

Washington University School of Medicine

Digital Commons@Becker

Washington University Record

Washington University Publications

8-28-1997

Washington University Record, August 28, 1997

Follow this and additional works at: <https://digitalcommons.wustl.edu/record>

Recommended Citation

Washington University Record, August 28, 1997. Bernard Becker Medical Library Archives.
<https://digitalcommons.wustl.edu/record/765>.

This Article is brought to you for free and open access by the Washington University Publications at Digital Commons@Becker. It has been accepted for inclusion in Washington University Record by an authorized administrator of Digital Commons@Becker. For more information, please contact vanam@wustl.edu.

Record

WASHINGTON
UNIVERSITY
IN ST. LOUIS

Vol. 22 No. 1 Aug. 28, 1997



A first for the Employer-assisted Housing Program

At a media conference Friday, Aug. 22, in front of their new home in the 1000 block of South Taylor, Eric Ahern and Elizabeth de la Garza-Ahern are recognized by Mayor Clarence Harmon (left) and William A. Peck (right), M.D., executive vice chancellor for medical affairs and dean of the School of Medicine, as being the first couple to purchase property through the Washington University/Medical Center Employer-assisted Housing Program. Eric Ahern is a research technician in radiation oncology at the medical school. The housing program is part of House St. Louis, a grassroots housing partnership between Fannie Mae, lenders, non-profit groups and the City of St. Louis to provide affordable housing opportunities to 6,000 families. Employees of Washington University, the Medical Center and BJC Health System are eligible for loans up to \$4,000 for down payments and closing costs if they purchase one-to-four-unit properties in the Forest Park Southeast or Skinker-DeBaliviere neighborhoods.

‘More than the sum of its parts’ Reorganization should enhance students’ experience

As part of an ongoing endeavor to enhance students’ experience at Washington University, James E. McLeod, vice chancellor for students, has announced a reorganization of the areas that deal directly with students in a day-to-day manner.

The modification, which pulls all areas connected with the students’ campus life under one administrative umbrella, includes naming four assistant vice chancellors for students. The four, comprising one new addition and three continuing staff members, are:

- Jill E. Carnaghi, who joins the University as assistant vice chancellor for students and director of campus life;
- Justin X. Carroll, formerly dean of student affairs, now assistant vice chancellor for students and dean of students;
- Karen Levin Coburn, formerly associate dean of student affairs, now assistant vice chancellor for students and

associate dean for the freshman transition; and

- Steven P. Hoffner, who joined the University in March as assistant vice chancellor for students and director of operations.

The impetus for the reorganization began two years ago when Chancellor Mark S. Wrighton charged McLeod with the task of uniting all the areas that work directly on behalf of students, including the offices of admissions and financial aid.

“What we’re accomplishing with these four assignments is to put mature and experienced leadership in key areas where we need to make great progress,” said McLeod, who also serves as dean of the College of Arts and Sciences. “Each new role offers focused responsibility and the six of us — which also includes John A. Berg, associate vice chancellor for students — will work together to improve the

students’ total experience. The idea is to make this more than the sum of its parts.

“Within the new structure,” McLeod continued, “sharper focus will be directed to five areas: the recruitment of talented students; the role of student organizations, activities and events; the health and fitness of our students; the intellectual development and success of all our students; and more efficient management of operations and planning.”

McLeod also targeted the University’s new “residential college” setting as a priority. Residence halls are being arranged in subset communities of about 300 students with the aim of providing students with everything from an enhanced sense of kinship, to expanded programmatic choices, to increased faculty and staff presence and support, to additional common areas for study or gathering.

Continued on page 5

Computer system aids in analysis of mammograms

Researchers at Washington University are developing a novel way to prescreen mammograms with the use of an intelligent computer system trained to recognize abnormalities in breast tissue.

The method, once perfected, would lessen the workload of radiologists whose case numbers promise to become unmanageable in the near future with more women undergoing screening mammograms for early detection of breast cancer. The method also could reduce costs involved with unnecessary trips to specialists to interpret X-ray images.

It is now estimated that breast cancer will strike one in nine adult American women. Recently revised guidelines from the National Cancer Institute, the American College of Radiology and other national health organizations encourage women older than 40 to have a yearly mammogram, as well as younger women with a family history of the disease. Previously, mammograms were recommended for women 50 and older.

Barry L. Kalman, Ph.D., and Stan C. Kwasny, Ph.D., both senior research associates in the computer science department of the School of Engineering and Applied Science, and William R. Reinus, M.D., associate professor of radiology in the School of Medicine, used a computer system to analyze 55 two-view, digitized mammograms of biopsied patients. The system correctly identified 79 percent of images where cancer was present. Twenty-one percent of the images were identified as not having a potentially malignant mass where one was present, the classic “false negative” diagnosis.

The researchers published the description of their method and their results in the June 1997 issue of *Academic Radiology*.

“The numbers are highly encouraging at this stage of development,” said Reinus, a radiologist with a special interest in computational artificial intelligence. “The idea is to develop a machine that can interpret the normal reading with ease and wave a red flag over ones that are suspicious. The machine would not diagnose cancer per se. That is still the domain of the radiologist, surgeon and pathologist. The goal is to get a 95 percent accuracy rate of discriminating normal mammograms from those that indicate possible cancers. That’s as good or better than the best mammographers can do today.”

The number of mammograms a radiologist interprets daily ranges from several to nearly 200, depending on the

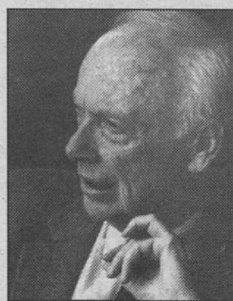
Continued on page 6

Assembly Series features religion scholars and scientists

James Watson, Nobel Prize winner and co-discoverer of DNA, will open the Fall 1997 Assembly Series at 11 a.m. Wednesday, Sept. 3, with the Arthur Holly Compton Memorial Lecture. Watson’s lecture, “Living With the Human Genome Project,” will take place in Graham Chapel.

The Assembly Series lectures, now in their 48th year, are free and open to the public. This year, the series is incorporating a special focus on issues that characterize the interplay between religion and contemporary society. The lectures are planned and supported by Student Union, academic departments and other groups, as well as the Assembly Series Committee. Unless otherwise noted, the lectures begin at 11 a.m. in Graham Chapel.

In 1953, James Watson, with Francis Crick, successfully proposed the double



James Watson

helical structure for DNA, a feat described by Sir Peter Medawar as “the greatest achievement of science in the 20th century,” and for which, in 1962, they were awarded the Nobel Prize in physiology or medicine. Watson, also an author, has written the seminal text “Molecular Biology of the Gene,” as well as the best-selling autobiographical volume “The Double Helix.”

As leader of the Cold Spring Harbor Laboratory in New York, he has been instrumental in the development of the Human Genome Project, an international effort to decipher the genetic blueprints of the human body, and served as director of the National Institutes of Health’s National Center for Human Genome Research from 1989 to 1992.

Other lectures in the fall Assembly Series are:

Sept. 10: Religion scholar Elaine Pagels gives the Woman’s Club Lecture, “The Origin of Satan.”

Sept. 17: Robert Alter, professor of comparative literature and religion at the University of California at Berkeley, discusses “The Double Canonicity of the Hebrew Bible.”

Continued on page 5

In this issue ...

Promising protein 2
Treatment with C-peptide may prevent and reverse vascular and nerve damage in diabetics

Fragments of history 3
Susan Rotroff, Ph.D., studies long-buried materials of the past to piece together ancient mysteries

A best value 6
U.S. News and World Report ranks Washington University among the top 20 in a new college category

Medical Update

Cooper, Gay and Patterson awarded named professorships

Three School of Medicine surgeons have been awarded named professorships. Joel D. Cooper, M.D., is the Evarts A. Graham Professor of Surgery; William A. Gay Jr., M.D., is the John M. Shoenberg Professor of Cardiovascular Surgery and G. Alexander Patterson, M.D., is the Joseph C. Bancroft Professor of Cardiothoracic Surgery.

