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## Washington University Record, August 21, 1997

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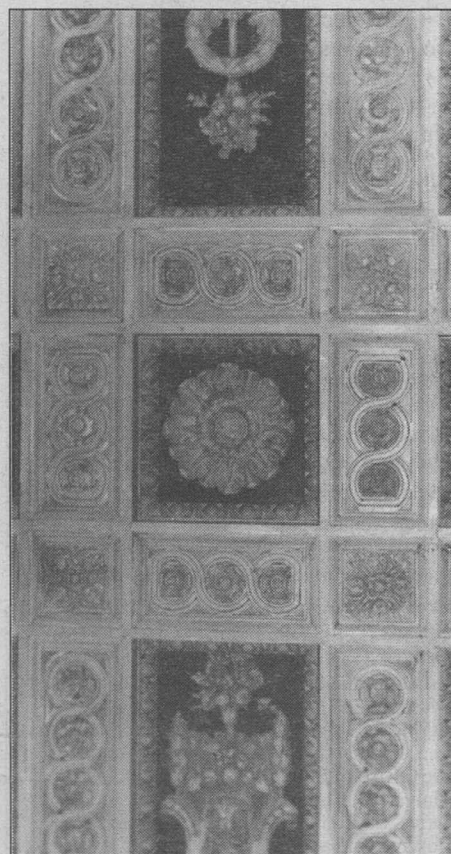
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Above: A workman sands the wooden floor in Holmes Lounge last week as part of a three-month renovation project. Below: A detail of the room's elaborate ceiling.



## Renovation work on Holmes Lounge nearing completion

Almost 95 years to the day the cornerstone was laid for Ridgley Hall, renovation of the hall's Holmes Lounge will be completed. The upgrade will make Holmes a top-notch place for social gatherings.

"The University needed an elegant area suitable for faculty, student and alumni functions," said Executive Vice Chancellor Richard A. Roloff.

The three-month project to upgrade Holmes is expected to be finished by mid-September. The facility will have new windows, a refinished wooden floor, freshly painted walls and — for the first time — central air conditioning. A highlight of the work is the restoration of the room's spectacularly ornate ceiling, right down to matching its original dark- and light-green color scheme.

In the future, the room, which seats as many as 250 people, will be

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## McDonnell Douglas Foundation gift strengthens educational ties

Washington University received \$10 million from the McDonnell Douglas Foundation on July 31.

The gift was announced by John F. McDonnell, chairman of the McDonnell Douglas Corp. and of its foundation, and Chancellor Mark S. Wrighton.

The gift is primarily designated for programs in the John M. Olin School of Business and the School of Engineering and Applied Science to foster new ways to strengthen the educational ties between the company and Washington University.

"Washington University is among the finest universities in our nation and a major asset to the greater St. Louis area," McDonnell said. "This gift demonstrates our commitment to higher education and to the St. Louis community."

According to Wrighton, the \$10 mil-

lion gift will be used for the creation of a new research center, research fellowships, endowed professorships and new educational programs.

In announcing the gift, McDonnell noted that the McDonnell Douglas Learning Center has been established in St. Louis and will serve The Boeing Co. after the merger between McDonnell and Boeing is consummated. There are plans to connect the University and the Learning Center using new information technology to enhance the learning experience at both sites.

Responding to the announcement of the gift — the largest ever from the corporation's foundation to Washington University — Wrighton said: "The McDonnell Douglas Corp. and

Continued on back page

## Staff members reach out to the community through United Way Days of Caring program

Volunteering for United Way Days of Caring certainly wasn't like volunteering in the Army. Thirty-three employees freely chose to exchange their usual tasks in engineering, alumni and development, admissions, the English department and 10 other areas, for activities helping persons affected by Alzheimer's disease, adults in day care, disabled youths, or youths in summer camp. Happily, they accepted the University's generous offer to all employees to receive paid time off to work a half day at a United Way-supported agency during Aug. 11 through 17.

Instead of doing their usual work — including processing paperwork, arranging interviews, preparing budgets, and making mail runs — the volunteers found themselves preparing a mailing on Alzheimer's programs, providing guidance and companionship for adults in day care, talking with disabled youngsters, or playing a heated game of basketball or singing with summer campers. Each volunteer worked for either the Alzheimer's Association, Ranken Jordan Home, Jewish Community Centers Association or United Church Neighborhood Houses.

"When you get involved with a project like this," said Steve Oppland, assistant accountant in the School of Engineering and Applied Science, "it makes you see the United Way in a whole new light." He was among volunteers playing ball, pushing a swing and generally being buddies to summer campers at Caroline Mission, in St. Louis' near-southside. "Once you see a program like this, you know it's money well spent," he added. The mission, established in 1913, has

been in its present building at 2828 Caroline St. since 1983. It's one of four neighborhood houses in United Church Neighborhood Houses.

Jane Widbin, director of the mission, who received a bachelor of science degree from University College in Arts and Sciences in 1973 and a master of social work degree from Saint Louis University, said the children have many needs. "Nowadays, what they need more than ever is a sense of neighborhood," she said. "We serve kids in the area bounded roughly by Grand and Jefferson and Highway 40 and Chouteau, and there's a lot of diversity here. A professional may be living next to a family on a fixed income, because the area has homes worth \$140,000 or more and lots of Section-8 housing, as well as scatter-site public housing and income-restricted housing."

Widbin said there's ethnic diversity, too. Though the mission serves primarily African Americans, it has helped children from Eritrea, Somalia, Poland and from countries in Asia and Central and South America. "On top of that," said Widbin, "the kids in our programs come from 60 different schools, and about 20 percent of them have behavioral or learning disorders." A tall challenge. "Without the United Way [which provides half of her budget], we wouldn't make it," she said.

Heather Peracchi, assistant director of undergraduate admissions, another volunteer at Caroline Mission, said the children were very eager for attention.

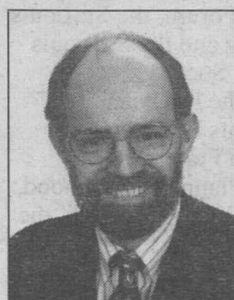
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## Neighbour named technology management associate vice chancellor

P. Andrew Neighbour, Ph.D., current CEO of START, has been named associate vice chancellor for technology management. He will assume the newly created position on Sept. 1, according to Theodore J. Cicero, Ph.D., vice chancellor for research.

Neighbour's career also included a faculty position at the Albert Einstein College of Medicine in New York and 10 years at E.I. du Pont de Nemours and Co. in Wilmington, Del. For the past six years, he has been director and chief executive officer of START, a technology transfer consortium in Gulph Mills, Pa.

On moving to Washington University, he will further develop the technology transfer program, a strategic, comprehensive effort that encourages companies to convert the University's discoveries into products and processes the public can use.



P. Andrew Neighbour

Dr. Neighbour's strong background in the life sciences coupled with his 20 years of experience in technology transfer and new

business development make him an ideal candidate for this position," said Cicero, who also is a professor of psychiatry at the School of Medicine.

The technology transfer program evaluates University research for commercial potential, seeks patents, markets new technologies, negotiates and maintains licenses with corporations, and potentially creates new business enterprises.

"The primary functions of a university are education, research and the expansion of knowledge, but applying that knowledge to advance the public good

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Local teachers take a hands-on approach to teach genetics through a University-education partnership



# Medical Update

## Board members selected to guide clinical practice plan

A 13-member board has been selected to steer development of the newly formed Faculty Practice Plan at the School of Medicine. The board's task is to revamp clinical care at the medical school in order to better serve patients, referring physicians and health-care insurers.

Ralph G. Dacey Jr., M.D., the Edith R. and Henry G. Schwartz Professor of Neurological Surgery and head of the department, will chair the Practice Plan Board, and James P. Crane, M.D., associate vice chancellor for medical affairs, will serve as the plan's chief executive officer. He will relinquish his position as the school's associate dean for clinical affairs to guide the Faculty Practice Plan.

"The objectives of the board are to help the faculty of the School of Medicine deliver high-quality, cost-competitive care," Dacey said. "By improving our service and efficiency and enhancing the practice environment, we hope to make our group practice even more attentive and attractive to patients and referring physicians."

"We have the reputation of being one of the finest research-intensive medical schools in the country and of training many of the best subspecialists currently

practicing," Crane said. "We want the practice plan to support the school's tripartite mission of patient care, teaching and research. Through the creation of an appropriately integrated, comprehensive group practice, we will further enhance the care we provide, and do so at a value-level and a degree of personalized service that our patients and their insurance companies or managed-care plans will appreciate. Strengthening our partnerships with our voluntary faculty and other private physicians is an extremely important part of the process as well."

With more than 800 physicians and clinical revenues of more than \$250 million in 1996, the full-time physician faculty of the medical school now comprise one of the largest consolidated multispecialty group practices in the nation. These full-time faculty physicians and the part-time, voluntary faculty of the school together constitute the medical staff of Barnes-Jewish Hospital and St. Louis Children's Hospital, members of the BJC Health System.

The decision to create a unified multispecialty medical group came after a faculty-based oversight committee led by Crane analyzed the effect of the rapidly changing health-care market on academic

medicine nationwide and specifically in the St. Louis region. Once the committee established initial practice plan goals, all faculty members were invited to react to and discuss these aims during six meetings held in the fall of 1996. Five design teams then addressed ways to cut down on duplicated efforts and to re-engineer clinically related operations. More than 165 faculty members volunteered to serve on the design teams and associated re-engineering work groups.

The new practice plan board, which now is set to accelerate many of the re-engineering activities, includes three full-time faculty members who focus primarily on clinical care. They are Diana L. Gray, M.D., obstetrics and gynecology; Marilyn J. Siegel, M.D., radiology; and Bruce H. Haughey, M.D., otolaryngology.

