal year 1999.

But the program's long-term goals don't center on income. "Our main role is to provide service to faculty and to facilitate public use of our discoveries," Neighbour said. "We want to make money along the way and return value to the University and inventor. But when a deal is done, we want to step back with pride because our program has recognized an opportunity, structured the best relationship with the best company and, as a consequence, helped bring that product to the marketplace. That is our ideal."

For more information about the University's technology transfer activities, visit the program's Web site (<http://ctm.wustl.edu>).

This article is excerpted from an article in the School of Medicine's Spring 2000 Outlook magazine and is reprinted with permission.

Internship

AmerenUE supports social work practica

— from page 1

social work or a related discipline.

Although students can propose field education projects anywhere in the world, most do their field work in the St. Louis area; most are unpaid, volunteer positions. Working closely with school, church and community leaders, health providers and other professionals, the University's social work students provide nearly a quarter million hours of volunteer services to the St. Louis region each academic year.

"We are proud of the contributions our graduate students make to planning, delivery and evaluation of social services in the greater St. Louis community," said Therese J. Dent, Ph.D., assistant dean for field education. "AmerenUE's support will allow our students to take on unpaid projects that

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Washington University community news

News & Comments

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Medical School Update

Screening guidelines for prostate cancer are on target

By BARBRA RODRIGUEZ

A study of more than 12,000 men who had been screened annually for prostate cancer suggests that current guidelines help catch the majority of potentially harmful cancers at early, more treatable stages.

Researchers reviewed follow-up data from 12,453 men between ages 50 and 60 who had been screened between 1991 and 2000. Suspicious results had led to ultrasound-guided biopsy of the prostate gland for 1,571 participants. Of them, 165 were diagnosed with prostate cancer, and about 85 percent of the tumors were considered potentially harmful.

"The take-home message is that early screening catches most prostate cancers at a curable stage," said Robert L. Grubb, M.D., a study leader and resident in urology at the School of Medicine. He presented the findings April 30 at the annual meeting of the American Urological Association (AUA) in Atlanta. Team leader William J. Catalona,

M.D., professor of urologic surgery, also discussed the findings at an AUA media briefing May 2.

Many doctors have used a digital rectal exam and a blood test since the early 1990s to evaluate prostate-cancer risk. The blood test measures the circulating level of a protein called prostate specific antigen (PSA), which can rise in the blood when the cancer is present.

Guidelines from the AUA and the American Cancer Society recommend that physicians discuss annual screening for prostate cancer with men 50 and older. For men at higher risk, such as African Americans and those with a family history of cancer, earlier screening has been suggested.

However, some doctors have been reluctant to recommend the PSA blood test out of concern that it might lead to unnecessary treatment while doing little to reduce cancer deaths. Catalona and his colleagues evaluated the cancer prognosis of the 165 men to help address the effectiveness of the screening guidelines.

All 165 men had prostate

biopsies to verify the presence of cancer after a digital rectal exam or PSA blood test raised concerns. The majority then had the prostate removed surgically (prostatectomy), though 14 chose radiation therapy and four opted to wait and see if their cancer progressed. Among the 143 men who chose prostatectomy, eight had tumors likely to be harmless. However, five others had rapidly progressing tumors, and the remainder had tumors considered suspect. Among them, though, 119 of the cancers were still confined to the prostate, where current treatments can reduce the risk of cancer return 90 percent of the time.

"We're catching more than 85 percent of the cancers within the prostate using current guidelines," Catalona said.

Results from two other recent studies discussed at the May 2

media briefing support the conclusion that early testing helps reduce prostate cancer deaths. One study published by researchers at the National Cancer Institute found that mortality rates among white and black Americans dropped by 16 percent and 11 percent, respectively, during the 1990s. Another detected a 42-percent drop in the expected 1998 prostate-cancer death rate in the Austrian state of Tyrol. This drop occurred after two-thirds of Tyrolean men between 45 and 75 were screened as part of a free program begun in 1993.

Because treatments for prostate cancer can cause side effects, the University researchers also evaluated difficulties with urination, sexual function and other complications among the 165 men who had cancer. Eighty-three of the 99 men who reported on their ability

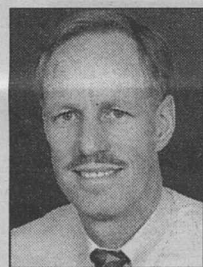
to control urination were problem-free 18 months or more after treatment. However, 58 of 92 men reported difficulty with sexual intercourse. All but four of these had undergone prostatectomy.

Catalona noted that the prostatectomies were performed in different clinical settings by about a dozen surgeons who might have had varying levels of experience performing the surgeries. In addition, previous studies have indicated that most men are satisfied with their prostate cancer treatment despite any resulting side effects.

"As is the case with most cancers, early treatment produces excellent results in patients with prostate cancer," Catalona said. "The five-year survival rates of men treated for early prostate cancer are nearly 100 percent."

David Beebe named president of vision research association

David C. Beebe, Ph.D., the Jules and Doris Stein Research to Prevent Blindness Professor of Ophthalmology and Visual Sciences, has become the new



Beebe: Studies the eye lens

president of the Association for Research in Vision and Ophthalmology (ARVO), the world's largest vision research organization.

The president is chosen from the ARVO Board of Trustees. Beebe has been on the board since 1995, representing researchers who investigate the eye's lens.

Beebe, also a professor of cell biology and physiology, examines how the lens forms during embryonic life and the basic mechanisms that predispose people to cataracts. He looks at both genetic and environmental factors that could contribute to cataracts.

He is director of the Cataract Research Center at the School of Medicine, one of the largest groups in the world working on the biology and pathology of cataracts, the leading cause of blindness in the world.

Beebe joined Washington University in 1995 after serving as professor and chairman of the Department of Anatomy and Cell Biology at Uniformed Services University of the Health Sciences in Bethesda, Md.

Waterston

Elected to National Academy of Sciences
— from page 1

Collins, M.D., Ph.D., an NAS member and director of the National Human Genome Research Institute at the National Institutes of Health (NIH).

The Human Genome Project places its data into a freely accessible public database every 24 hours to make them immediately available to scientists around the world. The data obtained so far have proved useful in searches for human disease genes, physical mapping studies and interpreting the human sequence. "Bob has been a consistent and effective advocate for free and immediate access to all of the data produced by the Human Genome Project," Collins said.

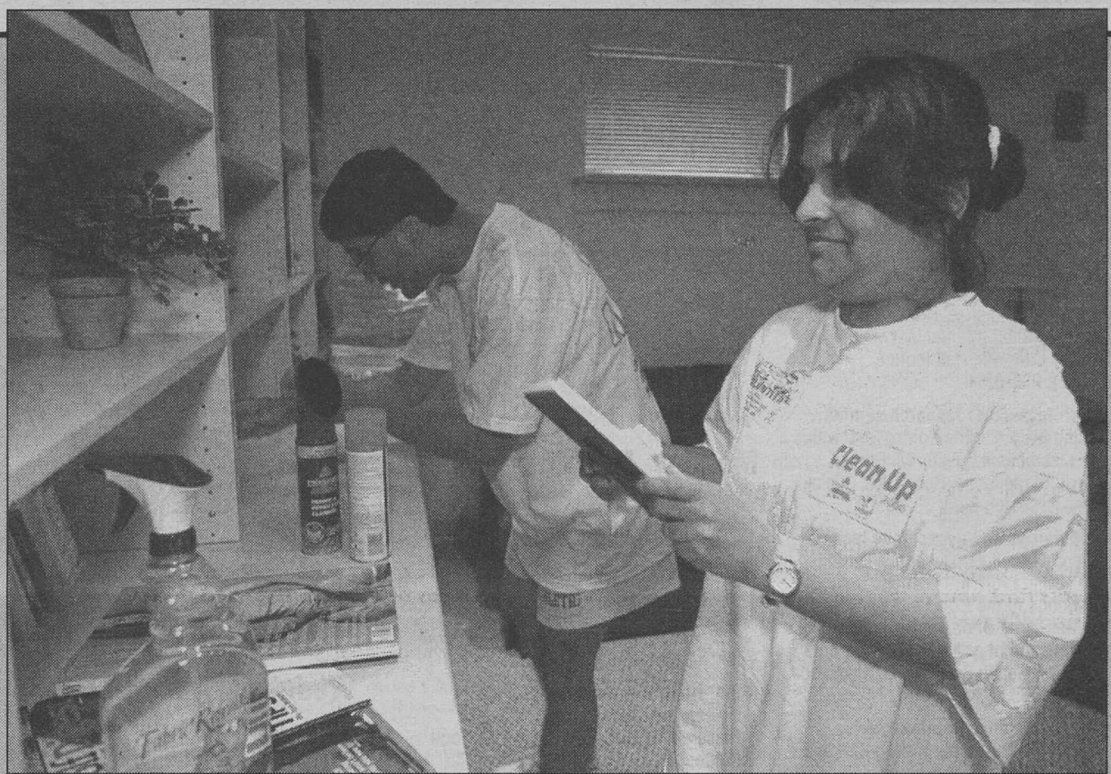
Waterston's group and its British collaborators previously sequenced all the DNA in a roundworm, *Caenorhabditis elegans*. This was the first sequence from an organism with more than one cell. "Bob's leadership in demonstrating that high-quality large-scale sequencing can be carried out successfully for *C. elegans* and now for the human has been critical to the current rapid advances in the field of genomics," Collins said.