The announcements were made by Samuel A. Wells Jr., M.D., the Bixby Professor of Surgery and head of the Department of Surgery.

"These professorships are awarded to three outstanding academic surgeons — among the world's best," said William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine. "The generosity of our strong supporters and friends makes these chairs possible and enables us to recruit and retain the best clinicians and scientists."

Cooper, recently named director of the Division of Cardiothoracic Surgery, will assume the Evarts A. Graham Professorship previously held by James L. Cox, M.D. Cooper's innovations include the world's first successful single-lung and double-lung transplants.



Joel D. Cooper

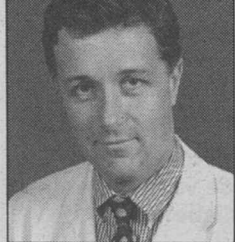
In 1993, he developed lung-volume reduction surgery, an operation that significantly improves the breathing and stamina of emphysema patients. His pioneering research earned him the Jacobson Innovation Award from the American College of Surgeons.

Cooper's professorship was established in honor of Evarts A. Graham, M.D., a former chairman of the Department of Surgery at the School of Medicine. Graham, who died in 1957, was a founder of the American Board of Surgery and a pioneer in chest surgery.

Gay will assume the John M. Shoenberg Professorship previously held by Nicholas T. Kouchoukos, M.D. Gay, a renowned heart surgeon with 117 scientific papers to his credit, joined the medical school as a professor of surgery in 1995. From 1995 to 1997, he was chairman of the American Board of Thoracic Surgery. He currently is a member of the editorial boards of Surgery and The Annals of Thoracic Surgery.

The John M. Shoenberg Professorship in Cardiovascular Surgery was established in 1970 with a gift from the Shoenberg Foundation. John M. Shoenberg, a businessman, Washington University alumnus and former board president of Jewish Hospital, died of heart disease in 1974.

Patterson is the second recipient of the Joseph C. Bancroft professorship. The title was previously held by Cooper.



G. Alexander Patterson

Patterson joined Washington University as a professor of surgery in 1991 and has served as the surgical director of the school's adult lung-transplant program since 1992.

The lung-transplant center at the School of Medicine/Barnes-Jewish Hospital is the largest in the nation. Joseph C. Bancroft established the professorship in 1993. Bancroft, founder of Croft Metals, a Florida-based company that produces materials for construction companies, was a humanitarian with a strong commitment to advancing medical research. He died in 1996.

He developed lung-volume reduction surgery, an operation that significantly improves the breathing and stamina of emphysema patients. His pioneering research earned him the Jacobson Innovation Award from the American College of Surgeons.

Cooper's professorship was established in honor of Evarts A. Graham, M.D., a former chairman of the Department of Surgery at the School of Medicine. Graham, who died in 1957, was a founder of the American Board of Surgery and a pioneer in chest surgery.

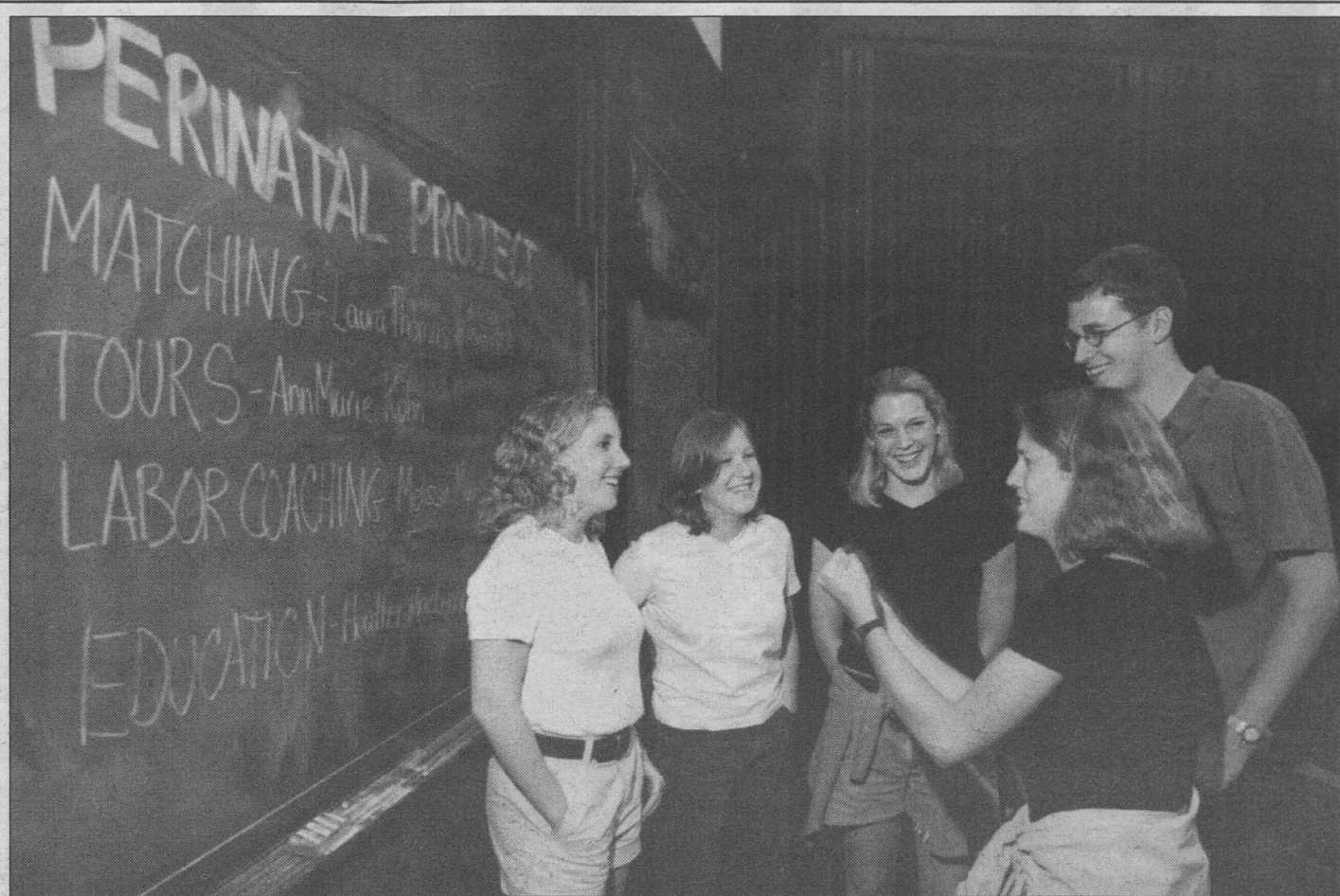
Gay will assume the John M. Shoenberg Professorship previously held by Nicholas T. Kouchoukos, M.D. Gay, a renowned heart surgeon with 117 scientific papers to his credit, joined the medical school as a professor of surgery in 1995. From 1995 to 1997, he was chairman of the American Board of Thoracic Surgery. He currently is a member of the editorial boards of Surgery and The Annals of Thoracic Surgery.

The John M. Shoenberg Professorship in Cardiovascular Surgery was established in 1970 with a gift from the Shoenberg Foundation. John M. Shoenberg, a businessman, Washington University alumnus and former board president of Jewish Hospital, died of heart disease in 1974.

Patterson is the second recipient of the Joseph C. Bancroft professorship. The title was previously held by Cooper.