Besides Dacey, four other Washington University clinical department heads serve on the board. They are: Alex S. Evers, M.D., anesthesiology; Gustav Schonfeld, M.D., internal medicine; Alan L. Schwartz, M.D., Ph.D., pediatrics; and Samuel A. Wells Jr., M.D., surgery. William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the medical school, serves on the board, as does Robert H. Waterston, M.D., Ph.D.,

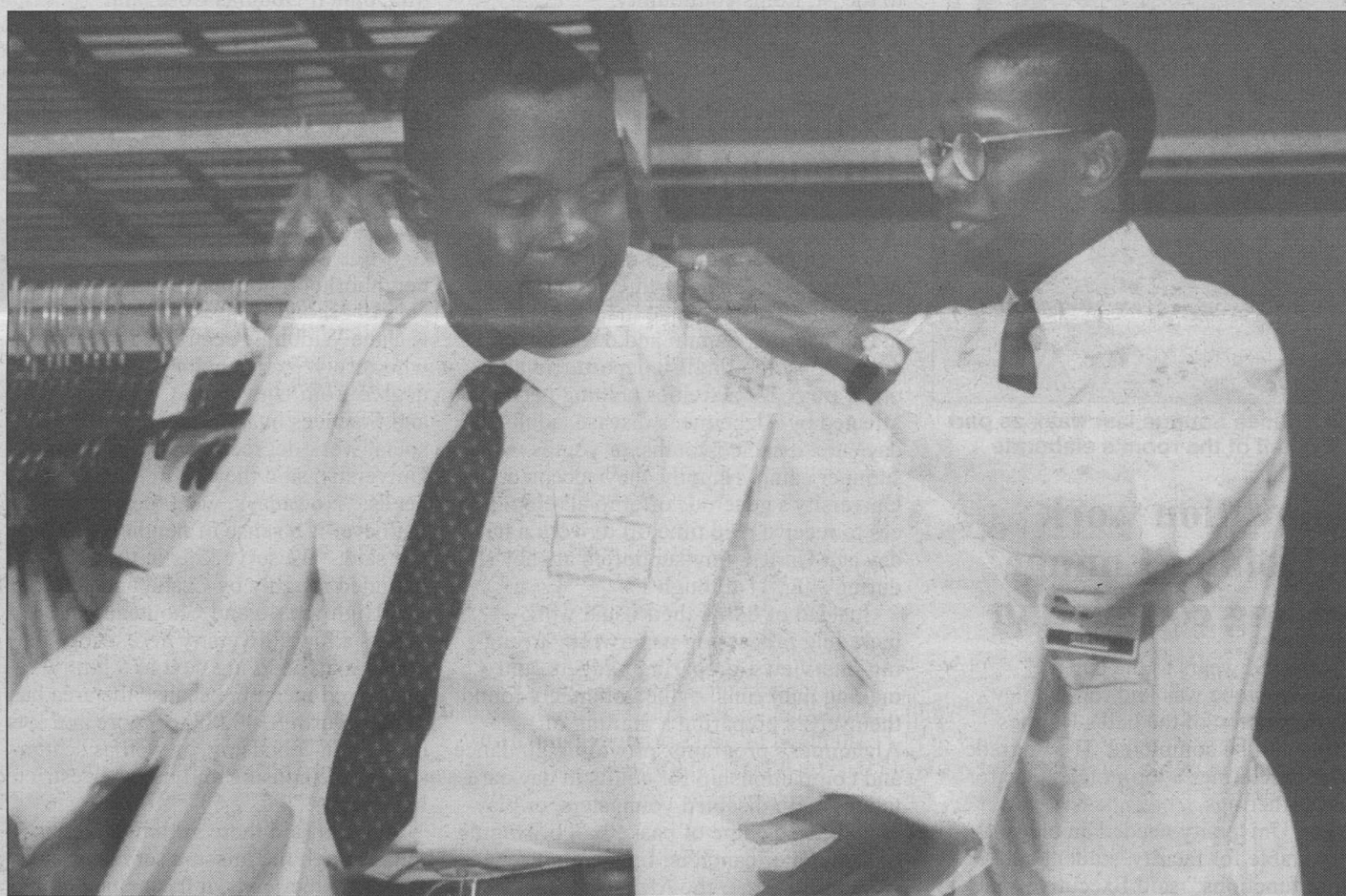
head of the Department of Genetics. As CEO, Crane has a seat on the board.

Two members of the board come from outside Washington University. Vinod K. Sahney, Ph.D., senior vice president of the Henry Ford Health System in Detroit, serves as a representative from another academic health system. The other, yet to be named, will be a business leader.

Several additional executives for the practice plan also have been named. Lee Fetter will fill a half-time position as chief operating officer. He will maintain his positions as associate vice chancellor, associate dean and chief operating officer for the medical school. Ron Chod, M.D., will leave his position as assistant dean for clinical affairs to become the executive director of practice plan development. Joan Podleski, formerly assistant dean of clinical operations at the medical school, will serve as the executive director of clinical operations for the plan. Rose Walker, who previously worked as a clinical administrator in the Department of Medicine, has been appointed as the plan's clinical operations director, working closely with Podleski.

The plan's management staff and the faculty-led design teams will be working with the school's department heads and central administration and with the hospital-based re-engineering efforts currently underway at St. Louis Children's and Barnes-Jewish hospitals to accomplish many goals, including:

- streamlined, integrated appointment scheduling; reduced wait-times for new appointments; performance standards for reducing and limiting waiting-room times for patients who have arrived for an appointment or procedure; and consistent, attentive follow-up with patients;
- efficient, timely and responsive communication with referring physicians and voluntary faculty;
- creation of multidisciplinary clinical centers by clustering physicians' practice locations according to appropriateness, convenience and efficiency;
- new electronic medical record and information systems;
- revamped purchasing operations that use high volume to negotiate favorable contracts.



### Donning the white coat

First-year medical student Kevin Sterling receives his white coat from Will R. Ross, M.D., associate dean and director of the Office of Diversity, Friday, Aug. 15, in Moore Auditorium at the annual White Coat Ceremony. Sterling was among 121 first-year medical students presented with a white coat, which has long been a symbol of the medical profession. Wearing the white coat was initiated at the School of Medicine by George Dock, M.D., dean from 1910-12 and one of the first full-time professors of medicine in the United States.

## Murdock elected president of the National Medical Association

Nathaniel H. Murdock, M.D., has been elected president of the National Medical Association (NMA), the largest group of minority physicians in the United States. He was installed in Hawaii on Aug. 6.

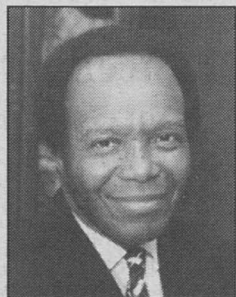
Murdock is a clinical assistant professor of obstetrics and gynecology.

"We're proud that Dr. Murdock has been chosen for this most important national leadership position," said William A. Peck, M.D., executive vice chancellor for medical affairs at the University and dean of the School of Medicine. "His commitment to health care of the highest quality will be a major asset."

Murdock will spend much of his one-year term in Washington, D.C., testifying before Congress and working with the 22,000 physicians the NMA serves.

His top priority is prevention of teen pregnancy. "I think education is the key," Murdock said.

He takes time out of his busy practice to visit local junior-high and high schools, where he talks about birth control, pregnancy and sexually transmitted diseases. "As NMA president, I hope to inspire other physicians to adopt a school," Murdock said, "because teen pregnancy can be prevented."



Nathaniel H. Murdock

Helping doctors cope with the changing health-care system is another major goal. "I hope to educate physicians about how they can survive under managed care," he said.

Born in Texas, Murdock obtained a bachelor's degree in chemistry in 1958 from Howard University in Washington, D.C., and a medical degree in 1963 from

Meharry Medical College in Nashville, Tenn. After further training at Homer G. Phillips Hospital in St. Louis and two years as an Air Force captain, he joined the Washington University faculty in 1969.

Murdock has been active with several local professional organizations, including the Central Eastern Missouri Professional Review Organization Committee, the Missouri State Medical Association, Mound City Medical Forum, the St. Louis Gynecological Society and the St. Louis Metropolitan Medical Society.

In the community, he has been involved with All Saints Episcopal Church, Chi Delta Mu Fraternity, the Haitian Relief Fund, Planned Parenthood, the St. Louis Metropolitan Golf Club, the Triple "A" Golf & Tennis Association and the YMCA.

He lives in Town and Country, Mo., with his wife, Sandra Lee Murdock. The Murdocks have two adult children.

## Record

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Washington

WASHINGTON UNIVERSITY IN ST. LOUIS



# Washington People

## Adventures at the bench suit Welgus

For Howard G. Welgus, M.D., laboratory research started out as a good way to spend the summer before beginning medical school at Washington University in the fall of 1973. But instead, a stint in the lab of Arthur Z. Eisen, M.D., the Winfred A. and Emma R. Showman Professor of Dermatology, fired up Welgus' long-term interest in pursuing adventures at the bench.

"I just loved it," Welgus said of the time he spent with Eisen working on collagenase, one of a family of enzymes called metalloproteinases that have been implicated in a host of diseases from skin ulcers to cancer and emphysema.

"You had a hypothesis, you would test it — and in a few days you would get some numbers and data that told you whether that was right or wrong."

Since then, 11 more metalloproteinases have been added to the original roster of three. And Welgus, a professor of medicine and head of the Division of Dermatology at the School of Medicine, has distinguished himself for groundbreaking work on these enzymes that chew up proteins in the extracellular matrix, a supportive network surrounding tissue cells.

"His research has been really significant in understanding where the metalloproteinases are expressed and how they participate in various diseases," said Jouni Uitto, M.D., Ph.D., chair of the dermatology and cutaneous biology department at Jefferson Medical College in Philadelphia.

In the disease state, the matrix-degrading metalloproteinases do their jobs too well. Among other crimes, they are thought to break down the cartilage in the joints of people with osteoarthritis, making it painful and difficult for them to use their hands or to walk. In cancer, tumor cells use the enzymes to tear down extracellular matrix that blocks their passage into the bloodstream and prevents the spread of cancer throughout the body. And in emphysema, metalloproteinase enzymes poke holes in the delicate lining of smokers' lungs while the body overdoes an effort to clean up tar inhaled in cigarette smoke.

Welgus, along with Robert M. Senior, M.D., the Dorothy R. and Hubert C. Moog Professor of Pulmonary Diseases in Medicine, and Steven D. Shapiro, M.D., associate professor of medicine and of cell biology and physiology, found that many of the cells causing lung damage in emphysema patients were macrophages, with metalloproteinases serving as their tar-cleaning agent of choice.

"It's the macrophages that are making the enzymes that destroy the lungs," Welgus said.