C. elegans is an important experimental organism that is shedding light on the complicated process of development and the normal functions of human disease genes. For many years, Waterston has used it to study genes involved in muscle development.

Waterston joined the Washington University faculty in 1976 after a postdoctoral fellowship at the Medical Research Council Laboratory of Molecular Biology in Cambridge, England. Before that, he was an intern in pediatric medicine at Children's Hospital Medical Center in Boston. He received both a medical degree and a doctorate in pathology from the University of Chicago in 1972 and obtained a bachelor's degree in engineering from Princeton University in 1965.

He was a recipient of an American Heart Association Established Investigator Award from 1980 to 1985, and he held a John Simon Guggenheim Fellowship from 1985 to 1986. He has served as a member of several NIH study sections and as chairman of the NIH's Molecular Cytology Study Section. He currently serves on the NIH Advisory Council.

Waterston is a member of Sigma Xi, Alpha Omega Alpha, the Genetics Society and the American Society of Cell Biology and has published more than 70 peer-reviewed scientific articles.



Helping out Rekha Rajkumar (left), MBA '98, and Anupam Goel, a second-year resident at Washington University Medical Center, scrub a commons area at the Ronald McDonald House on West Pine Street, St. Louis, as part of a cleanup at 162 Ronald McDonald houses worldwide. The April 29 cleanup was sponsored by Bissell Inc. Rajkumar and Goel volunteered for the project through the St. Louis Cares organization.

Gokel will investigate synthetic ion channels

George W. Gokel, Ph.D., professor of molecular biology and pharmacology and director of the Bioorganic Chemistry Program at Washington University, has received a four-year \$1.1 million grant from the National Institute of General Medical Sciences. The funding will allow Gokel to study the properties of synthetic ion channels.

Ion channels occur in all living organisms, serving as selective gateways through the outer membrane of cells. For example, some channels allow potassium ions to flow through the barrier between a cell's surroundings and its interior to maintain the balance between sodium and potassium. But such channels are difficult to study because they are large and assembled from protein building blocks. Therefore, little is known about how they attract ions at one face of a membrane and release them at the other.

Gokel has received international recognition for his work on macrocyclic compounds — ring-shaped molecules made of nine or more carbon atoms. By attaching side chains to such compounds, he has produced molecules that insert themselves into membranes and interact with small positively charged ions. These molecules therefore can serve as models of ion

channels. "We have developed a system that is shorn of biological complexity but functions well enough to throw light on the chemical interactions that must occur when ions pass through protein channels," Gokel said.

His long-term goal is to synthesize more complex ion

channels for therapeutic use.

"One idea is to develop a channel that could selectively insert itself into the outer membrane of disease-causing fungi," he said. "By disturbing the ion balance of the cells, the channel could serve as a new type of anti-fungal agent."

Di Cera to study blood-clotting protein

Enrico Di Cera, M.D., professor of biochemistry and molecular biophysics, has received a \$1.4 million grant from the National Heart, Lung, and Blood Institute. Di Cera is studying the blood-clotting protein thrombin.

He discovered that sodium ions enhance thrombin's performance by prompting it to change shape. This shape change enables thrombin to interact more efficiently with other proteins involved in clotting.

By altering thrombin at specific sites, the researchers will map the region responsible for the shape change. They also will investigate the molecular events that allow this region to communicate with other parts of the molecule.

A second project will locate the binding sites for various proteins on both the sodium-free and sodium-bound forms of thrombin. This work should reveal whether different sites account for

thrombin's various functions. If so, it might be possible to develop drugs that block one site and not others.

Using X-ray crystallography, the researchers also will determine the detailed 3-D structures of both forms of thrombin and determine how altering the protein at specific sites affects structure.

Finally, they will introduce a sodium-binding site into the corresponding region of tissue plasminogen activator (tPA), which does not normally bind sodium. Used to dissolve clots in heart-attack and stroke patients, tPA might work faster with a sodium-binding site.

Thrombin and tPA are members of a large family of protein-cutting enzymes called serine proteases. Therefore, Di Cera's research should generate rational strategies for enhancing numerous enzymes used in medicine and biotechnology.

University Events

The Casimir Effect • Mad Cows • Spatial Learning • Imaging Memory

"University Events" lists a portion of the activities taking place at Washington University May 11-20. Visit the Web for expanded calendars for the School of Medicine (medschool.wustl.edu/events/) and the Hilltop Campus (www.wustl.edu/thisweek/thisweek.html).

Exhibitions

"Eyewash: A 25¢ Peep Show." Through May 21. Works by senior School of Art sculpture students. Lemp Brewery, 3500 Lemp Ave. St. Louis. 935-6500.

Bachelor of Fine Arts: School of Art Undergraduate Show. May 12-19. (Opening 5 to 7 p.m. May 12.) Gallery of Art. 935-6500.

Architecture's Design Awards Graduation Exhibit. Through May 20. Givens Hall. 935-6200.

"The Octagon Waltz (1995-2000)." Through May. Special Collections, fifth floor, Olin Library. 935-5495.

Lectures

Thursday, May 11

Noon-1 p.m. Genetics lecture. "Genes Patterning Craniofacial Development in Zebrafish." Charles Kimmel, U. of Ore. Room 823 McDonnell Medical Sciences Bldg. 362-7072.

3 p.m. Physics theory seminar. "The Casimir Effect." Michael Revzen, prof. of physics, Technion - Israel Inst. of Tech. Room 241 Compton Hall (coffee 2:45 p.m.). 935-6276.

4 p.m. Cardiovascular research seminar. "Signaling Events in the Control of Cardiac Energy Metabolism." Philip M. Barger, asst. prof. of medicine. Room 801 Clinical Sciences Research Bldg. 362-8901.

4 p.m. Obstetrics and gynecology lecture. "Imaging Intracellular Dynamics During Human Fertilization: Implications for Reproduction in the 21st Century." Gerald P. Schatten, prof. of obstetrics and gynecology and of cell and developmental biology, Ore. Health Sciences U., Portland. Cori Aud., 4565 McKinley Ave. 747-0739.

5 p.m. Vision Science Seminar Series. Ophthalmology residents Kwang Kim and Samir Sayegh will give research presentations. East Pavilion Aud., Barnes-Jewish Hospital Bldg. 362-5722.

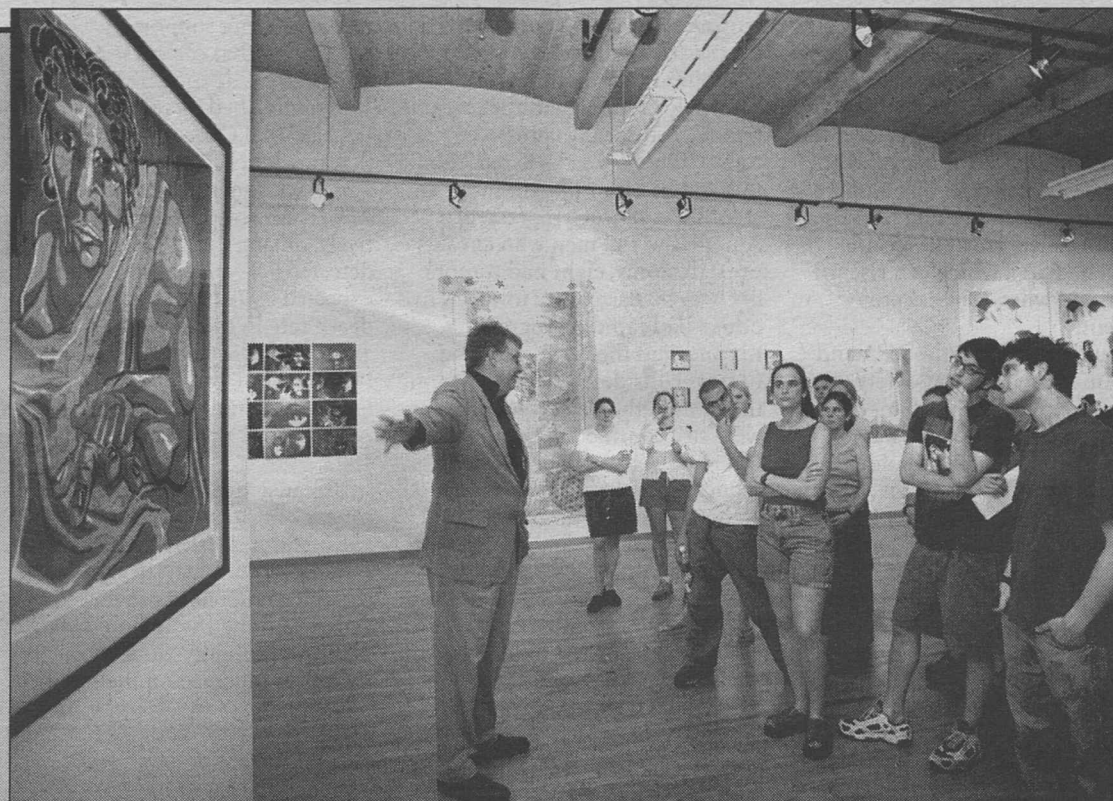
Friday, May 12

9:15 a.m. Pediatric Grand Rounds. Ben Abelson Memorial Lecture. "The Non-Hodgkin's Lymphomas of Childhood." Michael P. Link, prof. of pediatrics, Stanford U. School of Medicine. Clopton Aud., 4950 Children's Place. 454-6006.