Patterson joined Washington University as a professor of surgery in 1991 and has served as the surgical director of the school's adult lung-transplant program since 1992.

The lung-transplant center at the School of Medicine/Barnes-Jewish Hospital is the largest in the nation. Joseph C. Bancroft established the professorship in 1993. Bancroft, founder of Croft Metals, a Florida-based company that produces materials for construction companies, was a humanitarian with a strong commitment to advancing medical research. He died in 1996.



Seeking new members

At a Thursday, Aug. 21, welcome luncheon to recruit new members to the Perinatal Project, second-year student Heather MacLennan (front) explains the Perinatal Project to first-year students. They are (from left) Carol Kaplan, Elena Karp, Paula Gerber and Ethan Korngold. The Perinatal Project is a volunteer organization that works to decrease the infant mortality rate in St. Louis by helping young women achieve healthy pregnancies and have healthy babies. The luncheon was held in Moore Auditorium.

Protein reverses vascular, nerve damage in diabetic rats

School of Medicine researchers recently announced that a small protein once thought to be a useless waste product may effectively prevent and even reverse cardiovascular disease and nerve damage in diabetics.

In a joint study with Eli Lilly and Co., the researchers found that treatment with a human protein called C-peptide repaired damaged blood vessels and nerves in diabetic rats. The protein, a byproduct of the production of insulin, is present in nondiabetic people but scarce or absent in Type I (insulin-dependent) diabetics.

The study is described in the July 25 issue of Science. The research was supported by the Kilo Diabetes and Vascular Research Foundation, the National Institutes of Health and Eli Lilly and Co.

"Some researchers had suspected that C-peptide might have some biological action, but it was difficult to prove," said Yasuo Ido, Ph.D., research associate of pathology and lead author of the paper. "We found that not only does it have biological effects, but these effects may be extremely important for protecting the heart, nerves and arteries."

Both Type I and Type II (non-insulin-dependent) diabetes greatly increase the risk of nerve damage and cardiovascular disease. For unknown reasons, glucose imbalances in diabetic tissues lead to widespread damage of nerve cells and cells that line blood vessels. The damaged blood vessels become leaky, allowing cholesterol to seep in and set the stage for atherosclerosis and dangerous vascular occlusions.

Beginning in the 1970s, some researchers wondered if diabetics might be suffering from a lack of C-peptide, normally secreted by the pancreas in concert with

insulin. In 1993, the late Julio Santiago, M.D., professor of medicine and of pediatrics, injected human diabetics with low doses of the protein — just enough to match normal levels — but saw no effects.

Trying a different approach, Ido and colleagues injected diabetic rats with larger doses of synthetic human C-peptide, exceeding the levels of C-peptide that rats produce naturally. The results were dramatic: Nerve cells worked normally, and vessels almost completely stopped leaking. Because relatively large doses were needed to achieve the effect, researchers suspect C-peptide therapy could also help Type II diabetics who already have normal levels of the protein.

"Since this protein is so effective at preventing and reversing vascular leakage, it brings up the possibility that it could prevent cardiovascular disease in both types of diabetes," said Joseph R. Williamson, M.D., professor of pathology at the School of Medicine and director of research for the Kilo Diabetes and Vascular Research Foundation. Type I diabetics would still have to take insulin, but they might not have to be so concerned about maintaining absolutely normal glucose levels to prevent vascular and nerve damage, he said.

Despite the impressive results, the researchers faced a significant problem. "We had a hard time convincing people of our findings because the protein obviously wasn't working in the usual way," Ido said. Most researchers assumed that C-peptide, if it did anything at all, must work by fitting into a specific receptor like a key fits into a lock. Many investigators, including Ido, searched for a receptor for C-peptide without success.

Researchers eventually used a molecular trick to prove that C-peptide didn't need a receptor. They made a mirror-image of the protein by reversing each of its building-block amino acids. If the protein worked like a key, its mirror-image analog would be useless because it wouldn't fit in the lock. To their astonishment, the researchers found that the mirror image of C-peptide also prevented vascular damage.

Researchers know that C-peptide binds to cell membranes, but they can

only guess how it changes the cell. Paul Schlesinger, M.D., Ph.D., associate professor of cell biology and physiology, found that C-peptide strongly affected the flow of potassium ions through artificial membranes. Perhaps, Williamson says, C-peptide helps restore a delicate electrical and ion balance in cells that is disrupted by diabetes. Researchers need to further examine C-peptide — and develop a better understanding of how diabetes damages cells — before they can determine the function of the protein, he said.

— Chris Woolston

Record

Acting editor: Martha Everett, 935-5235, Campus Box 1070

Associate vice chancellor, executive director, University Communications: Judith Jasper

Executive editor: Susan Killenberg

Editor, medical news: Diane Duke, 286-0111, Medical School Box 8508

Assistant editor: David Moessner, 935-5293

Production: Galen Harrison

Record (USPS 600-430; ISSN 1043-0520), Volume 22, Number 1/Aug. 28, 1997. Published for the faculty, staff and friends of Washington University. Produced weekly during the school year, except school holidays, and monthly during June, July and August by the Office of Public Affairs, Washington University, Campus Box 1070, One Brookings Drive, St. Louis, MO, 63130. Periodicals postage paid at St. Louis, Mo.

Address changes and corrections:

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

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

Medical Campus employees: Send to Payroll Office, Washington University, Campus Box 8017, 660 S. Euclid Ave., St. Louis, MO, 63110.

Electronic Record: To view the Record on the World Wide Web, go to <http://wupa.wustl.edu/record/record.html>.



Washington

WASHINGTON UNIVERSITY IN ST. LOUIS

Washington People

Rotroff unburies conundrums of history

Puzzles. To Susan Rotroff, there's nothing like solving a good puzzle. And, for Rotroff, the more ancient the puzzle, the better.

Rotroff, Ph.D., is a professor of classics in Arts and Sciences. For nearly 30 years, the classical archaeologist has devoted her puzzle-solving skills to learning about the lives of the ancient Greeks from remnants of daily life found in excavations.

"I enjoy puzzle-solving," Rotroff said. "It's sort of like putting together pottery. ... We're trying to make contact over a great gap of time. We excavate someone's house and then try to find the lost activities and events that took place there."

Her primary focus has been the study of pottery from the Hellenistic Period. Much of the pottery she has studied was excavated at the Athenian Agora, which once served as a civic center filled with government buildings, magistrates' offices and shops.

The Hellenistic Period encompasses the time of Alexander the Great, who came to the throne in 336 B.C., through the first century B.C. The Athenian Agora excavations began in 1931 and were funded for many years by American oil magnate-philanthropist John D. Rockefeller.

Among the societal tidbits that Rotroff has been able to glean from her study of pottery found in the Agora is that magistrates in the fifth century B.C. were not teetotalers on the job. She has also determined that ancient public officials were just as concerned about the theft of public property as their descendants are today. Rotroff found many pieces of pottery that had been scratched for identification with the Greek letters "D" and "E" representing the word "demosion," Greek for "public property."

Solidifying life's work

Rotroff became interested in archaeology as well as Latin as a young student growing up in Stamford, Conn. She visited Greece for the first time during her senior year in high school — a trip that helped solidify her choice of life's work.

After receiving an undergraduate degree in archaeology from Bryn Mawr College in Pennsylvania, she went to Greece for a year and worked on three excavations. She then completed graduate studies at Princeton University, earning both a master's degree and a doctorate in classical archaeology.

These days, Rotroff limits her activities on excavation sites to the study of unearthed pottery. The physical task of excavating, she said, is for the young. "It's not as exciting to me as studying the material," said Rotroff.