The researchers determined the link between lung macrophages and emphysema by collecting macrophages from the lungs of smokers. Collection involved washing the inside surface of a small portion of one lung with a saline solution and collecting the wash solution. Macrophage cells harvested from these washes were shown to produce high levels of metalloproteinases. Lung-tissue specimens taken from smokers also contained these cells producing the matrix-degrading enzymes.

### Work in progress

Welgus also helped draw attention to the role metalloproteinases play in everyday life as well as in disease. Although the human body may seem a finished work of art, it is more a work in progress, like a house whose frame, siding and even the furniture inside need regular repair.

Bones, for example, are said to be remodeled 10 times in the average person's lifetime. Epithelial cells lining the mouth and the gut can be remodeled every two days. And the outer layer of skin, the epidermis, needs replacement every month as it weathers the outside world and the human onslaught that comes with scratching at mosquito bites and bumping into table edges.

Wherever some refurbishing is needed, cells similar to the macrophages in the lungs produce matrix-degrading metalloproteinases. In bone, the enzymes slice up collagen within the extracellular matrix. The collagen fragments then serve as a signal that activates osteoclast cells to break down components of bone. And in the cell layers lining

the mouth, gut and skin, metalloproteinases are produced to facilitate the migration of cells that direct remodeling efforts.

"The major reason that we have these enzymes is for these normal kinds of remodeling processes," Welgus said.

Welgus and William C. Parks, Ph.D., associate professor of medicine and of cell biology and physiology, uncovered the more mundane function of metalloproteinases in skin when they began looking five years ago for sites in the body where these enzymes were especially active. They found metalloproteinases to be important for epithelial cells trying to take care of garden-variety cuts and scrapes. In particular, cells of

tive effort with Parks. Macrophages at the site of an atherosclerotic plaque release metalloproteinases in an attempt to degrade the plaque building up inside arteries that provide nourishment to the heart. Instead, the enzymes may loosen up the plaque, made of lipids and other components, leading to formation of a clot that stops blood flow to the heart.

In collaboration with Senior and Robert Mecham, Ph.D., the Alumni Endowed Professor of Cell Biology and Medicine, Welgus also has found that metalloproteinases degrade elastin, an important component of blood vessels and lungs. Welgus has also looked at the role of these enzymes in skin ulcers and a variety of other diseases.

In addition, Welgus treats dermatology patients and enjoys working to help them overcome complicated skin conditions. As director of the dermatology division, Welgus led an effort that has established Washington University as a premier site for research on metalloproteinases and on the extracellular matrix.

Eugene Bauer, M.D., dean of Stanford University School of Medicine and a former dermatology professor at Washington University, called Welgus and others at the medical school "world leaders in matrix-metalloproteinase and connective-tissue biology."

Welgus started a dermatology division for Jewish Hospital in 1985 as its sole researcher. By the time this division merged with the dermatology division at the medical school, he had helped bring four full-time faculty on board. Welgus became director of the overall division last year.

### Close collaboration

Welgus also has trained researchers such as Shapiro, who was a fellow in Welgus' lab in the late 1980s. Shapiro says he benefited greatly from Welgus' instruction and his emphasis on paying attention to every detail of a research project.

"He's got an amazing capacity to design the right experiments and to really get to the heart of the matter," being studied, Shapiro said.

In part, Welgus credits this ability to the basic skills he learned "while growing up" in Eisen's laboratory. Welgus said he has since benefited from the great rapport between researchers at Barnes-Jewish North, whose areas of interest overlap with his own. That rapport has allowed him to participate in long-standing collaborations with researchers such as Senior, and to expand the tools and ideas he uses to study metalloproteinases.

Welgus also has sought out similar collaborations elsewhere. In 1991, he took a six-month sabbatical in Geneva, where he worked in the laboratory of an immunologist and learned about cytokines and growth factors important to metalloproteinase-producing macrophages. Welgus' wife of 24 years, Sandy, and his son, David, now 15, and daughter, Ruthie, now 17, came along on this trip.

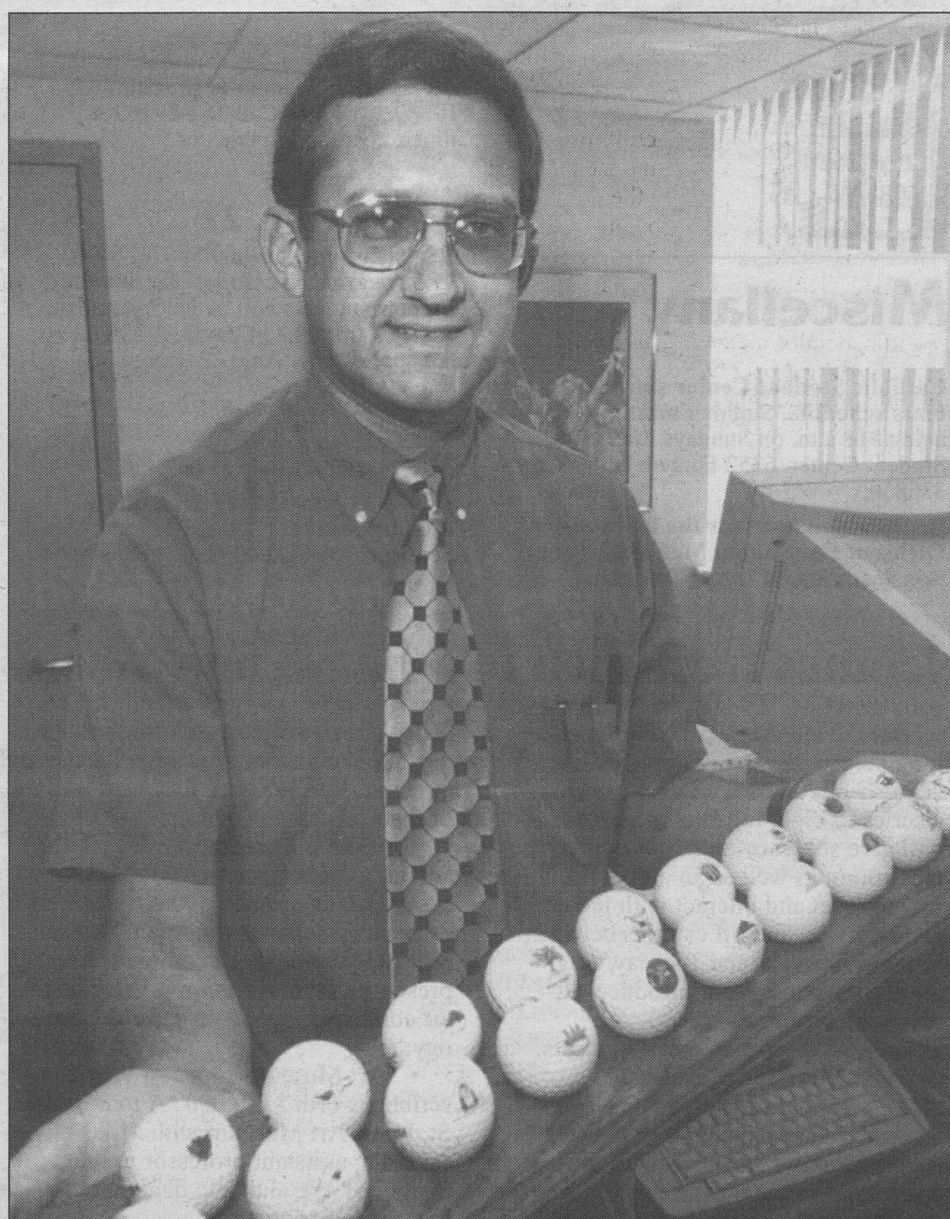
In his spare time, Welgus says he enjoys playing golf, although he has had little time to do so since becoming director of the medical school's dermatology division. He has passed on this passion to his son, who for several years played golf almost every weekend with his father.

Despite the lack of free time recently, Welgus said he has had an exciting life and career in the metalloproteinase field. As testament to the development of this area, he noted, pharmaceutical companies have begun taking a serious look at ways to use information about metalloproteinases and their inhibitors for developing drugs that will work against cancer and other diseases.

Welgus cautions that these companies need to keep in mind the delicate balance between matrix-degrading metalloproteinases and inhibitors such as TIMP-1 that work to keep the enzymes under tight rein and to control many normal physiologic functions. Yet along with the words of caution come words of excitement as well.

Back when he first stepped into a lab, Welgus said, "We never would have dreamed that any of this would have come to such fruition."

— Barbra Rodriguez



Howard G. Welgus, M.D., with part of his collection of golf paraphernalia. The sport is one of his passions, but his work leaves little time for play.

**"He's got an amazing capacity to design the right experiments and to really get to the heart of the matter."**

— Steven D. Shapiro

the epidermis, called keratinocytes, used collagenase to break down extracellular matrix so the keratinocytes could migrate across the skin surface and help in wound repair.

While in Eisen's laboratory, Welgus and George Stricklin, M.D., Ph.D., also discovered the first tissue-derived inhibitor that blocks the action of metalloproteinases. One of what is now known to be a family of tissue inhibitors of metalloproteinases, this TIMP-1 protein serves as the major metalloproteinase inhibitor produced by cells. The researchers purified TIMP-1 from the tissue culture medium of cells called fibroblasts, determined its chemical composition, and showed where the inhibitor acted in the body and how it worked.

Welgus also helped finger metalloproteinases as a possible culprit in heart attacks as part of a collabora-



# Calendar

Visit Washington University's on-line calendar at <http://cf6000.wustl.edu/calendar/events/v1.1>

**Aug. 21-30**



## Exhibitions

**"In the Beauty of Holiness."** The artistry of 650 years of prayer books and devotional literature in the Special Collections of the Washington University Libraries. Through Aug. 22. Special Collections, level five, Olin Library. Hours: 8:30 a.m. to 5 p.m. weekdays. 935-5495.



## Lectures

### Friday, Aug. 22

**9:15 a.m. Pediatric Grand Rounds.** "H.S.P. vs. IgA Nephropathy," Anne M. Beck, instructor, Division of Pediatric Nephrology and director, Dialysis Unit. Clopton Aud., 4950 Children's Place. 454-6006.