Noon. Cell biology and physiology seminar. "Spatial Regulation of Exocytosis." Peter J. Novick, prof. of cell biology, Yale U. Room 426 McDonnell Medical Sciences Bldg. 362-6950.

Noon-1 p.m. Gastroenterology research conference. "Stress Proteins and Intestinal Epithelia." Hannah Carey, assoc. prof. of comparative biosciences, School of Veterinary Medicine, U. of Wis. Room 901 Clinical Sciences Research Bldg. 362-8951.

4 p.m. Anatomy and neurobiology seminar. "Pathways to the Ear:



A critical eye David Kiehl, curator of prints and drawings for the Whitney Museum of American Art in New York, critiques an exhibition of work by students in the School of Art's Printmaking/Drawing program. The show opened Friday, May 5, at the school's E. Desmond Lee Gallery, 1627 Washington Ave., St. Louis.

Developing a Brain to Ear Connection!" Dwayne D. Simmons, research assoc. prof. of anatomy and neurobiology and of otolaryngology, Central Institute for the Deaf. Room 928 McDonnell Medical Sciences Bldg. 362-7043.

Monday, May 15

Noon-1 p.m. Molecular biology and pharmacology seminar. "Structure-function Studies of the Glycoprotein Hormone Heterodimers Using a Single Chair Model." Irving Boime, prof. of molecular biology and pharmacology and of obstetrics and gynecology, Room 3907 South Bldg. 362-2725.

Noon. Neurology and neurological surgery research seminar. "Are Presenilins Gamma-secretases?" Todd Golde, Mayo Clinic, Jacksonville, Fla. Schwarz Aud., first floor, Maternity Bldg. 362-7379.

Tuesday, May 16

Noon-1 p.m. Alzheimer's Disease Research Center seminar. "Measuring the Quality-of-life Impact of Alzheimer's Disease." Steven Albert, dir. of master's in public health program, div. of sociomedical sciences, Columbia U. Schwarz Aud., first floor, Maternity Bldg. 286-2881.

Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series. "From Mad Cows to 'Psi-chotic' Yeast: A New Genetic Paradigm." Susan Lindquist, the Albert D. Lasker Prof. of Medical Science, molecular genetics and cell biology dept., U. of Chicago. Cori Aud., 4565 McKinley Ave. 362-6772.

Noon. Neuroscience seminar. "Contact Mechanics and Tactile Sensing of the Hand." Dianne Pawluk, Johns Hopkins U. Room 928 McDonnell Medical

Sciences Bldg. 362-7043.

12:10-12:55 p.m. Physical therapy research seminar. "Evidence for a Cerebellar Role in Spatial Learning." Andrea L. Gebhardt, doctoral candidate in neuroscience program. Classroom C, 4444 Forest Park Blvd. 286-1400.

4 p.m. Anesthesiology research seminar. "Anesthetic Steroids: How Many Binding Sites on the GABA_A Receptor?" Alex S. Evers, the Henry Eliot Mallinckrodt Prof. and head of anesthesiology dept., prof. of medicine and of molecular biology and pharmacology. Room 5550 Clinical Sciences Research Bldg. 362-8560.

Wednesday, May 17

10 a.m. Center for Mental Health Services Research Seminar Series.

Nine student-athletes earn top honors

Nine Washington University student-athletes were named top performers for the 1999-2000 school year at the athletic department's annual banquet May 1.

The W Club Distinguished Senior Athlete of the Year award, established in 1989-90 by the school's athletic support group, is bestowed annually upon a male and female athlete for their contributions to the athletic program. Cross country and track and field star Tim Julien and football standout Tim Runnalls both received honors on the men's side, and three-time

national basketball player of the year Alia Fischer was the women's winner.

Julien, one of the top distance runners in the University's history, has earned five All-America citations as a member of the cross country and track and field teams. Runnalls led the football team to one of its finest seasons ever in 1999 and won a pair of first-team All-America awards and the 1999 University Athletic Association (UAA) Defensive Player of the Year. Fischer, the only three-time winner of the Women's Basketball Coaches Association Division III National Player of the Year award and the only three-time UAA Player of the Year, graduates as the school's all-time leader in points (1,974), rebounds (937) and blocks (219) and third all-time in steals (187) as the Bears became the first team in NCAA Division III to win three straight national championships.

New this year, the Art and Marge McWilliams and the Stanley and Ann Rosen awards were presented to the top junior female and male student-athletes, respectively.

Basketball player Tasha Rodgers won the McWilliams award. A first-team All-American and a two-time first-team all-UAA selection, Rodgers has helped the Bears to an 88-2 record and a trio of NCAA Division III national championships in her three years with the team.

The men's winner, also from the basketball program, was Chris Alexander. A two-time first-team all-UAA forward and a 1999 All-America honoree, Alexander ranks third all-time at the University

5:15 p.m. Mothers and Babies Research Center conference. "Congenital Malformations in Maternal Age." Lisa M. Bernhard, asst. prof. of obstetrics and gynecology. Room 2, lower level north, St. Louis Children's Hospital. 747-0739.

Thursday, May 18

Noon-1 p.m. Genetics lecture. "C. Elegans Cell Cycle Transitions: Regulation by Multiple Degradation Pathways." Edward Kipreos, genetics dept., U. of Ga. Room 823 McDonnell Medical Sciences Bldg. 362-7072.

4 p.m. Cardiovascular research seminar. "New Insights Into Diastolic Physiology and Function." Sándor J. Kovács, assoc. prof. of cell biology and physiology, of medicine and of biomedical engineering. Room 801 Clinical Sciences Research Bldg. 362-8901.

5 p.m. Vision Science Seminar Series. "The Role of Rb in G1 Phase and Beyond." J. William Harbour, instr. in cell biology and physiology and asst. prof. of ophthalmology and visual sciences. East Pavilion Aud., Barnes-Jewish Hospital Bldg. 362-5722.

Friday, May 19

9:15 a.m. Pediatric Grand Rounds. "Functional Brain Imaging of Human Memory." Randy L. Buckner, asst. prof. of anatomy and neurobiology, of radiology and of psychology. Clopton Aud., 4950 Children's Place. 454-6006.

4 p.m. Hematology seminar. "The Copper Chaperones." Jonathan D. Gitlin, prof. of pathology and of pediatrics. Room 8841 Clinical Sciences Research Bldg. 362-8801.

4 p.m. Neuroscience seminar. "The Architecture of Active Zone Material and Its Role in Synaptic Transmission, as Revealed by Electron Tomography." U. J. McMahan, Stanford U. Room 928 McDonnell Medical Sciences Bldg. 362-7190.

Sports

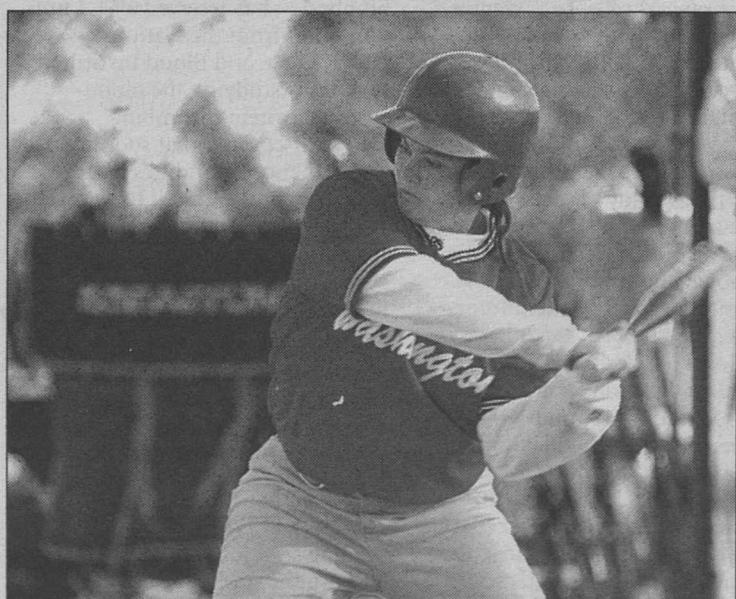
Friday, May 12

3:30 p.m. Men's and women's track and field. WU Last Chance Meet. Bushyhead Track and Francis Field. 935-5220.

Sports Section

Softball drops doubleheader

The softball team saw its inaugural season come to an end with a pair of losses, 12-1 and 7-4, to Webster University on Saturday, May 6. Despite the losses, the Bears finished a spectacular first season with a 22-10 record and a University Athletic Association championship to their credit. In the first game, freshman Kate Gase tallied a hit and an RBI, extending her hitting streak to 16 games. Gase was two-for-three in game two with a pair of RBIs and two runs scored. She cracked her fourth home run of the season and finished the year with a 17-game hitting streak. Anne Gregory also homered for WU.



Freshman Kate Gase cracked her fourth home run of the season against Webster University Saturday, May 6.

New urban design degree to be offered

By ANN NICHOLSON

The School of Architecture is launching a new Master of Urban Design degree program, which will focus on contemporary urban issues through a unique blend of architectural, landscape and planning perspectives. The post-professional degree program, to be offered beginning in fall 2001, will combine coursework with research design studios tackling community projects.