She does consider herself fortunate to have been able to study pottery that she had unearthed as a graduate student in Greece. Found in a pit measuring two-yards wide and deep, the pottery dated to the fifth century B.C. It was Rotroff's job to determine where it came from and how it was used.

Because 20 pieces of tableware from the excavated pottery were identified with the scratched-on Greek letters "D" and "E," Rotroff concluded that the tableware had something to do with public life. She then proceeded to study its use and attempt to link it to historical events in Athens.

"We suggested that the pottery was used by the chief magistrates of the city," Rotroff said. "The date of the latest pottery we found was the same as an earthquake documented in ancient sources. ... It was exciting because I had excavated the material. It was also interesting to discover a huge number of drinking cups for wine, which suggested that the magistrates drank wine at their public meals."

The results of her study were published with John H. Oakley in 1992 and titled "Debris From a Public Dining Room in the Athenian Agora/Hesperia Supplement 25."

Rotroff is considered a world expert on pottery from the Hellenistic Period, a distinction that may well be credited to her willingness to study a period that other archaeologists had ignored.

She began her studies in the area as a dissertation topic.

"The fifth century B.C. in Athens has been placed on a pedestal by later ages," Rotroff said. "That was when the Parthenon was built and playwrights were writing plays that are still admired today."

"The Hellenistic Period was not seen as the most interesting or inspiring period. People hadn't worked on it that much. But I've always been interested in working in a backwater. So when I was looking for dissertation material and this was available, I was thrilled to get it. It was challenging because there was not much material available in libraries on this period."

Dating the information required quite a bit of detec-

also does an incredible amount of administrative work for this department and other departments and is always available to students. She's a remarkable addition to the University. She's both a first-rate scholar and a first-rate human being."

Getting students on site

In addition to her own research, Rotroff has been instrumental in helping Washington University students be accepted as student volunteers on the site. Michael Laughy, a graduate student from Portsmouth, N.H., studying classics, worked on the site this summer.

"It brings an immediacy to your studies to be in Athens in sight of the Acropolis," said Laughy, who would not have been able to afford the air fare to work on the excavation without the support of Rotroff and the department. "She single-handedly afforded me an incredible opportunity."

Rachel Popelka, a junior from St. Louis majoring in archaeology, worked on the site last summer following Rotroff's recommendation.

"It was a monumental experience," said Popelka. "I had always dreamed of digging in Greek soil and coming up with pottery. Professor Rotroff is involved in so many different projects. But she always takes the time to talk to students about their interests. She's a very supportive professor of any student who comes to her."

Rotroff plans to continue her own studies of the site and

currently is working on excavated kitchenware.

"We want to expand what we know about the way people prepared food," said Rotroff. "It's interesting to look at the equipment ancient women had to use. Cuisine also is an aspect of culture. Different countries serve different foods. If we can link the kitchenware with new eating habits, it probably means that this society had contact with other people arriving in Greece."

She's also involved in a joint project in which the unique contents of a well in the Agora dating to the second century B.C. are being studied. In addition to large pottery basins, the well contains the remains of 450 newborn infants and 125 to 175 dogs. "The puzzle is to determine why they're there — whether these were natural or unnatural deaths," said Rotroff. "We know the ancients practiced infanticide. The victims were more commonly female than male, but it's difficult to [determine the gender of] newborn babies from bones. There was also a great deal of infant mortality. Aristotle said that most babies die before they're 10 days old. If a baby had a deformity, the parents wouldn't raise it. They thought it was irresponsible. People's attitudes about child-rearing varied greatly. This could have been the result of the normal way people dealt with newborns."

Rotroff is collaborating on the project with Lisa Little, a physical anthropologist and doctoral candidate at Indiana University, who is studying the skeletal remains, and with Lynn Snyder, Ph.D., of the Smithsonian Institution, who is studying the animal remains. Rotroff is studying basins found in the well, which may have contained the newborns or may have been used to dispose of afterbirths.

Although working at a site in a country setting is tempting to Rotroff, she believes her on-site work will remain in Athens. "I don't like dealing with the traffic and pollution of the city," said Rotroff. "But this site has so much information. ... I'm mostly interested in dating [pottery] and what I'm able to do with the dated pottery to say something about ancient society. It's difficult to do."

For Rotroff, that challenge is coupled with the thrill of unearthing history. "The excitement for me in archaeology is discovering and seeing things that nobody has seen for thousands of years."

— Brenda Murphy



Susan Rotroff, Ph.D., talks with student C.J. Armstrong in the classics department in Arts and Sciences.

"She's both a first-rate scholar and a first-rate human being."

— George M. Pepe

tive work on Rotroff's part. Because most of the pottery had been excavated from ancient wells that had gone dry and then were used for refuse disposal, Rotroff looked for other discarded items, such as coins, that could be dated and tied to the pottery.

Nearly 200 wells and cisterns were filled in during the Hellenistic Period, producing an abundance of pottery for Rotroff to study. She chose to examine one shape of pottery used as drinking cups, which contained relief designs. Approximately 1,600 pieces of pottery had been inventoried from the excavation site.

To create her dissertation, Rotroff had to review each piece of pottery. She also reviewed pottery fragments in storage, as well as previously dated deposits from the site.

The result of her work has been published in two volumes. The first, in 1982, was her dissertation, "The Athenian Agora XXII, Hellenistic Pottery: Athenian and Imported Moldmade Bowls." The second volume focused on other tableware and was published this year under the title "Hellenistic Pottery: Athenian and Imported Wheelmade Tableware From the Athenian Agora."

Rotroff's work has received notice not only in archaeology circles but also from the John D. and Catherine T. MacArthur Foundation, which awarded her a five-year fellowship in 1988. The award allowed Rotroff to take some time off and complete her second volume.

Rotroff joined Washington University in 1995. "Professor Rotroff is among the very few recognized as world authorities on Greek pottery," said George M. Pepe, Ph.D., associate professor and chair of the classics department. "She's someone of that stature who

Calendar

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

Aug. 28–Sept. 6



Exhibitions

Selections From the Washington University Art Collections. "Art in the Age of Revolution." Exhibit runs Sept. 2 through Oct. 12. "Leonard Baskin: Prints." Exhibit runs Sept. 2 through Dec. 7. Gallery of Art, lower gallery. 935-5490.

"Site As Context: Schools of Art and Architecture Faculty Projects." Reception will be held 5-7 p.m. Sept. 5. Exhibit runs Sept. 2 through Oct. 19. Gallery of Art, upper gallery. 935-5490.



Films

Wednesday, Sept. 3

6 p.m. Chinese Film Series. "The Last Emperor." Room 219 South Ridgley Hall. 935-5156.

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 the Calendar editor at Campus Box 1070 or via fax to (314) 935-4259. Submission forms are available by calling (314) 935-5230.

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) 935-5230.

Travel Lecture Series ushers in WU Association's 100th year

The 1997-98 season of Washington University's Travel Lecture Series is ready for takeoff, and this year, its many stops will include Sweden, Spain, Wales, the American West and Japan. The series, which is presented by the Washington University Association — an organization dedicated to extending the University's resources to the community — will offer nine travelogues, including a special bonus show, "People of Poland," in September to celebrate the association's 100th anniversary as St. Louis' oldest lecture series.

The Travel Lecture Series is a monthly series of travelogues that take place on Friday evenings at 6 p.m. and again at 8:30 p.m. in Graham Chapel. Subscription to the program costs \$26 for a single enrollment and \$43 for a double enrollment.

The Washington University Association was established in 1898 to extend the University's educational mission to the St. Louis community. In its original incarnation, the association planned a series of lectures each year designed to educate the public on a variety of issues. Some of the lectures addressed



Lectures

Tuesday, Sept. 2

12:10 p.m. Physical therapy research seminar. "Injury Surveillance in High School Athletes — Preliminary Results," Anthony Margherita, assoc. prof. of neurology and neurological surgery. Classroom C Forest Park Bldg., 4444 Forest Park Blvd. 286-1400.