## Music

**8 p.m. Harpsichord recital. Program includes** the music of Jean-Philippe Rameau. Featuring Francoise Lengelle, Lyon Conservatory. Co-sponsored by St. Louis-Lyon Sister Cities Committee. Steinberg Aud. 935-4841.



## Miscellany

**Catholic Student Center summer mass schedule.** Summer masses will be held at 11 a.m. on Sundays. Catholic Student Center, 6352 Forsyth Blvd. 725-3358.

**Registration open for the following Office of Continuing Medical Education seminars.** "Current Topics in

Cardiothoracic Anesthesia: Perioperative Management" (Sept. 4-6); "Contemporary Cardiothoracic Surgery" (Sept. 18-20); and "New Techniques in Urinary Incontinence and Female Urology" (Oct. 18). Eric P. Newman Education Center. Call 362-6891 for times, costs and to register.

**Registration open for the AIDS Clinical Trials Unit symposium.** "HIV Disease in Women and Their Newborns: Treatment and Prevention Strategies" (Sept. 12). The Radisson Hotel, St. Louis Airport. For schedules, cost and credit info., call 362-2418.

**Registration open for Diagnostic Radiology three-day seminar.** "Practical Issues in Leading-edge Radiology II" (Oct. 17-19). Call 362-2916 for times, costs and to register.

### Friday, Aug. 22

**Registration deadline for University College evening courses.** Orientation for new students will be held Saturday, Aug. 23 from 9 a.m.-noon. A \$30 late fee applies after Aug. 22. Room 30 January Hall. 935-6777.

### Wednesday, Aug. 27

**5:30-6:30 p.m. University College evening course.** "College Success Seminar." Designed to help adult stu-

dents gain skills for greater success in college-level courses. Wednesdays through Dec. 10. Cost: \$215. For more info. and to register, call 935-6777.



## Vienna Fest 1997

### "Dream City: Viennese Medicine as a Benchmark for St. Louis Physicians."

Exhibit of photographs, rare books and documents on the scientific developments of late 19th-century Vienna. Drawn from the School of Medicine's collections and archives. Through Aug. 29. Glaser Gallery, seventh floor, The Bernard Becker Medical Library. 362-7080.

## Calendar guidelines

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

Calendar submissions should state time, date, place, sponsor(s), title of event, name(s) of speaker(s) and affiliation(s), and admission cost. Quality promotional photographs with descriptions are welcome. Send items to Judy Ruhland at Campus Box 1070 or via fax to (314) 935-4259. Submission forms are available by calling (314) 935-4926.

The deadline for all entries is noon Tuesday one week prior to publication. Late entries will not be printed. The Record is printed every Thursday during the school year, except holidays, and monthly during the summer. If you are uncertain about a deadline or holiday schedule or need more information, call (314) 935-4926.

## Orientation 1997 welcomes freshmen to a brave new world

The Class of 2001 will soon be arriving, and its future is looking bright.

Awaiting the incoming freshmen is a host of activities and events designed to introduce both students and their parents to all that Washington University has to offer — from academics to facilities to student life.

Orientation 1997 will kick into gear Thursday, Aug. 21, when the new students gather for their first residence hall floor meetings, from 6:30 to 8 p.m. Shortly afterward, the Class of 2001 will attend its first official assembly, converging in the Athletic Complex for Chancellor Mark S. Wrighton's "Chancellor's Welcome" from 8:30 to 9:30 p.m.

From there, the week-long program goes on to include a wide variety of events, activities and programs, all with the aim of helping students settle in and feel at home before the onset of classes, which begin Wednesday, Aug. 27.

But the learning will commence long before the first roster is called. "Cityscapes and Faculty Perspectives," a series of eight informal seminars, will give students their first taste of the classroom, as well as an early opportunity to meet and interact with faculty. Held both on and off campus between Sunday, Aug. 24, and Tuesday, Aug. 26, the programs will introduce students to a few of their new community's more interesting facets. Among the offerings are:

- "Washington University: The Historical Perspective" — Architectural historian Esley Hamilton will conduct a walking tour of the Hilltop Campus, highlighting the 20 campus buildings listed on the National Registry of Historic Places;

- "Improvisational Comedy" — Keith Sawyer, Ph.D., assistant professor of education in Arts and Sciences, teams up with Washington University's

own Mama's Potroast to introduce students to the history of improv theater and to lead them through a few improv skits of their own;

- "Speech Recognition: It's Hard To Wreck A Nice Beach — (Oops. That should be 'It's Hard To Recognize Speech.')" Sally A. Goldman, Ph.D., associate professor of computer science, presents a demonstration of state-of-the-art computer speech-recognition technology; and

- "Art Museum Tour" — Why is a scribble worth \$150,000? A tour of the St. Louis Art Museum with Mike Javernic, assistant professor in the School of Art, and help decipher what all the scribble is about.

Students also will be able to meet with faculty during 29 departmental open houses to be held around campus from 1 to 3 p.m. on Friday, Aug. 22. These informal gatherings will give the new arrivals a chance to learn more about the curriculum and the services that each program has to offer.

With the weekend comes an introduction to campus social life. On Saturday, Aug. 23, students get their first taste of a Washington University tradition when "Bears, BBQ and Fun" kicks off at the Athletic Complex. The annual mix, which runs from 4:30 to 6:30 p.m., will feature an intrasquad football scrimmage, a barbecue dinner and halftime entertainment.

Later that evening, laughter and dance — a well-acquainted couple — will help to introduce a few of the social spots around Mallinckrodt Center during this year's "Hilltop Happenings," which kicks up its heels at 9 p.m. Events include square dancing in Bowles Plaza, ballroom dancing in the Food Court, contemporary dancing at The Gargoyle, and a Comedy Movie Marathon in the Third Floor AV Room.

Also scheduled throughout the week is a variety of events tailored to the needs of transfer, commuter and international students.

For more information on Orientation 1997, call (314) 935-6679 or visit the Orientation home page at [rescomp.wustl.edu/Orientation](http://rescomp.wustl.edu/Orientation).

—Liam Otten

## Preorientation offers chance to learn, grow

In addition to freshman Orientation events, this year's calendar also features a series of preorientation activities. Scheduled between Monday, Aug. 18, and Thursday, Aug. 21, the seven programs provide students with additional opportunities to learn about Washington University, its people, its surroundings — and, ideally, themselves.

"The focus is on small-group interaction," said Marcia Hayes-Harris, director of Orientation.

Joining the "Launch" and "Leadership Through Service" programs, which were initiated last fall, are five new offerings:

- "Student Life Freshman Press" — Working with local media professionals, students will undergo a three-day crash-course in journalism, during which they will prepare a special edition of Student Life for the incoming class;

- "Meramec River Tour" — Bob E. Criss, Ph.D., professor of earth and planetary sciences in Arts and Sci-

ences, leads a canoe trip down the Meramec River, which boasts some of the most pristine and biologically diverse watersheds in the world;

- "Genesis" — Sponsored by the Catholic Student Center and the St. Louis Hillel Center, students can take an overnight retreat to the Missouri countryside, where they explore issues of identity, relationships, faith and community;

- "The First Year Challenge" — Sponsored by the Orientation office, participants spend an entire day outside taking part in games, initiatives and activities created to promote working together toward a common goal; and

- "St. Louis Backstage" — Jeffery Matthews and Bill Whitaker, both artists in residence in drama in the Performing Arts Department in Arts and Sciences, lead tours of the St. Louis theater scene — including stops at the Muny, the Repertory Theatre of St. Louis and Washington University's Edison Theatre.

—Liam Otten

## Tyson center field trips help teachers design curricula

Eight St. Louis public school teachers attended a workshop at Washington University's Tyson Research Center, June 23-26. The workshop was sponsored by the Tyson Field Science Program and the School Partnership Program of the St. Louis School District. The School Partnership Program funded the workshop through a grant from the National Science Foundation's Urban Systemic Initiative (NSF/USI), one of several NSF programs designed to improve learning in math, science and technology, specifically in urban communities.

The purpose of the workshop was to help teachers become familiar with the science curricula and current assessment methods. Teachers worked in teams, connecting the content of the Tyson Field Science trip topics with science curricula for kindergarten through grade 12 and suggesting appropriate assessment strategies for each topic.

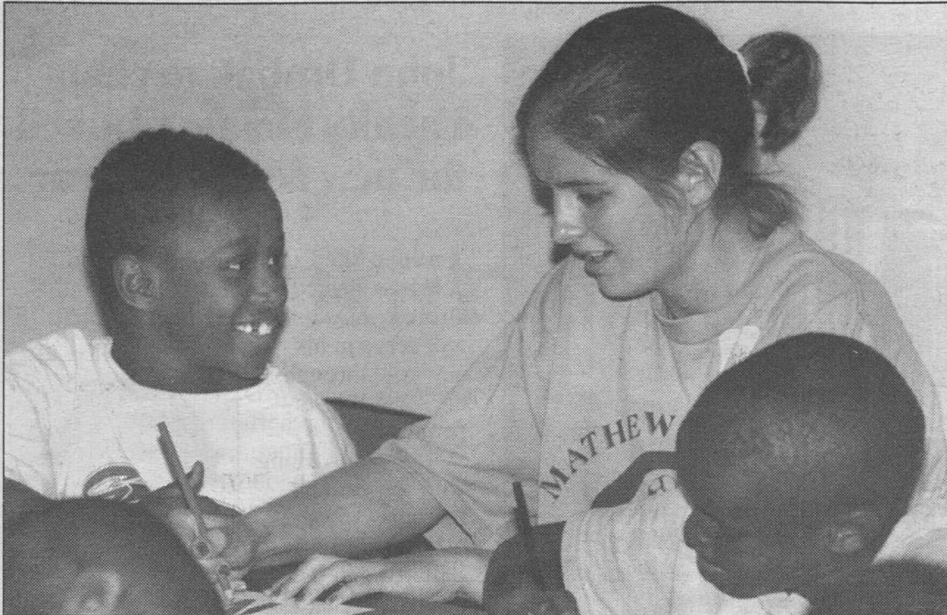
Janice Starke, director of the Tyson Field Science Program, coordinated the workshop.

Among those in attendance were Phyllis Balcerzak, clinical associate in education at Washington University, and Wayne Walker, Vivian Gibson and Rhonda Richmond of the School Partnership Program.

In the middle of the school year, Starke will meet with the participating teachers again to discuss the effectiveness of the assessment strategies.