"The new one-year degree program is targeted at professional architects, landscape architects and planners who wish to further their knowledge base and become conversant in the contemporary metropolitan issues faced in the practice," said Jacqueline Tatom, assistant professor of architecture and co-director of the program. "It will offer the opportunity to become directly involved in broad-based solutions to some of the most intransigent design problems of American cities today."

Tim Franke, program co-director and assistant professor of architecture, added: "The Master of Urban Design program will tackle a diverse set of problems through a cross-disciplinary approach to metropolitan design. While very few programs nationally train professionals from a multidisciplinary approach, such collaboration has become essential to addressing the complexity of today's metropolitan issues."

Dean Cynthia Weese, FAIA, noted that the program builds on the school's longstanding tradition of addressing urban issues through high-quality, innovative design. "Faculty and students lending their design expertise to community solutions have been a hallmark of this school," she said. "The new . . . program will provide a formal means of combining our strengths in urban design, architectural design and landscape design to address issues so essential to the future of American cities."

At the core of the new program will be three intensive studio experiences. An initial speculative studio will stress the importance of design solutions that combine architecture, landscape and planning. A

metropolitan research studio will tackle long-term design issues facing the St. Louis region. Over time, successive studios will build on previous ones, allowing the program to focus on solutions in ongoing projects for the community's benefit. A summer studio, Visions in Process, will engage students in an on-site studio with an eminent practitioner in a metropolitan area outside St. Louis. It will include a studio-based design component at the school and yield specific design proposals.

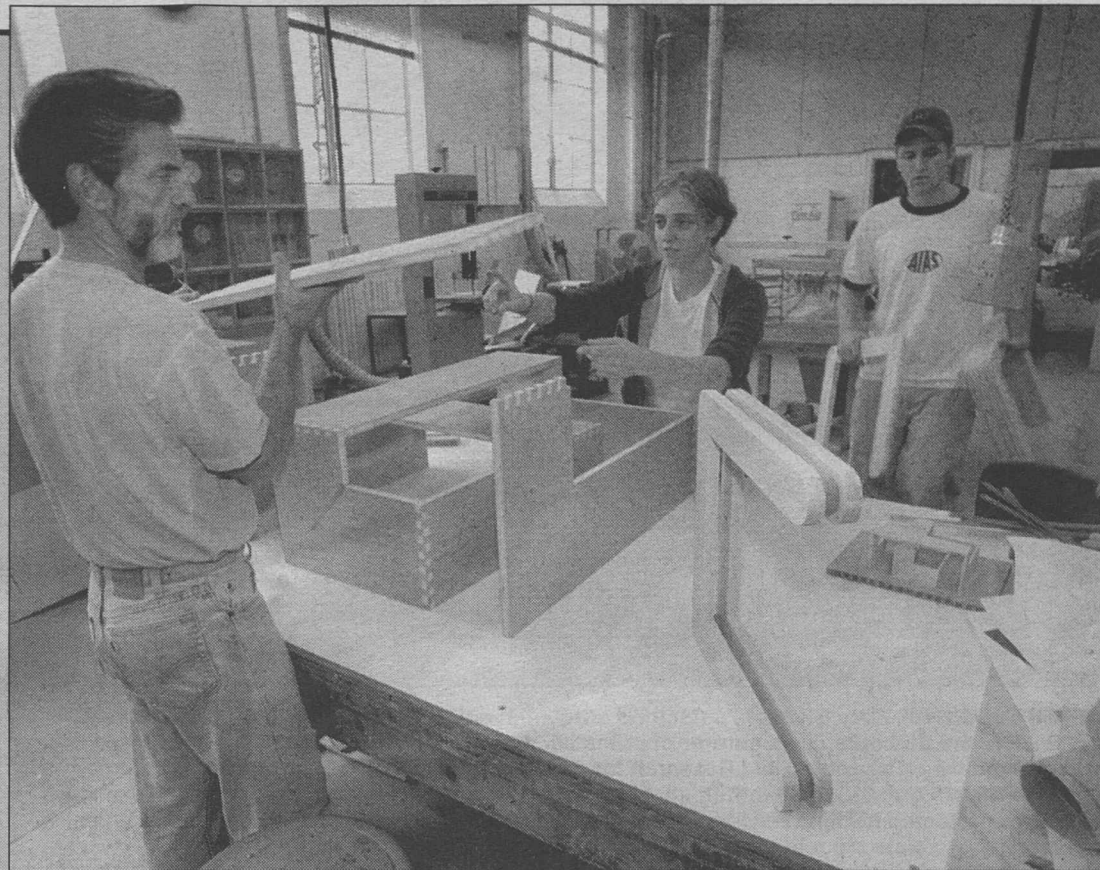
"Studio projects could range from assisting communities in redeveloping brownfield sites to preserving ecologically sensitive systems to creating mixed-use, sustainable development," said Franke, a partner at Third Land, a St. Louis-based architecture, landscape architecture and urban planning and design firm. "The multidisciplinary approach will allow us to . . . help communities determine suitable alternatives for future growth, preservation and sustainability at many levels."

The new degree program will engage students in issues including public space, transportation, infrastructure, de-urbanization, environmental sustainability, land development, housing and revitalization. Design strategies will strive to offer a view independent of political concerns but acknowledging the regional nature of contemporary urban problems, said Tatom, who directs the school's Metropolitan Research and Design Center.

"The overall framework will be to consider the metropolitan landscape as a spectrum of conditions that are not just urban or suburban, but part of an overlapping metropolitan context," she said.

The program will offer core areas of concentration in environmental systems; community development; history and theory of the metropolitan landscape; representation, computing, methods and models; and urban technology and infrastructure. It will draw on the expertise of architecture faculty and other visiting academics and professionals at the forefront of urban design.

"We are eager to begin the Master of Urban Design program, whose innovative approach promises a new educational framework for addressing today's complex urban issues," Weese said.



Handcrafted Carl Safe, professor of architecture, helps senior Maris Grossman assemble a wooden table. Grossman, senior Jesse Duclos (right) and their fellow classmates are gaining a deeper appreciation for finely crafted work in Safe's furniture design course.

Tracing the trail of freedom Center announces final book in landmark series

By GERRY EVERDING

Culminating an initiative launched here nearly 15 years ago, the Center for the History of Freedom in Arts & Sciences has announced plans for the 15th and final volume in its landmark series chronicling the birth and development of basic human freedoms.

"This will complete the first effort to treat the evolution of modern freedom," said Richard W. Davis, Ph.D., professor of history and director of the center since 1989. "It will not be the last such history to be attempted, but our volumes and the favorable critical reception they have received show that we have raised a number of interesting and important issues. We certainly trust and hope that the investigation will go on elsewhere."

The writing of the final volume, titled "Realms of Freedom in the Modern Chinese World," is scheduled to begin in the 2000-2001 academic year. It will be edited by noted Chinese scholar William C. Kirby, Ph.D., a former dean and professor in Arts

& Sciences here and currently a professor of history at Harvard.

Kirby will write one of the 12 chapters in the volume, as will William C. Jones, LL.B., J.S.D., the Charles F. Nagel Professor Emeritus of International and Comparative Law here. Jones, a leading Chinese legal scholar, will write on "Chinese Law and Liberty in Comparative Historical Perspective."

The history of freedom project was launched here in 1985 by J.H. Hexter, Ph.D., a specialist in British history who taught at Washington University and other leading American universities for more than 60 years. Hexter taught here from 1957 until 1964, when he moved to Yale. He returned to Washington University in 1978 as Distinguished Historian in Residence and subsequently became the John M. Olin Professor of the History of Freedom in Arts & Sciences. He retired in 1990 and died in 1996 at the age of 86.

Hexter envisioned a long-term scholarly endeavor that would result in a multi-authored, multi-volume history of the making of modern freedom, and he founded the center to carry out the project. Hexter served as the first general editor for the series and as the editor of the first volume, which explored origins of liberty and the parliament system in England during the 17th century. Davis has served as general editor of the series since 1989.

When complete, the one-of-a-kind 15-volume series will trace the history of modern freedom from its 17th-century Western origins in England and the Netherlands to its current somewhat erratic and uncertain emergence in China. Contributors to the series are brought together from different areas of history and the social sciences and asked to add their perspectives toward a unified volume on a specific issue.

While the series necessarily began with Western Europe, volumes in it have moved to follow modern freedom as it emerged, or was struggled for, in other parts of the world. One volume considers ideas of freedom in Asia and Africa; another explores migrations — both forced and unforced — over the past three centuries.

Later volume editors have

included two other Washington University historians — Davis and David Konig, Ph.D., professor of history and director of the Legal

Studies Program. Other Arts & Sciences faculty who have contributed chapters to the project include Derek M. Hirst, Ph.D., current chair of history and the William Eliot Smith Professor of History; Richard J. Walter, Ph.D., professor and former chair of history; and Douglass C. North, Ph.D., the Spencer T. Olin Professor in Arts & Sciences, professor of economics and 1993 co-recipient of the Nobel Memorial Prize in Economic Science.

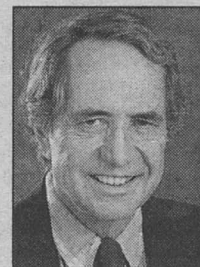
The final volume is being supported through a \$100,000 grant from the Henry R. Luce Foundation. Other support is coming from the Lynde and Harry Bradley Foundation, a longtime and generous supporter of the project, and from personal gifts by Carolyn and Joseph Losos of St. Louis and by Betty and Forrest Steiner of Phoenix.