Wednesday, Sept. 3

8 a.m. Obstetrics and Gynecology Grand Rounds. "Obstetrics and Gynecology Into the Next Millennium — What Does the Future Hold for our Specialty?" James R. Schreiber, prof. and head, Dept. of Obstetrics and Gynecology. Clopton Aud., 4950 Children's Place. 362-3143.

11 a.m. Assembly Series. The Arthur Holly Compton Memorial Lecture. "Living With the Human Genome Project," James Watson, Nobel Prize-winning co-discoverer of DNA. Graham Chapel. 935-5285. *See story on page 1.*

Thursday, Sept. 4

Noon. Genetics seminar. "From X Chromosome Mapping to the Genetics of Aging," David Schlessinger, prof. of molecular microbiology. Genetics Library, Room 823 McDonnell Medical Sciences Bldg. 362-7072.

1:10 p.m. Social work lecture. "Deliberative Democracy: A Community and Its Newspaper," Cole C. Campbell, editor, St. Louis Post-Dispatch. Brown Hall Lounge. 935-5687. *See story below.*

4 p.m. Chemistry seminar. "Synthesis of Mestastable Alloys in the C-Si-Ge Family: New Precursors Give New Materials With New Structures," John Kouvetakis, asst. prof. of chemistry, Arizona State U., Tempe. Room 311 McMillen Lab. 935-6530.

4 p.m. Earth and planetary sciences colloquium. "Linking Environmental Science and Management in Education and Policy," Jeff Dozier, dean, School of Environmental Science and Management, U. of California, Santa Barbara. Room 362 McDonnell Hall. 935-5610.

local politics and University issues while others presented travelogues or topical explorations in areas such as science, art and sociology. By the early 1950s, the chief focus of the association's lecture series had become travelogues, although it was not until 1983 that the series became formally known as the Travel Lecture Series.

The 1997-98 Travel Lecture Series is as follows:

Sept. 12: "People of Poland" by Charles Hartman;

Oct. 3: "Japan" by Dwayne Merry;

Nov. 7: "Greek Isles" by Grant Foster;

Dec. 5: "Iceland: Europe's Wild Gem" by John Wilson;

Jan. 2: "Finland: Star of Scandinavia" by Jim Cole;

Feb. 6: "Montana: Beneath the Big Sky" by Dale Smith;

March 6: "Return to Sweden" by Dale Johnson;

April 3: "Wales: In Spirit and Song" by Bob Willis; and

May 1: "In the Soul of Spain" by Bob Chrysler.

For more information or to register, call Jennifer Winter at (314) 935-5212.

Friday, Sept. 5

Noon. Cell biology and physiology seminar. "Cytokine Signals for Lymphoid Tissue Development," David D. Chaplin, prof. of medicine and of genetics, and assoc. prof. of molecular microbiology. Room 426 McDonnell Medical Sciences Bldg. 362-6950.



Music

Wednesday, Sept. 3

8 p.m. Chamber orchestra concert. Program: "Concerto Extravaganza." Directed by Elizabeth Macdonald, visiting artist in music. Umrath Hall Lounge. 935-4841.



Miscellany

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. For times, costs and to register, call 362-6891.

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). For times, costs and to register, call 362-2916.

Future of St. Louis is featured topic of social work lectures

Cole C. Campbell, editor of the St. Louis Post-Dispatch, will open the George Warren Brown School of Social Work's 1997 Fall Lecture Series on Thursday, Sept. 4. Each of the five lectures in the series, which is free and open to the public, will be held at 1:10 p.m. on a Thursday in Brown Hall Lounge.

Cole will speak on "Deliberative Democracy: A Community and Its Newspaper."

Other lectures in the series are:

Sept. 18: "St. Louis 2004: A Vision for a Vibrant Community," John C. Danforth, chairman of St. Louis 2004;

Oct. 9: "Religion, Women and Social Justice," The Very Reverend Sandra A. Wilson, rector, St. Thomas Episcopal Church, Denver;

Nov. 6: "The Politics of Aging in a Diverse Society: A Nation in Transition," Fernando Torres-Gil, associate dean and director, Center for Policy Research on Aging, University of California at Los Angeles School of Public Policy and Social Research; and

Nov. 20: "Creating Social and Economic Opportunities in Urban America," Maureen L. McAvey, executive director, St. Louis Development Corporation.

Wednesday, Sept. 3

4:30 p.m. Catholic Student Center event. "A Conversation With Sister Helen Prejean," Helen Prejean, C.S.J., author of "Dead Man Walking." Bryan Cave Moot Courtroom, Anheuser-Busch Hall. Also, 6:30 p.m., Graham Chapel. 725-3358. *See story below.*

Thursday, Sept. 4

7:30 p.m. Women's studies discussion. Discussion of "Rhetorical Spaces" by Lorraine Code. Hurst Lounge, Room 201 Duncker Hall. 935-5102.

Saturday, Sept. 6

10 a.m.-noon. University College Writing Workshop. Fiction Workshop. Focus on discussion and constructive criticism of work submitted by class members. Instructed by Julia Hanna, managing editor, Boulevard magazine. Continues Saturdays through Oct. 25. Cost: \$215. For more info. and to register, call 935-6701.

10 a.m.-noon. University College Writing Workshop. Poetry Workshop. Focus on imagery, diction, rhythm and form. Instructed by Jonathan Smith, published poet and Ph.D. candidate in English. Continues Saturdays through Oct. 25. Cost: \$215. For more info. and to register, call 935-6701.



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.

'Dead Man Walking' author speaks at WU

Sister Helen Prejean, C.S.J., author of "Dead Man Walking," will discuss her book and experiences in two events Wednesday, Sept. 3. At 4:30 p.m., "A Conversation With Sister Helen Prejean" will be held in the Bryan Cave Moot Courtroom in Anheuser-Busch Hall. At 6 p.m. in Graham Chapel, she will meet with the public before giving a presentation at 6:30 p.m. A question-and-answer session will follow Prejean's talk in Graham Chapel.

Both events, which are sponsored by the Catholic Student Center, are free and open to the public.

Prejean's experiences working with death row prisoners and accompanying them to their execution was made into the movie "Dead Man Walking." Actress Susan Sarandon won an Academy Award for her portrayal of Prejean in that film.

For more information, call (314) 725-3358.

Clarification: Regarding the Aug. 21 Record story on the renovation of Holmes Lounge, Ridgley Hall was designed for Washington University, and the building was constructed by Bright Construction Co. It was leased to the Louisiana Purchase Exposition Co. for the 1904 World's Fair. The building was intended to be a library and was built with funds from an 1889 gift of Stephen Ridgley, supplemented by rental money from the Louisiana Purchase Exposition Co.



Moving day

New and returning students moved into the residence halls on the South 40 last week. As the University welcomes the students to campus, here's a brief profile of preliminary numbers for the incoming freshman class:

Entering freshmen:	1,259
Men:	601
Women:	658
States represented:	48 (and the District of Columbia and Puerto Rico)
Countries represented:	32
In the top 10 percent of their class:	70 percent
In the top 5 percent of their class:	52 percent
National Merit or National Achievement scholars:	63
National Honor Society members:	802
Enrollment by school:	
Arts & Sciences:	756
Engineering:	226
Business:	136
Art:	94
Architecture:	47

Mature and experienced leadership placed in key areas — from page 1

Carnaghi, who came to the University in June after serving six years as director of residential life at the University of Vermont, is responsible for coordinating and directing student activities and events; student organizations, including Greek affairs; space management and scheduling; University calendar and bulletin boards; and conference planning.