Thanks to the NSF/USI grant to the School Partnership Program, the Tyson Research Center will be offering more field trips than usual to St. Louis students.





Summer campers Mussie Gebregziabher (left) and Odell Johnson, at the Caroline Mission of St. Louis, are happy to have Days of Caring program volunteer Sarah Oppland, summer worker in the School of Engineering and Applied Science, as a drawing buddy. Sarah and her father, Steve, assistant accountant in engineering, were among those who volunteered through the program to work at a United Way-supported agency.

## Volunteering builds morale, teamwork — from page 1

"The connection with the kids was pretty powerful," she said. "It took me back to third grade, and I was nervous that I wouldn't remember how to play four-square ball," she added, "but it all came back, and it was so much fun that I've volunteered for their after-school program in the fall."

Helping people see the year-round need and encouraging them to volunteer for other ongoing projects is one of the goals of Days of Caring, said Melinda McAliney, director of the Volunteer Center of the United Way of Greater St. Louis.

"This year, we've changed Days of Caring to a year-round event, so that companies and individuals can pick projects that last a week or up to a year."

There have been 320 volunteers involved this year to date, and many large organizations have projects upcoming. For example, BJC Health System has about 400 volunteers signed up for 15 projects during the last two weeks of August.

"More and more companies are seeing the value of having employees participate," said McAliney. "They see that volunteering often improves morale and teamwork, and more are allowing employees paid time off to volunteer during working hours."

The University has supported Days of Caring since it began locally in 1994. This year's number of employee

volunteers is the University's highest ever.

"Supporting employees' volunteer efforts is an important part of the University's work to contribute to the St. Louis community," said John R. Loya, vice chancellor for human resources. "Days of Caring gives employees an opportunity to interact with individuals who benefit from United Way contributions and to see how their own contributions help throughout the community."

Some volunteers have known the benefits first-hand. Gloria Lucy, business manager at the Center for the Study of American Business (CSAB), and her sister Pamela Cutter, mail coordinator, CSAB, worked at the Alzheimer's Association, an organization they knew well because their mother died of Alzheimer's disease.

"It was a blessing that we wound up volunteering in a place with special meaning [for us]," Lucy said. "I hope I get to work there again next year."

Outside of the Days of Caring program, diverse volunteer opportunities are available throughout the year — from yard work and painting to office work and activities with children, adults and the elderly. To volunteer, call the United Way Volunteer Center at (314) 539-4063.

— Nancy Belt

## Area teachers become students at hands-on outreach program

Eighteen high school biology teachers met the first two weeks of August in Rebstock Hall to ready themselves for a new challenge in science teaching.

The teachers came to learn novel hands-on methods to teach genetics to ninth and tenth graders. The collection of experiments, activities and lessons has been developed and fostered by Cynthia Moore, Ph.D., Outreach coordinator and biology lecturer in Arts and Sciences; Victoria May, Outreach liaison; and Sarah C.R. Elgin, Ph.D., professor of biology.

The supplementary curriculum, "Modern Genetics for All Students," has been made possible by grants from the National Institutes of Health (NIH) Science Education Partnership Award (SEPA) and the Howard Hughes Medical Institute (HHMI), which have supported a number of Washington University outreach efforts throughout the decade.

The concept of the genetics curriculum was first discussed in 1989 when Elgin sought to harness the brain power of her Washington University colleagues to help teachers better reach children about the wonders of DNA and the social implications of genetic research and policies. The setting was University City, where Elgin lives and her children are enrolled in the public schools.

The genetics curriculum developed from a program Elgin helped start called the Washington University/University City Science Education Partnership. A parallel goal was the attempt to update teachers on genetics advances, which then, as now, were happening at a fast rate. The "new biology," with emphases on molecular biology, genetic engineering and new techniques, was a mystery to many teachers as well because it was so far removed from the kind of biology the teachers themselves had studied as undergraduates.

From the original involvement of teachers and students in the University City school district, additional regional St. Louis high school districts joined the project last year, and three more will join for the coming year, encompassing thousands of students in inner city, suburban and rural high schools. The curriculum has been used with great success in University City, Webster Groves, Jennings and Washington school districts during the past two years.

Of the 18 teachers who attended the August workshop this summer, some are genetics curriculum novices and represent Sumner, Parkway Central and Pacific high schools. The new teachers also were joined by some teachers from the other districts who have taught the curriculum before.

One of the goals of the curriculum is to mold future citizens who will have a sound grasp of bioethical issues.

"Genetics is a cornerstone for understanding science in a social context," said Elgin. "The curriculum is designed to make the transition of thinking about genetics as it applies to yeast and fruit flies to thinking of genetics and how it applies to humans. We think that students will become more aware of emerging issues such as genetic privacy. They'll know about DNA because they'll have actually modeled it. The curriculum helps raise student awareness of the role of science in their everyday lives."

Another goal is to maintain a strong communal link between University scientists and secondary science school teachers through sharing expertise and encouraging communication among secondary education teachers themselves and University professors.

"Teachers don't get enough opportunity to talk to other teachers," Elgin pointed out. "A full day of teaching science to five classes of students leaves little time to exchange ideas and learn from your fellow professionals. The two weeks of workshop provides an opportu-

nity to learn from other teachers, to talk things out. Teachers who participate also meet regularly with each other and Vicki and Cynthia throughout the school year to implement and evaluate the curriculum."

Yet another important goal is to make sure that schools receive supplies — from sea urchins to bacteria to agarose gel — that are essential to the success of the experiments and activities. Funding from NIH and HHMI makes this possible. The agents sub-contract with the Mathematics and Science Education Center of the Cooperating School Districts of St. Louis for supplies, and May oversees the logistics of the supply train.

The curriculum lasts between nine to 12 weeks and can be tailored to meet both students' differing abilities and their different learning paces. The unit is broken down into four chapters: DNA, Inheritance, Molecular Biology and Biotechnology, and Human Impacts in Bioethics.

Elgin emphasized that it is not meant to replace a district's existing genetics curriculum but rather to enhance it.

"What we have tried to do is find a collection of models, experiences and

activities that will work with almost any genetics curriculum but will make the existing curriculum a much richer one, accessible to a broad range of students," she said. "We're trying to make a

**"Genetics is a cornerstone for understanding science in a social context."**

— Sarah C.R. Elgin

very rich learning experience. We try to present basic concepts so that they are widely accessible, and we also make sure that those who want to explore further can readily do so."

And just how hands-on is the genetics curriculum?

"Science is messy, noisy and collaborative," said Moore, who also taught a week-long workshop to middle school teachers this summer on investigative methods of studying the digestive system.

"The curriculum is designed to have teachers doing intense activities three or four days a week, and this isn't the norm in most high schools. This is where implementation support is so valuable to the program and also where the importance of the workshop comes in. This allows teachers the opportunity to try out new activities and ideas in a supportive environment."

Moore said that over the past two years, teachers have had students perform experiments where they shine ultraviolet light on bacteria and observe genetic mutations; build models of DNA molecules; do a genetic profile of a hypothetical family to screen for genetic mutations causing Duchenne muscular dystrophy; study inheritance by creating imaginary families of marshmallow creatures called "Reebops," which show how genes are passed through generations; and genetically engineer bacteria to glow in the dark with an inserted bioluminescence gene.

While the curriculum presents challenging concepts, evaluations from students themselves indicate it has been an overwhelming success across the board.

"Our student evaluations over the past two years show great results from students at all levels, which is really encouraging — it shows that the program is not reaching just the college-bound students," Moore said. "The students say they've become more comfortable with genetics, and they're more inclined to read about it in the newspaper or watch a TV program like NOVA knowledgeably. When students rate the different activities, they always point out the hands-on ones as being their favorites."

The program has been so well received that there are plans to expand it beyond St. Louis.

"We see the program as an area project that can be duplicated just about any place that a university exists and faculty are willing to cooperate with secondary schools," Elgin said. "So, we'd like to see the concept spread. But in the short term, we'd like to bring more St. Louis area schools into our project."

— Tony Fitzpatrick

## Campus Watch

The following incidents were reported to the University Police Department from July 14–Aug. 17. Readers with information that could assist the investigation of these incidents are urged to call (314) 935-5555. This release is provided as a public service to promote safety-awareness on campus.

### July 15

2:30 p.m. — A student reported that a checkbook and several blank checks were stolen from a fraternity house. The bank account numbers were subsequently used in procuring additional checks, and several thousand dollars worth of purchases were made.

### July 19

10:49 a.m. — A student reported that a wallet containing \$30 and credit cards was stolen from an unlocked room in Eliot Residence Hall.

### July 21

2:01 p.m. — A staff member reported that petty cash was stolen from a locked desk in a locked office in the psychology building.

### July 29

1:11 p.m. — A beverage company driver reported that a money bag was stolen from the front seat of an unattended truck at the loading dock of Mallinckrodt Center.

### Aug. 6

5:34 p.m. — A student reported that a laptop computer was stolen from the common area of a suite in Wydown Residence Hall.

### Aug. 11

11:21 p.m. — Two students reported that a Compaq computer, monitor and printer and a laptop computer were stolen from the basement storage area of a fraternity house.

### Aug. 12

10:55 a.m. — A graduate student reported that a gym bag containing various personal workout items was stolen from an office in Eliot Hall. The student later saw the gym bag in a University-owned vehicle parked near the building. The bag was retrieved and a staff member was arrested for the theft. The incident will be referred to the St. Louis County prosecuting attorney's office.

### Aug. 13

5 p.m. — A United Parcel Service truck caused minor damage to the North Brookings Rose Garden as the driver attempted to navigate the turn through the construction area.

### Aug. 16

6:56 a.m. — A student reported that an improperly locked bicycle was stolen from a rack on the north side of Liggett Residence Hall. Only the front tire of the bike was secured to the rack, allowing the rest of the bike to be taken by loosening the quick release on the wheel.

University Police also responded to nine reports of vandalism; one report of bogus check writing; one report of ethnic intimidation; one report of a suspicious person; two reports of trespassing; one report of attempted stealing; four reports of theft; and one report of burglary and stealing.





Holmes Lounge circa 1910 when it served as the main reading room for what was then Ridgley Library.