Published by the Stanford University Press, the "Making of Modern Freedom" series has appeared thus far primarily in hard cover. One volume on the French Declaration of Rights of Man of 1789 has been published in paperback, and plans call for other volumes to be reissued in this format to make them more accessible to scholars and as course books.

The most recent volume to be published is "Terms of Labor: Slavery, Serfdom, and Free Labor," edited by Stanley L. Engerman. It will be followed by "Women, Privilege, and Power," edited by Amanda Vickery, which currently is with the publisher.

Davis expects the final volume on China to be one of the most interesting of the series.

"In terms of freedom's future, China may be the most important nation in the world right now," Davis said. "If the Chinese state takes a turn in another direction, then the whole status of freedom in our society could be endangered."



Davis: Chronicling development of freedom

YouDecide.com is new benefit offering

By CHRISTINE FARMER

University employees can save money on everything from auto insurance to legal services with a free new benefit called "YouDecide.com."

This voluntary benefits offering provides one-stop shopping and discounts for auto insurance, home insurance, auto financing, home financing, refinancing, home equity loans, legal services, pet insurance, real estate solutions, financial planning and tax preparation.

"Offering this voluntary benefits program to our employees not only supports our philosophy of providing a variety of benefit choices to meet individual and family needs, but more importantly helps our employees make some of life's most important decisions," said Justin L. Ford, director of human resources planning.

Consumer Financial Network (CFN) in Atlanta, an electronic marketplace that brings together buyers and sellers of financial benefits and other consumer

services, provides the service under the YouDecide.com brand name. Major corporations, health systems and non-profit organizations, including Georgia Tech, the University of Connecticut, Texas A&M and the University of Pennsylvania, are among their clients.

Here's how it works: Employees request information on insurance, financing or other services via the Web or telephone. CFN will collect the appropriate employee information and forward it electronically to qualified providers. Customized quotes are then obtained from multiple providers, and CFN forwards employees summarized statements from which they can choose the best solution from the top three.

"Because this benefit is offered through the University, these discounted rates are greater than employees would find in the retail marketplace," Ford said. "CFN beats the cost of users' existing coverage in 75 percent of all cases at an average savings of \$550 per quote. And they usually have two

or three providers for the employee to choose from."

CFN negotiates special rates with providers who pay to be part of CFN's network. Current providers include First USA, Chubb, Transamerica, Bank One, Chase Manhattan Bank, American Express and Progressive Insurance.

"They are able to leverage the highest quality providers with group buying power," Ford said. "Not only is there no cost to the employees, but the service is also free for the University."

To access via the Internet, go to <http://www.youdecide.com/> corporate or you may access through the benefits section in the new Human Resources Web site (<https://hr.wustl.edu>). First-time users must register for the service. Click on the "First Time Here?" handshake. The Washington University client identification is WU351. Employees may also call 1-800-663-7520. Customer advisers are available 24 hours a day every day to answer questions or assist in the quoting process.



Primate research Terry Gleason, a doctoral student in anthropology in Arts & Sciences, and Ingrid Porton, the St. Louis Zoo's curator of primates, discuss black-bearded sakis, a rare type of New World monkey. The zoo's Field Research for Conservation (FRC) Program recently awarded Gleason an \$8,875 grant for a 15-month study of the feeding behavior, ecology and social structure of sakis at a protected lowland reserve in Guyana. The FRC grant is the first awarded for a Washington University graduate student thesis project.

Board meets, elects new trustees

The University's Board of Trustees met Friday, May 5, and elected three new members, David V. Habib Jr., M.D., director of Teaneck Radiology in Teaneck, N.J.; Walter L. Metcalfe Jr., chairman of Bryan Cave LLP; and Howard L. Wood, co-founder and director, Charter Communications Inc.

The board also named two former trustees to emeritus status — Jerome F. Brasch, president of Brasch Manufacturing Co. Inc., and Alvin J. Siteman, chairman and president of Site Oil Co. of Missouri.

Three former trustees were re-elected to the board: Clarence C. Barksdale, board vice chairman; Stephen F. Brauer, president of Hunter Engineering; and Mary Ann Krey Van Lokeren, chief executive officer of Krey Distributing Co.

Current trustees re-elected to regular terms are John W. Bachmann, managing partner of Edward Jones; Benjamin F. Edwards III, chairman, president and chief executive officer of A.G. Edwards Inc.; David W. Kemper, chairman, president and chief executive officer of Commerce Bancshares Inc.; Andrew E. Newman, chairman and chief executive officer of Race Rock International; Craig D. Schnuck, chairman of the board and chief executive officer of Schnuck Markets Inc.; Andrew C. Taylor, president of Enterprise Rent-A-Car Co.; and Ronald L. Thompson, chairman of the board and chief executive officer of Midwest Stamping Co.

Elected board officers are: John

F. McDonnell, retired chairman of the board of McDonnell Douglas Corp., chairman; as vice chairmen, Clarence C. Barksdale, Chancellor Emeritus William H. Danforth, and Sam Fox, chairman and chief executive officer of Harbour Group Ltd.

In other action, the Trustees received a report from Chancellor Mark S. Wrighton. Wrighton recognized the great success of the Campaign for Washington University in generating support for 77 endowed professorships. He also noted that deposits for the entering Class of 2004 were coming in slightly ahead of estimates for a fall enrollment of 1,280 new students.

Jonathan S. Turner, Ph.D., the Henry Edwin Sever Professor of Engineering, made a faculty presentation on the subject of "Growing the Internet: From Science Experiment to Global Utility." Brauer followed with an update on the activities of the School of Engineering and Applied Science National Council.

Trustee Barbara Schaps Thomas briefed the Trustees on the status of the University's revised identity system and logotype effort. Thomas, senior vice president and chief financial officer of Time Warner Sports/HBO Sports, chairs the University's Public Relations Council.

Undergraduate student representatives to the Board Larissa Malmstadt, a senior biology major, and Matthew Mitro, a senior history and economics major, both in Arts & Sciences, presented reviews of the year. Gavin Chan, a doctoral

student in earth and planetary sciences in Arts & Sciences, and Holly Williams, a master's student in architecture, gave the graduate student representative report. Arnold W. Strauss, M.D., the Alumni Professor of Pediatrics and professor of molecular biology and pharmacology, gave the faculty review of the year.

Newly elected Trustee David V. Habib Jr. is the parent of two Washington University graduates and has served as director and owner of the Teaneck Radiology Center since 1983. He received an undergraduate degree from Princeton University in 1970 and a medical degree from the Columbia College of Physicians and Surgeons in 1974. An active supporter of Washington University, he also has served on the Board of Advisors to Harvard University (1990-93), on the executive committee of the John F. Kennedy School of Government (1993-98) and as head coach for the Tenafly (N.J.) Little League. Habib holds patents in radiology and has published several articles in urological and radiological journals.

Walter L. Metcalfe Jr. graduated from the University in Arts & Sciences in 1960 and earned a law degree four years later from the University of Virginia. He returned to St. Louis, where he rose to become chairman of Bryan Cave LLP, which has some 600 lawyers and ranks among the 50 largest law firms in the world. Metcalfe oversees Bryan Cave operations in New York, Washington and other American cities, southern California, London, Saudi Arabia, Kuwait, United Arab Emirates, Hong Kong and Shanghai. In addition to his volunteer activities on behalf of the University, he serves on the boards of the Boy Scouts of America, Regional Chamber and Growth Association of St. Louis and the Danforth Foundation.

Howard L. Wood co-founded Charter Communications Inc., the fourth largest U.S. operator of cable television properties, in 1993. Wood, a 1996 Distinguished Alumni Award recipient, graduated with honors from the John M. Olin School of Business in 1961 and has remained an active supporter of the University and the business school. A certified public accountant, he worked for Arthur Andersen and Co. for 26 years before joining CenCom Cable Associates Inc. in 1987. He became director of Charter Communications in 1993. Wood has been president of the Conservation Federation of Missouri and co-chaired the Olympic Festival Organizing Committee that brought the 1994 U. S. Olympic Festival to St. Louis.

Students win Olin Cup

Each spring, the Hatchery Advisory Board of the John M. Olin School of Business chooses the top MBA and undergraduate teams in the Hatchery entrepreneurship course, naming them winners of the Olin Cup. The board, comprised of faculty, leading entrepreneurs and venture capitalists, assesses each team based on its presentation of the business plan it developed either for its own business idea or for an outside entrepreneur's venture.

This year, on May 3, 11 teams presented their business plans, including analyses of target market, marketing and operations as well as financial projections.

Winners in the MBA division are:

• **1st place: Sentinel Fire Solutions LLC**, an exclusive supplier of a patented fire suppression technology to the automotive industry. The team — Matthew Bailey, Kay Grabanski, Brian Jurcak, Frank Romano and Clint Rybak — originated this idea.

• **2nd place: Connexus Inc.**, offering various Web tools allowing elementary schools to use the Web conveniently as an administrative communication tool. Team members Rebecca Hamilton, Caleb Stephenson and Nicolas Voirot developed an outside entrepreneur's idea.