While at Vermont, she also served as an adjunct faculty member in the Higher Education and Student Affairs Administration graduate program. She was at Indiana University in Bloomington from 1985 to 1991, first as a graduate assistant to the dean in the School of Education and then as the assistant to the dean. Carnaghi held various residential life positions at Michigan State University (1975-77), the University of California at Davis (1977-79 and 1982-85), and at Vermont (1979 to



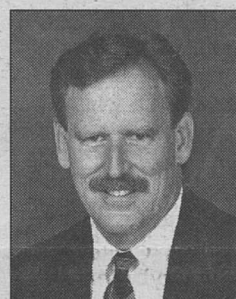
Jill E. Carnaghi

1981). Active in the profession, she currently serves as treasurer of the American College Personnel Association.

Carnaghi received a bachelor of arts degree in human development and recreation in 1975 from Purdue University in West Lafayette, Ind. She earned a master of arts degree in college student personnel administration in 1977 from Michigan State University. In 1992, she received a doctorate of philosophy in higher educa-

tion administration from Indiana University.

Carroll's responsibilities include overseeing the departments of Housing and Residential Life, Athletics and Judicial Affairs. In addition, he will guide the development of the "residential college" system and assist in directing the construction of seven new residence halls and the renovation of the existing halls. Carroll also serves as dean of students to the University's 5,000-plus undergraduates.



Justin X. Carroll

Carroll joined the University in 1981 as director of student activities. In 1986, he was named associate dean of students and acting director of residential life. He was appointed acting dean of student affairs in 1992 and was named dean in 1993. Last year, he also oversaw the merger of the housing operation and the residential life program. Before coming to Washington University, Carroll was coordinator of student organization development at the University of Iowa.

Carroll earned a bachelor of arts degree in political science and history in 1972 from Benedictine College in Atchison, Kan. He received a secondary teaching certificate at the University of Missouri at St. Louis in 1974, and a master's degree in college students development in 1979 from

Southern Illinois University at Carbondale.

Coburn is responsible for guiding the departments of health services, counseling, disabled student services and orientation, as well as the international office. She also will work with schools and departments on the transition of first-year students to the University.

Coburn joined the University in 1979 as coordinator of career planning in the Career Center. She became associate director in 1981 and director in 1982.



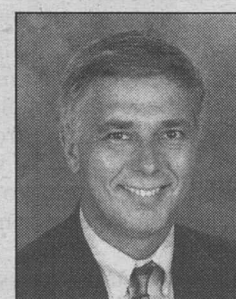
Karen Levin Coburn

Coburn was named associate dean for student development in 1987, designing and implementing a comprehensive program of extra-curricular experiences for undergraduates. Prior to her service at Washington University, she was director of counseling at Fontbonne College in St. Louis from 1974-78. A licensed psychologist and professional counselor, she is author of three books, including "Letting Go: A Parents' Guide to Understanding the College Years," which currently is in its third edition.

Coburn graduated Phi Beta Kappa from Skidmore College in Saratoga Springs, N.Y., in 1963 with a bachelor of arts degree in English. She received a master's degree in English in 1964 from Harvard University in Cambridge,

Mass., and a master's degree in counseling in 1973 from Washington University.

Hoffner joined the University after nearly 20 years in city management work,



Steven P. Hoffner

primarily in communities with a large college or university presence. He oversees the departments of University Police, Parking and Transportation, and Food Services. He also is responsible for coordinating planning and operations support for all non-academic departments that provide student services.

Prior to his arrival at the University, Hoffner served as city manager of Clayton since April 1992. Previously, he was city manager of Carbondale, Ill., from 1989 to 1992; deputy city manager for finance and administration in Kalamazoo, Mich., from 1985-89; city manager of Petoskey, Mich., from 1980-83; and assistant to the city manager of Winnetka, Ill., from 1979 to 1980.

Hoffner is a Phi Beta Kappa graduate of the University of Illinois at Urbana-Champaign, where he received a bachelor's degree in political science in 1975. He earned a master's degree in public administration in 1976 from The Maxwell School of Citizenship and Public Affairs at Syracuse (N.Y.) University. In 1988, Hoffner completed the Program for Senior Executives in State and Local Government at the John F. Kennedy School of Government at Harvard University.

Assembly Series tackles religion, society — from page 1

Sept. 18: Charles V. Willie, sociologist and professor of education and urban studies at Harvard University's Graduate School of Education, and Kimberle Crenshaw, professor of law at the University of California at Los Angeles, present at 4 p.m. "The Cultural and Legal Meaning of Desegregation: Has It Been Achieved? Can It Be Achieved?"

Sept. 24: Egon Schwarz, Ph.D., the Rose May Distinguished University Professor Emeritus in the Humanities, discusses "Mass Emigration and Intellectual Exile from National Socialism: The Austrian Case," part of the University's Vienna Fest.

Oct. 1: Heidi Hartmann, director of the Institute for Women's Policy Research, gives the Olin Conference keynote address.

Oct. 7: Thomas Trotter, acclaimed British organist, presents a lecture/recital at 7 p.m.

Oct. 8: Buddhist scholar Robert Thurman speaks on "The Politics of Enlightenment."

Oct. 15: Arun Gandhi, advocate of nonviolence and grandson of Mahatma Gandhi, discusses "Nonviolence or Non-

existence: Options for the 21st Century," part of the University's Commemoration of the 50th Anniversary of India's Independence.

Oct. 17: National Science Foundation director Neal Lane at 4 p.m. in May Auditorium presents "The Changing Face of Science."

Oct. 22: Ray Suarez, host of National Public Radio's "Talk of the Nation," speaks on "The Exuberant Rebirth and Premature Death of the American City."

Nov. 5: Michael Berenbaum, president and chief executive officer of the Survivors of the Shoah Visual History Foundation, presents "The Holocaust and Its Remembrance," the annual Holocaust Memorial Lecture.

Nov. 12: Medical sociologist Renee Fox discusses "Medical Uncertainties Revisited."

Nov. 13: Robert Proctor, professor of the history of science at Pennsylvania State University, concludes the fall series with the Thomas Hall Lecture "Science and Medicine in the Service of Nazism," at 4 p.m. in Room 215 Rebstock Hall.

For more information, call (314) 935-5285.

Sports

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

Football team looking to reload in 1997

Although Washington's football squad is returning just 10 of 22 starters from last year's 7-3 squad, high hopes center on a talented senior class that includes several All-America candidates.

Three of those 16 seniors are among the finest players to have worn the red and green at their respective positions — quarterback Thor Larsen, wide receiver Vernon Butler and center Joe El-Etr.

Defensively, the Bears' top returnee is senior Brad Klein, voted a first-team all-University Athletic Association linebacker last year.

Following a final road scrimmage Aug. 30, the Bears open the season against Rhodes College, 7 p.m. Sept. 6.

Volleyball Bears set for winning season

Head coach Teri Clemens will try to keep her defending NCAA Division III champion women's volleyball team among the best in the country despite the annual loss of All-America talent.

But, there is more than enough talent remaining, starting with lone senior Lovey Grider. The offense runs through the hands of junior middle blocker Jennifer Martz aided by junior outside hitter Jenny Cafazza. Junior Meg Vitter takes the reins of the Bear offense as the starting setter.

Washington opens its season Sept. 5-6 in Topeka, Kan., at the Division II-caliber Washburn University Invitational.



Celebrating at the annual retirees luncheon on Aug. 14 at the Whittemore House are (from left) Chancellor Mark S. Wrighton; retirees Phillip Sotir, Doris Quarles and Edith Banks; William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine; and John R. Loya, vice chancellor for human resources.