## Ridgley, Holmes were used during the 1904 World's Fair — from page 1

complemented by the addition of a food service area and larger restrooms on the first floor of Ridgley. Holmes also will be accessible from adjacent Eads Hall through two new doorways that were created on either side of the room's carved-wood fireplace.

"Holmes Lounge has a long and very rich history at the University," Roloff said. And when years of heavy use left Holmes in need of improvement, the

room's historic value made renovation attractive.

The cornerstone for Ridgley Hall was laid on Aug. 30, 1902. The building was constructed for \$250,000 by the Louisiana Purchase Exposition Co. and used for the 1904 World's Fair. During the fair, it was known as the Hall of International Congress. The University occupied the building in 1905 and created the campus library.

Holmes served as Ridgley Library's main reading room until 1963, when Olin Library was built. Since then, Holmes has been a gathering place for students, faculty and staff. With its renovation complete, Holmes again will be a central meeting place on the Hilltop Campus.

"When it is done," Roloff said, "I think it is going to be a very, very busy facility." — Martha Everett

## John Drobak to chair Faculty Senate Council for new academic year

In June, the Faculty Senate Council (FSC) elected as council chair John N. Drobak, J.D., professor of law. Drobak will serve in his new role through the 1997-98 academic year.

The chair, along with the council secretary, are the two faculty representatives to the Board of Trustees.

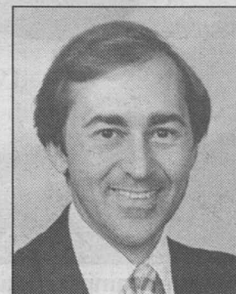
Joseph A. O'Sullivan, Ph.D., associate professor in electrical engineering, remains the council secretary, a three-year term to which he was elected in 1995.

The council chair also serves as the faculty representative to the University Council and sets the agenda for the FSC.

Drobak succeeds Gustav Schonfeld, M.D., the Adolphus Busch Professor and chair of the Department of Medicine, who held the position for two years.

This is Drobak's second term on the Faculty Senate Council and second term as council chair. He served on the council from 1990-93 and was chair during the 1992-93 academic year.

For information on recent council actions, including the report of the Committee on Faculty Renewal and the Consequences of Uncapped Retirement, visit the council's new Web page at [www.wustl.edu/senate-council/](http://www.wustl.edu/senate-council/).



John N. Drobak

## Business Week survey ranks computer science department near the top in best labs

Washington University's Department of Computer Science in the School of Engineering and Applied Science was ranked 10th in the world among all university and industry research laboratories in telecommunications, networking and groupware in an informal survey conducted by Business Week magazine.

The department was tied for fourth place among universities in the same category, along with Cambridge University, Columbia University and the University of California-Berkeley. Industry laboratories in the top 10 include Bell Labs (Lucent), AT&T Labs, IBM Research, Xerox PARC, Bellcore and BBN.

Results were published in the June 23 issue of Business Week.

"It is indeed a marvelous achievement for Washington University to be considered in this high tier of computing prowess, and it speaks wonderfully of the work performed by Jon Turner and others in computer science, especially over the past eight years or so," said Christopher I. Byrnes, Ph.D., dean of the engineering school.

"We've attracted a first-rate group of faculty, research staff and students in networking over the last decade," said Jonathan S. Turner, Ph.D., the Henry Edwin Sever Professor of Engineering and computer science department chair. "It's gratifying that these developments are now being recognized by others outside our specialty. My colleagues, Guru Parulkar, Jerry Cox, George Varghese, Paul Min and Doug Schmidt,

all deserve a great deal of credit for this."

The survey was done on-line by researchers themselves, and it asked of the participants how the laboratories ranked today compared with 1978, when the personal computer industry was just beginning. There were four broad areas of information technology research that were surveyed: computer science; telecommunications, networking and groupware; artificial intelligence, robotics, natural language, interfaces and data mining; and biologically inspired artificial life, complexity theory, genetic algorithms and evolutionary programming.

Washington University was not mentioned as a high-ranking institution in any of the categories in 1978.

Washington University's research in telecommunications, high-speed fiber

optic switching systems and networking has been cited often by the information technology media in recent years. A number of projects with industry and government has led to advancements in these areas and high visibility in the networking and telecommunications fields.

As an indication of national interest in the University's research, the National Science Foundation recently awarded Washington University a three-year, \$3 million grant to distribute its asynchronous transfer mode (ATM) technology to academic networking research groups nationwide.

The Business Week survey can be found on the Web at [www.businessweek.com/1997/25/b353224.htm](http://www.businessweek.com/1997/25/b353224.htm).

— Tony Fitzpatrick

## Fulbright Scholarships awarded to four students

One Washington University graduate student and three recent graduates will travel abroad as 1997-98 Fulbright Scholarship recipients, according to Priscilla Stone, Ph.D., coordinator of the Office of International Studies in Arts and Sciences.

Fulbright Scholarships pay travel expenses and a stipend to approximately 1,800 college students and faculty each year, allowing them to spend an academic year studying, lecturing or student teaching, or conducting research in another country.

The three May 1997 graduates, all of whom studied in the College of Arts and Sciences, are: Maria Schlafly, who will be a teaching assistant in Germany; Noa Tal, who will serve as a teaching assistant in France; and Wendy Wang, who will be a teaching assistant in Korea.

Lisa Larence, a graduate student in the George Warren Brown School of Social Work, will work in Bangladesh. Her project will involve a study of the Grameen Bank, a world-renowned microlending institution that could serve as a model for community development elsewhere.

In addition, May 1997 graduates Kari Braun, who studied in the College of Arts and Sciences, and Robert Dunakin, who attended the John M. Olin School of Business, were named alternate candidates for the Fulbright Scholarship, as was College of Arts and Sciences graduate student Stephen Carey.

Another student with Washington University ties — Gregory Vargo, who holds a master of fine arts degree — will be a teaching assistant in Germany.

Earlier this spring, Denise Ward-Brown, associate professor of sculpture in the School of Art, was named as a faculty Fulbright Scholar. Brown will spend nine months in Ghana from August to April researching the structural and surface pattern in traditional Ghanaian architecture. She will be hosted by the University of Science of Technology in Kumasi, the center of the Asante kingdom.

For more information on opportunities for international funding, call Stone at (314) 935-5958. The deadline for Fulbright applications for faculty is August 1 every year. The deadline for students is Sept. 19, 1997.

## Sixteen freshmen will enter as Ervin Scholars

Sixteen freshmen have entered the University as John B. Ervin Scholars. The scholarship program, started at Washington University in 1987, recognizes the educational and leadership achievements of African-American students. Named in honor of John B. Ervin, a nationally renowned educator, the program provides exceptional educational opportunities and helps prepare participants to be future leaders.

"These students exemplify Ervin's leadership in his community, his recognition of education as a worthwhile undertaking and his lifelong commitment to the achievement of excellence," said James E. McLeod, chair of the Ervin Scholars Program Committee.

Most Ervin Scholars receive full tuition for four years of undergraduate study and an annual stipend of \$2,500. The scholarship is renewed for each of the remaining three years provided the student maintains a satisfactory academic record. In addition to the financial award, recipients participate in an ongoing series of programs.

Ervin was dean of the School of Continuing Education at the University from 1968 to 1977. In 1976, President Gerald R. Ford appointed Ervin to the

national Advisory Council on Extension and Continuing Education. He served on the council for seven years and was council chair from 1978-79.

This year's recipients, who were chosen on the basis of their academic accomplishments and contributions to school and community, are:

Christopher Alexander (School of Engineering and Applied Science)  
Terri N. Baker (engineering)  
Tiffanie Baker (College of Arts and Sciences)  
Hubert Browne (engineering)  
Shola Cole (Arts and Sciences)  
Corey S. Harris (engineering)  
Bengaly S. Kaba (Arts and Sciences)  
Jason C. Marsili (John M. Olin School of Business)  
Keri A. McWilliams (School of Art)  
Kenneth E. Mitchell (Arts and Sciences)  
N'Jai-An E. Patters  
Michelle A. Purdy (Arts and Sciences)  
Solana C. Rice (School of Architecture)  
Willayna K. Roberts (business)  
Tesa R. Sexton-Steel (Arts and Sciences)  
Richard M. Souvenir (engineering)



# Obituaries

## Julio V. Santiago, renowned diabetes researcher

Julio V. Santiago, M.D., an internationally renowned diabetes researcher, died suddenly of a suspected heart attack on Aug. 10, 1997, on a flight to Germany. He was 55.

Santiago was a professor of pediatrics and of medicine and director of the Division of Pediatric Endocrinology and Metabolism at the School of Medicine. A staff physician at Barnes-Jewish and St. Louis Children's hospitals, he also was director of the School of Medicine's Diabetes Research and Training Center, one of only six in the nation.

At the time of his death, Santiago was involved in the Diabetes Prevention Program, the largest national diabetes study to evaluate whether medication or lifestyle changes can prevent or delay adult-onset diabetes.

Previously, Santiago was the principal investigator of the St. Louis portion of the national Diabetes Control and Complications Trial (DCCT), considered one of the most important studies conducted in diabetes research. In 1993, DCCT researchers concluded that strictly controlling blood sugars can prevent or delay the ravaging complications of the disease.

Santiago also was a leader in the development and testing of miniaturized portable insulin infusion pumps, devices for self-monitoring of blood glucose, as well as other advances in diabetes care.

"Julio will be remembered by his friends and family as a dedicated, caring physician and devoted husband and father," said his colleague and collaborator,

Neil H. White, M.D., associate professor of pediatrics. "He was an outstanding teacher and mentor and role model for all who knew him."

Another colleague, Sherida E. Tollefsen, M.D., associate professor of pediatrics, said, "His life was exemplified by his boundless enthusiasm, warmth and generosity; his avid interest in sports and the outdoors; and his tireless efforts to help others."

A native of San German, Puerto Rico, Santiago earned a bachelor's degree in science in 1963 from Manhattan College in New York. He received a medical degree in 1967 from the University of Puerto Rico, graduating first in his class. After completing a residency in medicine and a fellowship in metabolism and endocrinology at Washington University, he joined the faculty in 1975 as an assistant professor of pediatrics and of medicine.