• **3rd place: Nexstar Finan-**

cial Services, developing a business and marketing plan for an outside entrepreneur's expansion into interactive media. The team included Anar Desai, Justin Forer, Patrick Gilligan and David Hazelton.

Winners in the undergraduate division are:

• **1st place: BottleBid.com**, an e-commerce start-up seeking to increase product availability and price competition in the alcoholic beverage industry by creating an Internet Trade Exchange for retailers nationwide. Team members Tucker Boren, Christopher Gimbert and Brian Katz originated this idea.

• **2nd place: Mitchell's Majik**, a Missouri-based food producer that has launched two specialty food products — Mitchell's Majik Spicy Mayonnaise and Mitchell's Majik Spicy Honey Mustard. Team members Cole Dunlavey, Jesse Falowitz, Jonathan Pardo and Robert Taylor originated this idea.

The first-place winners of the Olin Cup — Sentinel Fire Solutions and BottleBid.com — are eligible to be considered for funding from the Skandalaris Seed Capital Fund, set up this year (see related story on page 1). Business plans from recent Hatchery students also are eligible for consideration. Any funding is expected to be announced by the end of August.

Hatchlings

Fund to support new business ventures

— from page 1

must make regular financial reports to the advisory board, which will oversee the investment fund.

Dean Stuart I. Greenbaum said the fund will greatly benefit the school in several ways. "Offering students the prospect of receiving funding, thanks to the Skandalaris' generosity, will no doubt stimulate the entrepreneurial spirit of our students and attract greater numbers of entrepreneurially minded students to Olin," he said. "In addition, the first 3 to 5 percent of earnings from the fund will create Skandalaris Scholarships for deserving Olin students."

About 10 other top business schools have similar funds, but Olin is the only one to have both the Hatchery program and a seed capital fund, according to Barton Hamilton, Ph.D., assistant professor of economics and management and director of the Hatchery. "Our students are very enthusiastic about the seed capital fund, as well as about what they learn through the Hatchery," Hamilton said. "It's one of our great experiential learning programs. Everyone enrolled in it can apply what they've learned in financial analysis, strategy, organizational behavior, marketing and/or other business areas, as they work, usually as part of a team, to create a business plan for a new venture."

"Maybe one out of 20 ideas funded will end up a home run, something like a Microsoft," he said.

Employment

Use the World Wide Web to obtain complete job descriptions. Go to cf6000.wustl.edu/hr/home (Hilltop) or medicine.wustl.edu/wumshr (Medical).

Hilltop Campus

Information regarding positions may be obtained in the Office of Human Resources, Room 130, West Campus. If you are not a WU staff member, call 935-9836. Staff members call 935-5906.

Secretary/Technical Typist 000102
Assistant Director, Management Systems 000149
Administrative Coordinator 000160
Communications Relations I 000188
Research Assistant 000191
Department Secretary 000209
Department Secretary 000222
Sales Associate (part time) 000229
Manuscripts Cataloger (temporary) 000230
Systems Manager 000239
Manager of Employer Relations 000240
Lab Technician III 000241
Administrative Aide 000244
Residential College Director 000248
Department Secretary 000251
Associate Director of Capital Projects 000253
Research Technician 000256
Contract Management Liaison 000258
Administrative Coordinator, External Relations 000259
Administrative Secretary 000261
Watchman (licensed) 000262
Secretary/Receptionist 000265
Admissions Assistant 000266
Deputy Police Officer 000272
Administrative Assistant 000273
Library Technical Assistant 000275
Manager of Systems Support and Development 000277
Administrative Assistant 000278
Assistant Director of the Writing Program (part time) 000279
Administrative Receptionist 000280
Sponsored Projects Specialist 000281

Department Secretary 000283
Accounts Receivable Service Representative 000288
Senior Shelving Assistant 000290
Assistant Sports Information Director 000291
Registrar 000292
Operations Project Accountant 000293
Project Accountant 000294
Administrative Secretary 000295
Associate Coordinator 000296
Coordinator of Communications and Special Events 000298
Internship Coordinator 000299

Associate Director of Information Systems 000302
Assistant Director of Admissions 000304
Assistant to Director of Operations 000305
Research Assistant (part time) 000306
Department Secretary (part time) 000307
Research Assistant 000308
Research Assistant 000309
Application Processor II 000311
Application Processor II 000312
Senior PC Support Specialist 000314
Medical Campus
This is a partial list of positions at the School of Medicine. Employees: Contact the medical school's Office of Human Resources at 362-7196. External candidates: Submit resumes to the Office of Human Resources, 4480 Clayton Ave., Campus Box 8002, St. Louis, MO 63110, or call 362-7196.
Professional Rater (part time) 000299
Medical Secretary I (part time) 001272
Staff Scientist 001358
Research Technician II 001385
Special Project Assistant 001497
Research Patient Assistant 001548
Systems Manager 001575
Supervisor, Clinical Office 001717

Campus Watch

The following incidents were reported to University Police from May 1-7. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This release is provided as a public service to promote safety awareness and is available on the University Police Web site at rescomp.wustl.edu/~wupd.

Crime Alert

On Thursday, May 4, a student reported that a carjacker struck her as she got out of her Ford Explorer, which she had just parked near the Psychology Building. The man pushed her back into her car, beat her and started to drive off. The student was able to escape from the car; the carjacker took her vehicle, along with her purse, laptop computer, cell phone and books.

University Police recommend that members of the campus community take the following precautions: avoid walking alone when possible, report any suspicious people or activity, avoid unnecessary risks and contact University Police for a

security escort when needed. Anyone with any information that might assist in the investigation of this incident is asked to call the police at 935-5555.

May 1

3:59 p.m. — A student reported the theft of a mountain bike, valued at \$1,030, from an unlocked storage closet in the Sigma Phi Epsilon fraternity house.

University Police also responded to 18 additional theft reports, two false fire alarms, and one report each of attempted forcible entry, assault, burglary, property damage, telephone harassment and trespassing.

Notables

Arts & Sciences presents Alumni Awards and Dean's Medal

Arts & Sciences will recognize the achievements of its alumni and special friends at 4 p.m. May 19 in Holmes Lounge, Ridgley Hall.

Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts & Sciences, will present Distinguished Alumni Awards to six alumni who have attained distinction in their academic or professional careers and have demonstrated service to their communities and to the University. The Dean's Medal will be awarded to Richard A. Roloff, executive vice chancellor, for his support and dedication to Arts & Sciences.

The six alumni being honored are Ted Drewes, A.B. '50; Carol Tucker Foreman, A.B. '60; John L. Gianoulakis, A.B. '60; Winifred Bryan Horner, A.B. '43; Jeffrey Hunt Mantel, A.B. '70; and Elizabeth Gentry Sayad, A.B. '55 and a master of liberal arts candidate in Arts & Sciences' University College.

Drewes owns the beloved local business Ted Drewes Frozen Custard, which was founded by his father in 1929. Since then, patrons have been lining up at the two Ted Drewes stands — one on Chippewa Avenue and the other on South Grand Boulevard.

An avid advertiser for his products, he seldom discloses his own philanthropy. He donates frozen custard to local fund-raisers and to Boys Hope, and actively supports Shriners' causes and children's hospitals. Among the college students who work for him, he is well known for his generosity, offering

\$3,000-a-year scholarships to encourage his employees to stay in school.

An economics major in Arts & Sciences, Drewes is a strong supporter of the University as a member of the William Greenleaf Eliot Society and occasional grand marshal of the Homecoming parade.

Foreman, a legend in American agricultural circles, has an international reputation as a consumer advocate and food policy expert. For more than 25 years, she has worked at the highest levels of government and advocacy organizations to ensure that Americans have an adequate supply of safe, nutritious and affordable food.

Among her many achievements, while assistant secretary of agriculture in President Carter's administration, she won thorny political battles, including broadening food stamp coverage for the poor and developing landmark "Dietary Guidelines for Americans." Foreman became a distinguished fellow and director of the Food Policy Institute at the Consumer Federation of America in 1999.

A political science major, she has been active in alumni affairs, served on the University's Board of Trustees for 10 years and received the University's Distinguished Alumni Award in 1978.

Gianoulakis, a founding partner in the St. Louis law firm of Kohn, Shands, Elbert, Gianoulakis & Giljum LLP, is a highly respected trial lawyer

and a fellow of the American College of Trial Lawyers, an invitation-only organization comprising 1 percent of the nation's attorneys.

His practice has consisted primarily of civil trial work: representation of public school districts, defense of employment discrimination cases and business litigation. From 1983 to 1999 he served as negotiator, then lead attorney for St. Louis County school districts in the interdistrict desegregation case, the largest voluntary interdistrict transfer case of its kind in the country.

Gianoulakis, a political science major in Arts & Sciences and a 1963 Harvard Law School graduate, is a strong supporter of the University. Among his activities, he serves on Campaign, Scholarship, and Capital Resources committees for Arts & Sciences and sponsors a student scholarship.

Horner has been described as a "heroine in rhetoric and composition." Before her second retirement in 1996, she had a distinguished career at two universities as master teacher, expert on 18th- and 19th-century Scottish rhetoric and author of 13 books and many articles. Among the 15 awards she has received is Rhetorician of the Year in 1997 from the Young Rhetoricians' Society.