University honors retirees for their years of service

In her 35 years at the School of Medicine's Clinical Research Center, Doris Quarles has seen a lot come and go — including her boss, William A. Peck, M.D. When Quarles joined the clinic's nursing staff back in 1962, the young Peck, now executive vice chancellor for medical affairs and dean of the medical school, was a fresh-faced resident at the University's teaching hospital.

Three and a half decades later, Peck honored Quarles for her years of service and commitment. "Doris' was one of the first faces I recognized when I returned to the medical school as dean," Peck said. "It was a welcoming sight."

"This is an occasion of both regret and pleasure," he continued, addressing all of those retiring from the medical school. "Regret for the loss of these people who have contributed to making the medical school one of the best of its kind in the world but pleasure for the enjoyment they will have during their retirement."

Quarles was one of about 40 staff retirees from both the Hilltop and Medical campuses for fiscal year 1997 who were recognized at an Aug. 14 luncheon at the Whittemore House. The luncheon was hosted by Chancellor Mark S. Wrighton and John R. Loya, vice chancellor for human resources. Each of the retirees, whose lengths of service ranged from 10 to 43 years, received a commemorative walnut plaque.

Retirees were presented with their awards by the heads of their respective departments. Presenters for the Hilltop Campus retirees were: Shirley K. Baker, vice chancellor for information technology; Lee G. Weeks, vice chancellor for financial operations; Nancy M. Pliske, associate general counsel; and P. Jean Milburn, associate dean for MBA programs at the John M. Olin School of Business.

"Each year the retirees seem to be getting younger, which may just mean that I'm getting older," Wrighton joked in his remarks. "But I believe it also indicates the extent to which you have been able to thrive in an environment that rewards the huge dedication it demands."

While encouraging the "distinguished alums" to enjoy their new-found leisure time, Wrighton also asked that they not forget the University to which they have dedicated so much. "I hope, distinguished friends, that you will return to campus for some of the things that you may not have had as much time for in the past, such as University College, Edison

Theatre and all the other cultural events that Washington University has to offer," he said.

Wrighton concluded his remarks with a promise: "My pledge to you is to make Washington University ever stronger so that you may continue to take pride in your association with us."

For Quarles, who turned 65 the day after the reception, a continued association with the University seems assured. Though retiring from full-time employment, she has been asked to continue her work at the Clinical Research Center.

"The same day I told them I was retiring, they came back and asked if I would be willing to return occasionally on a per diem basis," said a beaming Quarles. "I guess it means they like me."

"I've always enjoyed my work at the clinic, I've always felt really engaged there," she continued. "They always allowed me to continue my education, which you have to do working in research, and I always felt like I was contributing something," Quarles flashed a grin. "Even when it was just my little bit."

In addition to Quarles, the medical school retirees and their years of service are: Winifred Anglin, 16 years; Edith Banks, 30 years; James Barnes, 26 years; Marian Bentz, 15 years; Delores Blockton, 22 years; Darlene Bradley, 18 years; Joyce Carter, 28 years; Jeanne Cavanaugh, 24 years; Alexandra Cole, 26 years; Virginia Colombo, 20 years; Clarence Cooperwood, 10 years; Mary Louise Davis, 27 years; Doris Evans, 25 years; Billy Graham, 10 years; Beverly Greiner, 17 years; Mary Lee Grone, 19 years; Dorothy Lee Kohne, 17 years; Ernestine Love, 25 years; Mary "Maggie" Manzotti, 11 years; Walter Nulty Jr., 17 years; D. Ann Schweiss, 27 years; Rose Marie Smith, 43 years; Phillip Sotir, 39 years; Celia Ann Sutura, 15 years; Diana Lee Tesserau, 11 years; Lorraine Vandersteen, 22 years; and Alma Williams, 10 years.

The Hilltop retirees and their years of service are: Elaine Coe, 15 years; Nadine Crase, 11 years; Mary Ann Ferrara, 10 years; Annie Fields, 21 years; John Foote, 14 years; Dorothy Humphrey, 26 years; Thomas Harig, 34 years; Wallace Jones, 28 years; Sanok "Peggy" Kim, 28 years; Joanne Margherita, 16 years; Thelma Neuman, 21 years; Paul Scheffel, 21 years; and Richard Wurm, 12 years.

— Liam Otten

U.S. News ranks WU 17th among nation's top universities

For the second consecutive year, Washington University is ranked 17th among the top 50 national universities, according to U.S. News and World Report's 11th edition of "America's Best Colleges."

Rice University in Houston tied with Washington University for 17th place.

"We are pleased that U.S. News continues to rank us among the country's top universities," said Benjamin S. Sandler, treasurer and assistant vice chancellor for budget and institutional studies.

"Although rankings of this kind are not the best indicator of a school's underlying quality, particularly in making fine distinctions among individual universities, we value the recognition that a high ranking provides."

To compile the guidebook, U.S. News surveyed some 1,400 four-year schools in areas of academic reputation, retention rates (both graduation and freshman retention), faculty resources, student selectivity, financial resources, value added (a measure of the school's role in the academic success of students) and alumni giving.

WU tied with Harvard as a "best value."

The magazine rated Harvard and Princeton, tied for first place, as the nation's best universities.

In its "best values" rankings — new this year — U.S. News placed Washington University 17th, tied with Harvard and Cornell universities.

"The ranking," said Sandler, "is the result of the University's quality and its steadfast commitment to financial support for undergraduates."

Three variables were used in the new best values ranking: the ratio of quality, as determined by the overall score in the magazine's best colleges survey, to price; the percentage of undergraduates receiving grants that met students' financial needs during the 1996-97 academic year; and the percentage of a school's total costs covered by the average need-based grant to undergraduates.

U.S. News and World Report's "America's Best Colleges" issue is currently available on newsstands. The magazine's "best college values" listing will appear in the Sept. 8 issue.

An expanded directory with more than seven pages of information on each of the 1,400 surveyed schools, along with links to hundreds of colleges, can be found on U.S. News Online at www.usnews.com.

Automated mammogram screening could reduce radiologists' workload —from page 1

size of the clinic and volume of images to process. The expected increase in mammograms could strain the capacity of radiologists to accurately and efficiently diagnose disease.

"If every woman over 40 follows current guidelines, that would be more mammograms than all of the radiologists in the world could handle," said Kwasny. "Radiologists would have to work 24 hours a day, seven days a week to meet the demand."

The new method combines wavelet transforms and artificial neural networks to create a system capable of mathematically "reading" images. Wavelets are sophisticated algorithms that interpret features of an image or other data. Artificial neural networks, simply speaking, are based on calculations and patterned after the human brain's system of firing off billions of neurons through a network of synapses. An artificial neural network typically comprises a series of processors interconnected by a finer network of "synapses" that ultimately analyzes information and decides if that information matches a correct mathematical pattern.

Here's how the Washington University method works. The mammogram

images are digitized and turned into pixels that are sized to a format for the processing of the artificial neural network. The wavelets transform the pixels into representations of fine features of the image, separating them into a mathematical hierarchy, much the way a diagram parses a sentence or a family tree traces lineage. Eventually, the wavelets separate the features of the images into two piles, one the standard, or control, pile, the other the anomalous pile, where disease may lurk.

From there, artificial neural network software developed by Kalman and Kwasny, called LOSRAAM, detects six distinct, recurrent "internal states," or distinctive features, out of the one million to four million pixels in each image. These features are made obvious by a signature clustering of mathematical values, representing each feature. The networks, working in harmony, come into the process at different starting points, each one responding to the digital data and voting "yes" or "no" on what it reads. One overriding network gathers all the votes from the other networks and states a final answer.