David M. Kipnis, M.D., the Distinguished University Professor of Medicine and professor of molecular biology and pharmacology, met Santiago more than 30 years ago at the University of Puerto Rico. He then recruited Santiago to Washington University for his training. "Julio always went out of his way to help people — house officers, junior faculty and students — in career development," Kipnis said. "He also was very effective in getting different groups within the medical school to work together in a cohesive and productive manner. This took terrific energies and a deep sense of commitment to the institution."

He is survived by his wife of 35 years, Ana Santiago; four children, Teresa Turner, Julio Santiago, Vincent Santiago and Daniel Santiago, all of St. Louis; and one granddaughter.

Funeral services were held Aug. 16.

## Gray L. Dorsey, emeritus law professor

Gray L. Dorsey, J.S.D., J.D., the Charles F. Nagel Professor Emeritus of International and Comparative Law, died of a heart ailment July 20, 1997, at his home in Chesterfield, Mo. He was 79.

Dorsey served on the School of Law faculty from 1951 to 1988. He was elected president of the International Association for Philosophy of Law and Social Philosophy, and was the first American professor to teach in Taiwan following the Communist takeover of the mainland.

"Gray Dorsey was an imaginative and creative scholar who had a profound love for teaching," said Dorsey D. Ellis Jr., J.D., dean of the law school. "He engendered affection as well as respect from his students. Although he formally retired in 1988 at the age of 70, he remained active in the life of the law school and continued to pursue his scholarship on jurisprudence, authoring four books on the subject since retiring."

Dorsey's colleague, William C. Jones, also the Charles F. Nagel Professor Emeritus of International and Comparative Law, said: "Gray was protean. He handled everything from being an engineering officer on a ship to arguing cases before the Supreme Court to holding an international conference on law and philosophy, with success and aplomb. But his passion

throughout his career was to discover the basis for establishing world peace."

Dorsey received a bachelor's degree in journalism in 1941 from the University of



Gray L. Dorsey

Kansas. He received a law degree in 1948 and an advanced degree in law in 1950, both from Yale University. From 1942-46, he served in the Coast Guard and was in the Army Reserves in the 1950s and 1960s.

A private funeral was held at Hoffmeister-Kreigshauser West County Funeral Home in Ellisville, Mo., followed by a private burial. A memorial service will be held in the Bryan Cave Moot Court Room at the School of Law at 4 p.m. Tuesday, Aug. 26.

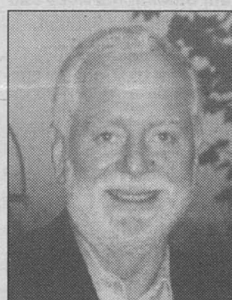
His survivors include his wife, Jeanne Dorsey; a daughter, Deborah Norberg of San Jose, Calif.; two brothers; two sisters; and two grandchildren.

Memorial contributions may be made to the Gray L. Dorsey Scholarship Fund, Campus Box 1120, Washington University School of Law, One Brookings Drive, St. Louis, MO, 63130.

## Owen S. Kantor, rheumatology professor

Owen S. Kantor, M.D., a rheumatologist and an associate professor of medicine at the School of Medicine, died of cancer July 27, 1997, at Barnes-Jewish Hospital in St. Louis. He was 54.

Kantor was in private practice at Barnes Hospital for 23 years. More recently, he joined the staff of Barnes-Jewish West County Hospital in Creve Coeur. From 1973 to 1995, he also ran the Arthritis Clinic at the Shriner's Hospital for Children in Frontenac.



Owen S. Kantor

A St. Louis native, Kantor earned undergraduate and medical degrees from the University of Missouri at Columbia, completing his doctorate in 1968. He became an associate professor at Washington University in 1981 and was active in the St. Louis Rheumatism Society, the Lupus Foundation and several medical committees.

John P. Atkinson, M.D., professor of medicine and of molecular microbiology in the Division of Rheumatology at the

medical school, said Kantor's opinion was highly valued by fellow rheumatologists.

"Owen was a very knowledgeable and experienced clinician who willingly shared his expertise with students, fellows and colleagues," Atkinson said. "He was an outstanding teacher."

Kantor was an avid tennis player at the Triple "A" Golf & Tennis Club in Forest Park and was a classic car collector.

Funeral services were held July 30 in St. Louis at Berger Memorial Chapel. Burial was at Beth Hamedrosh Hagodol Cemetery in Ladue.

Among the survivors are his wife, Ann Kantor; two daughters, Nicole Kantor and Jacqueline Kantor, both of west St. Louis County; his parents, Solomon and Cecile Kantor of Ballwin, Mo.; and a sister.

Memorial contributions may be made to the Owen S. Kantor, M.D., Lectureship Fund, Barnes-Jewish West County Hospital, 12634 Olive Blvd., St. Louis, MO, 63141; or to the Nursing Education Fund (11400 Nursing Station), Barnes-Jewish Hospital Foundation, 216 So. Kingshighway, St. Louis, MO, 63110; or to the Central Reform Congregation Building Fund, 77 Maryland Plaza, St. Louis, MO, 63108.

## Hiram H. Lesar, former law school dean

Hiram H. Lesar, former dean of the School of Law, died of cancer Aug. 4, 1997, at Memorial Hospital in Carbondale, Ill. He was 85.

Lesar served as dean of the law school for 12 years, from 1960 to 1972, the longest tenure of any dean in the school's 130-year history. His leadership began in January Hall and continued through the construction of Mudd Hall.

"Hiram Lesar led the school through a period in which the student body more than doubled, and a new building — Seeley G. Mudd Hall — was conceived, designed, funded and constructed," said Dorsey D. Ellis Jr., J.D., dean of the law school. "He then applied his leadership skills to become the founding dean of the law school at Southern Illinois University at Carbondale."

Lesar served as dean at SIUC from 1972 to 1980. He was an interim president of SIUC in 1974 and again from 1980-82. He was a professor at the SIUC law school at the time of his death. Lesar also taught at the University of Kansas, the University of Missouri at Columbia, and the University of Illinois.

He served on many boards, including the legal aid societies of St. Louis city and county; the Human Relations Commission of University City; and the Land

of Lincoln Legal Aid Society. He wrote numerous articles on property law and landlord-tenant issues. In the mid-1980s, he was named a laureate by the Lincoln Academy of Illinois.

Lesar was born and raised in Thebes, Ill. He earned bachelor's and master's degrees



Hiram H. Lesar

from the University of Illinois at Champaign-Urbana and a doctorate in law from Yale Law School. He served as a lieutenant commander in the U.S. Navy in World War II.

A private funeral service was held with burial at Oakland Cemetery in Carbondale. A memorial service will be held at 2 p.m. Sunday, Aug. 24, at SIUC.

Among his survivors are his wife, Barbara Lesar of Carbondale; three sons, James Hiram Lesar of Chevy Chase, Md., Albert Keith Lesar of Aptos, Calif., and Byron Lee Lesar of Carbondale; two stepdaughters, Laurel Thomas of Knoxville, Tenn., and Rebecca Galambos of Philadelphia; a stepson, Richard Thomas of Swarthmore, Pa.; a brother; three grandchildren; and eight step-grandchildren.

# For The Record

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

## Of note

The Gallery of Art was awarded first prize by the American Association of Museums for its catalogue accompanying Catherine Wagner's exhibition "Art and Science: Investigating Matter," which displayed last year. Entries were received from museums and institutions of all disciplines from across North America. The catalogue includes essays by **Joseph D. Ketner**, director of the Gallery of Art; **Cornelia Homburg**, Ph.D., former curator of the Gallery of Art; and **William H. Gass**, Ph.D., the David May Distinguished University Professor in the Humanities in Arts and Sciences. ...

**Barna A. Szabo**, Ph.D., the Albert P. and Blanche Y. Greensfelder Professor of Mechanics, has been honored with membership in the Hungarian Academy of Sciences. As part of the induction ceremonies, Szabo presented a lecture on "The Problem of Reliability of Mathematical Models in Engineering Practice" at a formal Academy meeting last spring in Hungary. Szabo's emphasis is in the area of numeral mechanics, the mechanics of solid bodies and the finite element method. He has made several important contributions in finite analysis, a computerized process of subdividing an object into a mesh of elements and computing the stresses and deformations they undergo.

## On assignment

**Robert P. Morgan**, Ph.D., the Elvera and William Stuckenberg Professor of Technology and Human Affairs in the School of Engineering and Applied Science, has been elected to the board of directors of Sigma Xi, the scientific research society. With a membership of nearly 90,000 scientists and engineers, Sigma Xi is one of the largest research societies in the

world. Morgan, who also directs the University's Center for Technology Assessment and Policy, will chair Sigma Xi's Committee on Programs that oversees and shapes many of the society's new program initiatives in ethics, science education, science policy and other areas.

## Speaking of

**Shirley K. Baker**, vice chancellor for information technology and dean of University libraries, gave the keynote speech, "Managing Technology; Managing Technologists," at the Texas Conference on Library Automation held last spring in Houston. Baker also spoke in June at the Canadian Library Association Conference in Ottawa on "Issues in Transborder Resource Sharing."

## To press

An article by **Cynthia Weese**, FAIA, dean of the School of Architecture, on the work of St. Louis architect Frederick Dunn was published in the Summer 1997 issue of Harvard Design Magazine. The issue, published by Harvard University Graduate School of Design, recognizes "fine but little-known work" of architects and designers. Weese also served on a panel at Harvard that focused on graduate architecture programs and education. Additionally, she moderated a panel on design studio projects and was chair of design studio submissions at the Association of Collegiate Schools of Architecture's annual meeting held in Dallas.

## Guidelines for submitting copy:

Send your full name, complete title(s), department(s), phone number and highest-earned degree(s), along with a typed description of your noteworthy activity, to For The Record, c/o David Moessner, Campus Box 1070, or p72245md@wuvmd.wustl.edu. Items must not exceed 75 words. For information, call Moessner at (314) 935-5293.



# Opportunities & personnel news

## Hilltop Campus

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

**Oiler 980036. Euclid Power Plant.** Requirements: high school education; one year experience in a plant of comparable size as an oiler or comparable work experience; skill in the use of tools and equipment; general understanding of power plant machinery; history of dependability; mechanical aptitude; and ability and willingness to follow instructions.

**Deputized Police Officer 980037. Police Department.** Requirements: 640 hours of approved academy training required to be certified; must meet current police officer standards and training commission standards for certification as a peace officer in a 1st class county in Missouri; must be able to qualify for deputization as a police officer by the St. Louis County Police Department; and must have a current valid Missouri driver's license.