She received a master's in English literature from the University of Missouri at Columbia in 1961, then began climbing the academic ladder there. At age 50, she began doctoral studies at the University of Michigan, receiving a Ph.D. in 1975. In 1985, after retiring from the University of Missouri as a full professor, she accepted the Radford Chair of Rhetoric and

Composition at Texas Christian University, where she later became the Cecil and Ida P. Green Distinguished Emerita Professor.

Horner is a member of the Eliot Society and a Century Club supporter.

Mantel has been a successful senior executive with expertise in global business management, product development, systems design, derivatives trading and risk management for several international firms: The Mocatta Group; Philbro/Salomon; Mase Westpac; Deutsche Bank; FNX Ltd.; MKI Risk Inc.; and Infinity Financial Technology. Last year Mantel became vice president of product management for Buckaroo.com, a California-based Internet start-up company building an electronic exchange for trading manufactured commodities.

A mathematics major as an undergraduate, he earned a doctorate in mathematics at Northwestern University. After college, he played semi-professional soccer for three teams and worked as a professional soccer referee full time before taking a job as a commodity derivatives trader on Wall Street.

A member of the Eliot Society, he has endowed an Arts & Sciences scholarship in mathematics.

Sayad, a musician by training, is a devoted civic leader and volunteer with a special focus on the arts. She has led the arts community in various roles: founding president of the New Music Circle, charter member of the Missouri Arts Council and the Regional Arts Commission and advisory commissioner of the Saint Louis Art Museum.

Opening-night celebrations

are her forte, chairing or co-chairing festivities for the Loretto Hilton Repertory Theatre, Powell Symphony Hall and the Kennedy Center in Washington, D.C., among others. She will chair the 2004 Bicentennial Ball for the Louisiana Purchase. In 1991 she published "A Scarlet Thread: Collected Writings on Culture and the Arts."

An Eliot Society member, Sayad has supported Arts & Sciences as two-time president of the Century Club, member and host of both the Friends of Music and the Nemerov Poetry Reading.

In recent years the University has been transformed by the construction and renovation of many buildings. All these projects fall under the purview of **Roloff**, a 1951 graduate with a degree in industrial engineering.

Roloff has been invaluable to Arts & Sciences in planning for space in which to conduct its activities. He has guided the construction of McDonnell Hall, the Psychology Building and new student dormitories; the complete renovation of Duncker, Brookings and Eads Halls, as well as the updating of many other buildings; and the groundbreaking for the new Laboratory Science Building. He also has been instrumental in planning for important future needs.

His responsibilities extend beyond facilities. Quietly and meticulously, he oversees the entire administrative functioning of the University, from lawn maintenance and trash pickup to investment and finance — everything needed to support academic life.

Before joining the University's administration in 1991, Roloff was a Board of Trustees member.

Architecture students earn prizes

The School of Architecture recently announced student competition winners. Graduate student Karl Gustafson won a \$3,500 fellowship in the school's 2000 Steedman II Competition for his portfolio and proposal to study the work of noted 20th-century Swedish architect Sigurd Lewerentz. Gustafson will focus on Lewerentz's Resurrection Chapel and Woodland Cemetery in Stockholm and St. Petri Church in Klippan, Sweden.

Graduate student Martin

Padilla received the first Ralph H. Jackson Jr. Flad Prize. Flad & Associates created the award in honor of Jackson, an architecture alumnus who is retiring as president of the firm. Padilla was selected to receive the award, which will be given annually, in recognition of his outstanding academic record, portfolio and professional promise as a designer. The prize includes a \$2,500 stipend and a paid internship in Flad's St. Louis office.

Obituaries

Morris Davidson, professor emeritus of otolaryngology at medical school

Morris Davidson, M.D., professor emeritus of otolaryngology at the School of Medicine, died Thursday, April 20, 2000, of cardiac arrest at Barnes-Jewish Hospital. Davidson, a physician for 50 years, was 85.

A private service was held April 25 at Jefferson Barracks National Cemetery. This included a color guard, gun salute and taps in honor of Davidson's service as a

flight surgeon in World War II. A memorial service also was held May 2 at Barnes-Jewish Hospital.

Davidson was born in Milwaukee and raised in Elkhart,

Ind. He received a medical degree from Indiana University in 1938 and was an otolaryngology resident at Barnes Hospital. He became a clinical otolaryngology instructor at the medical school in 1948.

As a U.S. Air Force physician, he was assigned to Labrador, Hawaii and the South Pacific. He also served at what is now Scott Air Force Base. Davidson helped evacuate wounded soldiers in five invasions in the Pacific. And he witnessed the Japanese surrender aboard the battleship Missouri.

Davidson was an accomplished skier, beekeeper, gardener, gentleman farmer, pilot and published photographer.

Among survivors are his wife of 57 years, Louise; son, Richard Davidson, M.D., of St. Louis; three daughters, Susan Davidson, Elizabeth Davidson and Sallie Bieber, all of St. Louis; and five grandchildren.

Robert Pollak receives Mindel C. Sheps Award

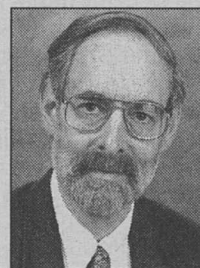
Robert A. Pollak, Ph.D., the Hernreich Distinguished Professor of Economics in the College of Arts & Sciences and the John M. Olin School of Business, has received the prestigious Mindel C. Sheps Award, sponsored by the University of North Carolina, Chapel Hill, and the Population Association of America.

The award, which carries a \$5,000 cash prize, is given every two years for outstanding contributions to mathematical demography and related fields.

Among demographers, Pollak is best known for solving demography's long-standing "two-sex problem." He developed a well-specified nonlinear model

that, by relaxing the assumption that women's fertility rates are fixed, allows the number of marriages (and thus births) to depend on the number and ages of men as well as women. Unlike traditional models, which consider women only, Pollak's model also considers men and allows for temporary imbalances between the female and male populations of marriageable age.

The Sheps Award also recog-



Pollak: Award given biannually

nized Pollak's other work on fertility, investment in human capital and the role of bargaining in determining resource allocation within families.

The award commemorates the life and work of Mindel Sheps, a woman who pioneered in the application of mathematics to the analysis of human reproduction.

Pollak is a fellow of the American Academy of Arts and Sciences and recently received a fellowship from the John Simon Guggenheim Memorial Foundation. He also co-chairs the interdisciplinary Network on the Family and Economy, funded by a grant to the University from the John D. and Catherine T. MacArthur Foundation.

Law students win high moot court honors

Students at the School of Law recently captured high honors in a number of national lawyering skills competitions.

Third-year students Andrew C. Ruben and Gilbert C. Sison and second-year students E. Regan Loyd, Kevin P. Ray and Edward M. Shin ranked third out of 132 U.S. teams and 13th among more than 300 teams worldwide in the 2000 Phillip C. Jessup International Moot Court World Cup. The team, coached by Leila Nadya Sadat, J.D., LL.M., D.E.A., professor of law, won the south-east regional competition to advance to the nationals and internationals.

Third-year students Anastasia

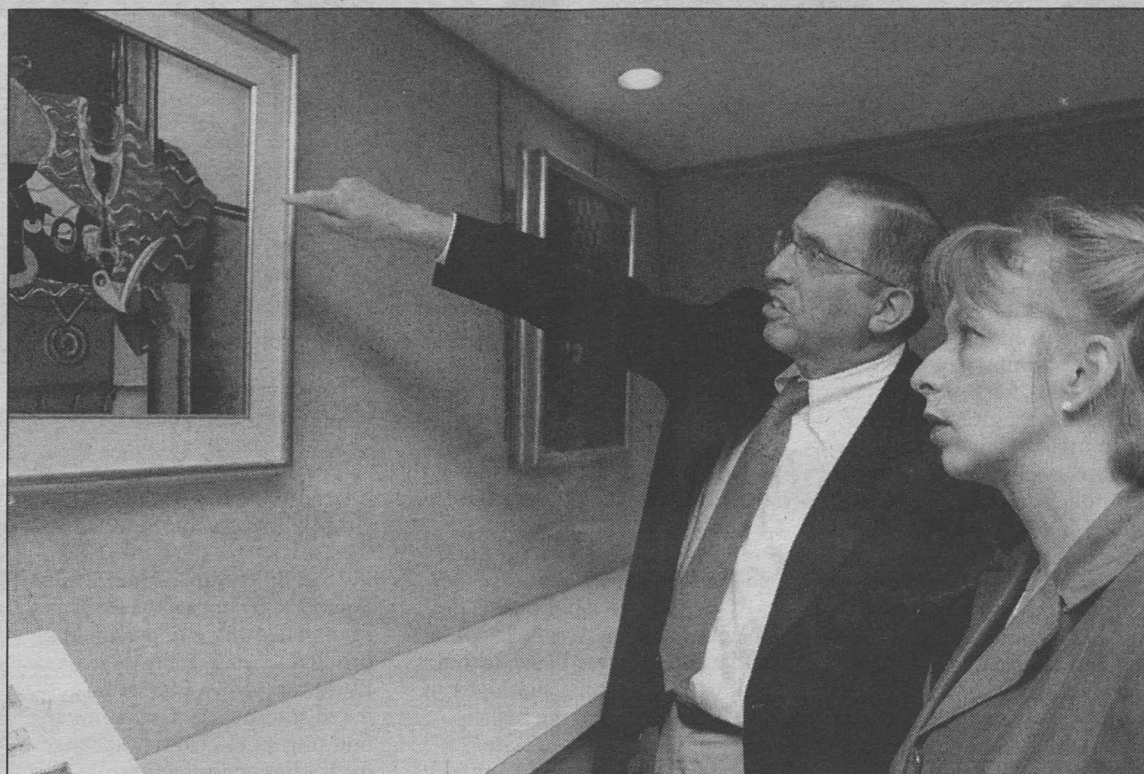
Burkham, Jared R. Montgomery and Rena M. Samole reached the quarterfinals in the National Environmental Law Moot Court Competition, in which 75 teams competed. The team's adviser, Maxine I. Lipeles, J.D., who holds a joint appointment in the law school and School of Engineering and Applied Science, directs the law school's Interdisciplinary Environmental Clinic.

Third-year students Gabrielle Melissa Ince and Bart A. Starr won Best Brief in the midwest regional round of the Giles Sutherland Rich Intellectual Property Moot Court Competition, in which more than 20 teams competed. In the

Saul Lefkowitz Intellectual Property Law Moot Court Competition, second-year students Heather L. Dary, John Hein and Danica L. Rodemich took second place in the regional round, in which 12 teams competed. Charles R. McManis, J.D., professor of law, serves as the adviser for both these competitions.

Second-year students Kevin P. Gordon and Edward M. Shin won second place in the midwest regional round of the American Bar Association Client Counseling Competition, out of a dozen teams competing. The faculty adviser is Ann Davis Shields, J.D., lecturer in law.

Washington People



Mark S. Weil, Ph.D., the E. Desmond Lee Professor for Community Collaboration in the Arts and director of the Gallery of Art, examines Georges Braque's "Still Life with Glass" (1930) with the gallery's curator, Sabine M. Eckmann, Ph.D.

Ardent ambassador for the arts

Mark S. Weil, Ph.D., knits diverse fields together in appreciation of visual arts

BY LIAM OTTEN

The academic life is often imagined a lonely pursuit, full of exhaustive study and solitary rumination. The reality, as anyone who's spent much time on the Hilltop Campus might tell you, is that education is a cooperative venture and, moreover, that forging new educational opportunities takes negotiation, organization and the ability to create consensus. Just ask Mark S. Weil, Ph.D., the E. Desmond Lee Professor for Collaboration in the Arts and director of the Washington University Gallery of Art.

"I have found that, generally speaking, two or more minds are better than one mind," Weil said with a laugh. "Scientists work this way all the time, but humanists tend not to. Which is certainly a shame."

Apt sentiments from a man whose many duties also include chairing the University's Visual Arts and Design Center (VADC), a cooperative venture aiming to link the Gallery of Art, School of Art, School of Architecture, Department of Art History and Archaeology in Arts & Sciences and the Art and Art History Library through shared facilities and curricular programming.

Schapiro's tutelege

Born and raised in St. Louis, Weil earned a bachelor's degree in art history from Washington University in 1961 before decamping for New York — specifically, for Columbia University, where he quickly fell under the sway of the great art historian Meyer Schapiro. During his first semester, Weil took two courses with Schapiro; one of these, a seminar on early Christian painting, would prove formative.

As a first-year graduate student, Weil was initially overwhelmed by Schapiro's demanding schedule and briefly considered auditing the course. By way of compromise, Schapiro instead assigned Weil to write a close analysis of three miniatures from the famed "Vienna Genesis," a sixth-century manuscript in the collection of Columbia University. A week later Weil had selected four, all illustrations from the life of Joseph.

"Schapiro asked me what I had selected, and I told him, and he said: 'Mr. Weil, you have picked the most beautiful miniatures in the book,'" Weil recalled. "But if you're going to work on the life of

Joseph you need to read the following,' at which point he rattled off six books written in German. So he not only taught me about the history of art; he also taught me to read German."

Weil spent the next nine months researching what would become a 12-page paper, though as the year drew to a close he continued working on an exhaustive bibliography. Schapiro, Weil remembered, was unimpressed. "Dear boy," he told me, "either you hand me the paper and I will know your bibliography or you hand me your bibliography and I will know the paper you would

"One of the advantages to ... a place like Washington University is that you get to work with fabulous people from a wide variety of disciplines."

MARK S. WEIL

have written.' And of course, only from Meyer Schapiro would one believe a statement like that.

"It was one of the formative experiences of my life," Weil concluded. "The man trained me to have the discipline to study a new field and to do excellent work in the process."

Weil received a doctorate in 1968 and soon joined the art history faculty here. Over the next 30 years he would teach courses on Renaissance architecture, Northern Renaissance art, Mannerism, Italian Baroque art, Rembrandt van Rijn and 15th-through 17th-century art theory, among many others. He twice served as department chair, 1982-88 and 1995-99.

Weil's scholarship falls into four primary areas: Italian Baroque sculpture, 16th- and 17th-century garden and stage design, the Marvelous and connoisseurship. Over the years he has authored numerous articles and exhibition catalogues as well as a book on "The History and Decoration of the Ponte S. Angelo" (1974). Significantly, he has written several works in collaboration with other scholars, including articles with art historians Rudolph Primesberger and Margaretta Darnall and catalogues with curators Roger Ward of the Nelson-Atkins Museum of Art in Kansas City; Barbara Butts, formerly of the Saint Louis Art Museum; and Thomas Rassieur, now of the Museum of Fine Arts, Boston.

Weil was named director of the

Gallery of Art in 1998, but even before that he found ample opportunity to don the curator's cap, organizing exhibitions on "Baroque Theatre and Stage Design" (1983) and "Master Drawings From the Nelson-Atkins Museum of Art" (1989). Other exhibitions on which he collaborated include "The Age of the Marvelous" (1991) for Dartmouth College and "Men, Women, and God: German Renaissance Prints From St. Louis Collections" (1997) for the Saint Louis Art Museum.

Throughout his career, Weil has continually sought opportunities to bring colleagues from other university areas into a dialogue with the visual arts. In the mid-1970s, for example, he

and his wife, Phoebe, herself a renowned art conservator, were part of an interdisciplinary group, led by Robert M. Walker, Ph.D., the McDonnell Professor of physics in Arts & Sciences, that founded the Center for Archaeometry, an organization that would pioneer new methods for cleaning and restoring sculpture.

In the early 1980s Weil organized a campuswide Baroque festival that included an exhibition, a symposium and a production of Handel's opera "Orlando" featuring faculty and students from the Department of Music in Arts & Sciences. A few years later, Weil helped organize a Japanese Festival that included a groundbreaking exhibition of early 20th-century Japanese oil painting titled "Paris in Japan."

"These are really typical, I've discovered, of the kinds of things I find myself doing," Weil said with a slight, bemused smile. "One of the advantages to working at a place like Washington University is that you get to work with fabulous people from a wide variety of disciplines."

These days, between teaching, directing the gallery and overseeing the development of the VADC, Weil is a man with precious little free time.

"Gallery" is really a bit of a misnomer," Weil explained. "We are a fully accredited museum with a collection of more than 3,000 works of art and an additional 14,000 Greek, Roman and Byzantine coins."

The gallery's mission, as he sees it, is three-fold: to care for those works of art; to make them accessible to scholars and to the general public through exhibitions and programming; and to organize exhibitions of borrowed works of art that enlarge on the University collection.

To the latter end Weil, who is also a trustee of the Saint Louis Art Museum, is well served by strong ties to the local art community and to museum professionals nationwide. Recent gallery offerings have included exhibitions of African art and Japanese painting, both culled entirely from local collections, as well as a show of more than 20 busts by the great French sculptor Jean-Antoine Houdon (1741-1828) from the Michael Hall Collection, New York.

"Mark is deeply committed to the arts in St. Louis," said Chancellor Mark S. Wrighton. "His close ties to both the regional and the national arts community make him an outstanding ambassador for the visual arts at Washington University. I look forward to exciting developments in this area under Mark's leadership in the years to come."

If the gallery, with its exhibitions and attendant programming, is the most public face of the visual arts at the University, Weil has been busy behind the scenes as well. In 1995 he became a founding member of the VADC executive committee and last year was appointed its chair.

Developing the VADC

"Our principal activity at the moment is planning facilities," Weil explained. "This involves the renovation of three buildings [Bixby, Steinberg and Givens halls, all at the eastern end of campus] and the construction of an additional building, which is being designed by one of the world's great living architects, Fumihiko Maki of Japan."

"Our other job is to put together a series of interdisciplinary programs — both curricular programs and public events — that will enhance the study of the visual arts at Washington University."

Yet despite the demands of heading two significant campus areas, Weil still finds time to work directly with students, both through internships — the Gallery hires around 30 work/study students each year — and in the classroom. Last year Weil instituted a series of seminars on connoisseurship to give students a hands-on understanding of the curator's role.

"Washington University possess all the resources necessary to becoming a national venue for the study of the visual arts — strong academic programs, renowned faculty and one of the finest university art collections in the country," Weil concluded. "The most important role I play is simply to help make the University an important place for people to visit as they look to broaden their knowledge of the visual arts."

Mark S. Weil, Ph.D.

Education A.B., Washington University, 1961; M.A., Columbia University, 1964; Ph.D., Columbia University, 1968

University position The E. Desmond Lee Professor for Community Collaboration; director, Gallery of Art; chair, Visual Arts and Design Center

Family Wife, Phoebe; sons Daniel and Alexander.