**Data Systems Assistant 980041. University Registrar.** Require-

ments: minimum one to two years college coursework and/or data processing experience, one or more years experience with student information and/or data systems in a university environment preferred; experience writing and executing data reports; basic word processing skills; ability to learn quickly with attention to detail and accuracy; service orientation; good written and verbal communication skills; team player; and sense of humor.

**Program Assistant 980042. CAIT.** Requirements: associate of art degree or two plus years college; competence with Microsoft Office '97 and other computer applications; demonstrated skill in verbal and written communications; ability to deal with the public; experience in scheduling and support of seminars preferred; responsible; detail oriented; and a team player. Position reports to program manager.

**Executive Secretary 980043. Electrical Engineering.** Requirements: some college; three to five years secretarial/administrative work; ability to arrange and maintain appointments, meeting and travel schedule for director of Center for Imaging Science; ability to communicate center information to faculty, staff and professional affiliates, as well as serve as public relations representative for center and post information on the Web site; above-average computer skills, including use of UNIX, Powerpoint and Macintosh software.

**Publications Assistant 980045 (Part-time). CCRC.** Requirements: some college preferred. Publications Editor is responsible for collecting all material to be published in the GM/IEEE transactions on

networking.

**Payroll Services Representative 980047. Accounting Services.** Requirements: high school diploma or equivalent and two years experience in bookkeeping, payroll, accounting or business, college course in business accounting preferred; working knowledge of routine office equipment including PC, calculator and typewriter; strong communication, organizational, verbal and alpha-numeric skills; discretionary judgment; word processing, spreadsheet and database experience highly desired; service orientation; and ability to participate as a team member on various types of teams and projects to achieve the goals of accounting services.

**Computing Center Manager 980049. Arts and Sciences Computing.** Requirements: college or technical school graduate or equivalent experience and training; experience in computer help center or computer network information center desirable; hardware maintenance experience helpful; excellent interpersonal skills and ability to work with a variety of people, including students and faculty; software support experience with Mac and Windows 95 (Win 3.x, WINNT helpful); experience with the Internet and UNIX; experience troubleshooting a variety of dial-up software packages and modems; HTML programming knowledge; and experience using TCP/IP networking tools, such as file transfer, remote access and WEB browsers.

**EMBA-HSM Student Services and Programs Coordinator 980054. Business.** Requirements: some college preferred; high-quality cus-

tomers service orientation; ability to interact with executive students and corporate clients; strong interpersonal and organizational skills; strong verbal and communication skills; ability to function in a fast-paced environment and work under occasional tight deadlines; and must be able to work some evenings and weekends.

**EMBA Student Services and Programs Coordinator 980055. Business.** Requirements: some college preferred; high-quality customer service orientation; ability to interact with executive students and corporate clients; strong interpersonal and organizational skills; strong verbal and communication skills; ability to function in a fast-paced environment and work under occasional deadlines; willingness to work some evenings and weekends.

**Assistant Director of EMBA Admissions 980056. Business.** Requirements: bachelor's degree; strong interpersonal communication skills (strong writing skills are essential); ability to interact with executive students and corporate contacts; high service orientation; ability to handle multiple tasks in an organized manner; ability to function in a fast-paced environment and work under occasional tight deadlines; and willingness to work occasional weekends and evenings. Some travel possible.

**Phone Operator 980057. Undergraduate Admissions.** Requirements: high school education; superior attendance record; and ability to work well under pressure. Responsibilities include handling all incoming telephone lines (five) for undergraduate admissions; using discretion and good judgment in dealing with the public; data entry support; and assisting in preparing visit confirmation letters and itineraries.

Clayton Ave., Campus Box 8002, St. Louis, MO, 63110. Please note that the medical school does not disclose salary information for vacancies, and the office strongly discourages inquiries to departments other than human resources. Job openings also may be accessed via the World Wide Web at <http://medicine.wustl.edu/wumshr>.

**Director, Business Operations.** Requirements: bachelor's degree in accounting or finance, master's degree and CPA preferred; seven years experience in a financial, accounting, budgeting or planning function with minimum five years supervisory experience; strong analytical and organizational skills. Responsibilities include managing and directing the financial affairs of all financial and system support activities within the Department of Facilities Management; overseeing the budget process for the department, which has an operating budget of more than \$40 million; analyzing operations and financial performance for 13 divisions; managing cost improvement; compiling annual operating and maintenance expense report; and managing centralized payroll, billing and collections and purchasing.

**Director, Continuing Medical Education.** Requirements: bachelor's degree, graduate degree preferred; five to seven years experience in adult education design, delivery and management; understanding of instructional design for computer-based learning preferred. Responsibilities include establishing and directing administrative, financial and business activities for Continuing Medical Education; developing strategies to promote new Continuing Medical Education opportunities and evaluate customer needs; and coordinating educational services through the development of needs assessments, outcome measurements, audience targetings and alternative learning methods.

**Assistant: Office 971274.** Requirements: high school graduate or equivalent; two years related office and data entry experience, preferably in a medical environment; ability to type accurately at 40-50 wpm; computer entry experience; one year experience in scheduling patient appointments preferred; knowledge of IDX systems; and knowledge

of and experience with medical office operations. Responsibilities include using departmental scheduling system; scheduling patient appointments for private and clinical offices; answering multi-line telephones and routing calls appropriately; obtaining accurate messages regarding patients and relaying information to physicians and/or necessary personnel; sorting and distributing mail; mailing informational packets to patients regarding appointment dates, times and locations, as well as costs and departmental policies; contacting patients when changes to their appointments are necessary; assuring courteous check-in and check-out of all patients and completion of insurance references; and collecting co-payments due.

**Clinic Administrator 980083.** Responsibilities include management responsibility for divisional finances, clinical practice development and strategic planning; managing divisional accounts; budget preparation; financial planning; reporting financial data; variance analysis; and practice management; accounting oversight for grants administration, clinical trials, industry sponsored projects and endowment funds; involvement with recruiting, hiring, mentoring and evaluating support staff. Requirements: bachelor's degree, master's degree in accounting, finance or health administration preferred; five years accounting or relevant experience; previous supervisory experience of professional staff; excellent oral and written communication skills; superior analytical thinking and problem-solving ability; and high level of professionalism in order to work with different personality styles essential.

**Professional Rater - Part Time 980175.** Requirements: high school graduate or equivalent, some college preferred; interviewing skills using DIS; superior communication and organizational skills. Will train exceptional candidate. Responsibilities include interviewing research subjects using the Diagnostic Interview Schedule; tracking subjects previously enrolled in the research study; and working with other staff members to coordinate the interviewing process of children.

## Campus Stores discontinues computer hardware sales

As a result of an increasingly competitive market, the large number of students who arrive on campus with computers, and the recommendation of a committee comprising faculty and students, Campus Stores has discontinued the sale of computer hardware. Campus Stores will continue to provide software, supplies and peripherals for faculty, staff and students.

All current hardware inventory is available for sale, and IDO's will be accepted until inventory is depleted. Non-stock hardware purchases and computer repair services should be handled through purchasing.

Additionally, to facilitate the pur-

chase of hardware by students, vendor contact information, phone numbers and Web site addresses will be available at Campus Stores. There also will be a phone available to place orders. The possibility of having a computer vendor in Campus Stores for the back-to-school period is being investigated.

Beginning Monday, Aug. 25, Campus Stores hours will be Monday through Thursday 8 a.m. to 9 p.m.; Friday 8 a.m. to 6 p.m.; Saturday 9 a.m. to 5 p.m.; and Sunday noon to 5 p.m.

For more information, call (314) 935-5394 or 935-5971.

## Medical Campus

The following is a partial list of positions available at the School of Medicine. Employees interested in submitting transfer requests should contact the Human Resources Department of the medical school at (314) 362-7196 to request applications. External candidates may call (314) 362-7195 for information regarding application procedures or may submit résumés to the human resources office located at 4480

## Neighbour plans 'proactive response' — from page 1

also is an important mission," Cicero said. "Therefore we need a mechanism to ensure that inventions that arise in the course of research quickly become available to the public through established commercial channels."

In fiscal year 1996, the University earned more than \$6 million in licensing fees and successfully negotiated more than 50 new agreements for the development of products such as software, computer and communication technology and pharmaceuticals.

"I intend to build upon this success by coordinating and expanding a strong technology transfer program with the expertise and resources sufficient to meet the needs of the University and all of its research faculty," Neighbour said. "An emphasis on proactive response, communication and expert assistance in all aspects of technology management will become the hallmarks of this initiative."

Neighbour will work closely with faculty members in the School of Medicine, the College of Arts and Sciences, the School of Engineering and Applied Science, the John M. Olin School of Business and other schools.

He founded his present company, START Technology Partnership, in 1992. START is a nonprofit consortium that assesses the commercial potential of early stage technologies and helps universities and research institutions establish new companies or find corporate partners.

Between 1982 and 1992, Neighbour held various positions with DuPont. As research and business manager for the extracorporeal therapy program, he led a team that developed medical devices. During his last three years, he also gained broad experience in new business development, technology evaluation and strategic planning for a wide range of business initiatives, including diagnostics, fermentation and superconductivity.

Neighbour holds a bachelor's degree in zoology from the University of Oxford, England, and a doctorate in virology and embryology from the University of London. He came to the United States in 1977 to conduct postdoctoral research in autoimmune diseases at the Albert Einstein College of Medicine. After two years, he joined the faculty, combining graduate and medical student teaching with research in basic and clinical immunology. During his six years at Einstein, he published more than 35 scientific papers.



The McDonnell Douglas Foundation tradition of giving is captured at a July 31 press conference in Chancellor Mark S. Wrighton's Brookings Hall office.

## University's bond with McDonnell continues — from page 1

Washington have a long-standing and mutually rewarding relationship we value most deeply. Many of our business and engineering graduates are McDonnell employees and many McDonnell engineers and executives have continued their educations with us.

"Over the years, the company, the

foundation and the McDonnell family have demonstrated generous support for the University. Furthermore, there is a long tradition of McDonnell family members serving as trustees of the University. This bond between us is something that began a long time ago and will continue into the future," Wrighton added.