"In medicine, you're often advised to get a second opinion, but with this artificial neural network, we try for a third, a

fourth, nine of them all together," Kalman said. "Less than five percent of all screening mammograms indicate that something is wrong, so if a method like this can do at least two-thirds of the screens correctly, you've reduced the

workload of the radiologist by two-thirds."

Reinus said: "It will take a number of years yet to see if this method can be used. ... But the very early results are encouraging." — Tony Fitzpatrick

Campus Watch

The following incidents were reported to the University Police Department from Aug. 18-24. 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.

Aug. 18

9:57 a.m. — Two women reported that a white male who was not wearing clothes drove slowly next to them as they jogged west on Forsyth Boulevard. The man reportedly was driving an older brown sports car, possibly a Trans Am. University Police and Clayton Police were unable to locate the vehicle.

Aug. 19

8:09 p.m. — A student reported that graffiti containing religious and ethnic overtones was scratched in the men's restroom on the sixth floor of Shepley Residence Hall.

Aug. 22

10:07 a.m. — University Police responded to a report of an irate man in January Hall. The man was attempting to enroll in University College and became irate when informed of the status of student loans. He left the area before police arrived.

Aug. 24

9:36 a.m. — University Police towed a vehicle that had been parked in a fire lane on Shepley Drive for several hours.

University Police also responded to one report of an auto accident; two reports of bicycle theft; one report of vandalism; and one report of a fireworks violation.

For The Record

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

Of note

Michael W. Crossman, M.D., Ph.D., assistant professor of pediatrics, received a \$40,000 one-year Basil O'Connor Starter Scholar Research Award from the March of Dimes Association for a project titled "Mechanisms of Intestinal Bile Acid Transport." ...

Philip H. Dybvig, Ph.D., the Boatmen's Bancshares Professor of Banking and Finance, and **William J. Marshall**, Ph.D., adjunct lecturer in finance, were recently selected by the editors of Financial Analysts Journal to receive a 1996 Graham and Dodd Scroll for excellence in financial writing for their paper "Pricing Long Bonds: Pitfalls and Opportunities." The award was one of six conferred by the Association for Investment Management and Research. ...

Patricia Ernst, Ph.D., a fellow in the laboratory of **Stanley J. Korsmeyer**, M.D., professor of pathology and of medicine, was awarded a Runyon-Winchell postdoctoral fellowship from the Cancer Research Fund of the Damon Runyon-Walter Winchell Foundation. Ernst studies the function of the mixed-lineage leukemia gene associated with acute lymphoblastic leukemia in children and acute myeloid leukemias. The gene's protein product is thought to regulate expression of growth-controlling genes, which Ernst also seeks to identify. ...

Mark E. Frisse, M.D., associate professor of medicine and director of the Bernard Becker Medical Library, received the 1997 Ida and George Eliot Prize from the Medical Library Association. Frisse, along with colleagues Robert Braude from Cornell University, Valerie Florance from the University of Rochester and Sherilynne Fuller from the University of Washington, received the prize for a four-part series of articles on library and information science. ...

Scott J. Hultgren, Ph.D., associate professor of molecular microbiology, has received the honorary degree, Doctor of Philosophy Honoris Causa, from Umeå University in Sweden. Hultgren was honored for his "scientific contributions to the university and the rewarding collaboration between your institution and our faculty." Hultgren studies the assembly of the hairs that allow many disease-causing bacteria to invade human tissues. His work is leading to new strategies for fighting infection. ...

Mike M. Mueckler, Ph.D., professor of cell biology and physiology, was one of

two researchers who shared a \$100,000 award from Boehringer Mannheim and the Juvenile Diabetes Foundation International. Mueckler pioneered the identification and characterization of glucose transporter genes that are critical for the regulation of blood sugar levels. His work has led to a better understanding of how insulin acts at the molecular level to increase sugar uptake into cells. ...

Joshua R. Sanes, Ph.D., professor of anatomy and neurobiology, received a three-year \$150,000 McKnight Senior Investigator Award from the McKnight Endowment Fund for Neuroscience in Minneapolis. Sanes studies the development of connections called synapses between nerve and muscle cells. The award will enable him to extend his research to the development of synapses between nerve cells. Such synapses have been implicated in learning and memory. ...

Shalini Shenoy, M.D., instructor of pediatrics, received a \$415,955 five-year grant from the National Cancer Institute for a project titled "Minor Antigens in Bone Marrow Transplantation." ...

The Division of Biology and Biomedical Sciences recently recognized two of its students for outstanding achievements in biomedical research. **Peter Nichol**, M.D., Ph.D., received the 1997 Needleman Award, which is given to a graduate student who has demonstrated outstanding achievements in pharmacology. Graduate student **Jennifer Ostrom Liang** was the recipient of the 1997 Jakschik Award, which is presented to an outstanding female graduate student whose work has focused on metabolic regulation. This award is given during the student's final year of doctoral research.

On assignment

Jonathan D. Gitlin, M.D., associate professor of pediatrics and of pathology, has been selected as a member of the Nutrition Study Section of the Division of Research Grants at the National Institutes of Health. Gitlin will review grant applications, make recommendations on these applications to the appropriate NIH national advisory council or board and survey the status of research in their fields of science. ...

Robert P. Morgan, Ph.D., the Elvera and William Stuckenberg Professor of Technology and Human Affairs in the School of Engineering and Applied Science, will be on leave as an NAE Fellow/Senior Analyst at the National Academy of Engineering in Washington, D.C. His appointment begins Sept. 1 and ends on Aug. 31, 1998. He will be dealing with academic research contributions to indus-

trial sectors and the changing nature of engineering. ...

Tae Sung Park, M.D., the Shi H. Huang Professor of Neurological Surgery and professor of pediatrics and of anatomy and neurobiology, has been selected as a member of the Neurology A Study Section of the Division of Research Grants at the National Institutes of Health (NIH). He will review grant applications, make recommendations on these applications to the appropriate NIH national advisory council or board and survey the status of research in their fields of science.

To press

W.W. Norton recently published the latest book by **Glenn C. Conroy**, Ph.D., professor of anatomy and neurobiology and of anthropology. The book, titled "Reconstructing Human Evolution: A Modern Synthesis," outlines all aspects of the human fossil record — paleoecological, morphological and archaeological — in an effort to better understand the process of human evolution from our

primate ancestors to anatomically modern humans. ...

An article by **John W. Haller**, Ph.D., research assistant professor of psychiatry and assistant professor of radiology, titled "Three-dimensional Hippocampal MR Morphometry with High-dimensional Transformation of a Neuroanatomic Atlas," was published in the February edition of Radiology. The article is a description of the first 3-D method for the automated measurement of the hippocampus, a structure in the human brain associated with memory and such diseases as Alzheimer's, temporal lobe epilepsy and schizophrenia.

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.

Wolf promoted to assistant athletic director

Michael J. Wolf, who has served as Washington University's director of sports information for the past 13 years, has been promoted to assistant athletic director for media relations. Wolf, the University's first full-time sports publicist, will continue to manage the media relations department for the Bears' varsity athletics program.

A 1984 graduate of Quincy (Ill.) University, Wolf is an active member of the College Sports Information Directors of America (CoSIDA). Since 1987, he has helped administer and select student-athletes for the GTE Academic All-America® program, serving as a district and national coordinator. Prior to 1987, he was a member of the CoSIDA Publications Certification Committee for one year.

Wolf's award-winning sports information office has received 88 CoSIDA publication citations since 1985, including 48 "Best in the Nation" awards.

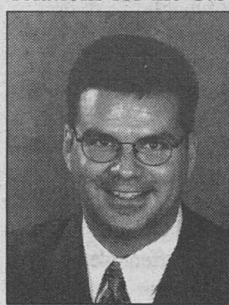
Besides his day-to-day sports information duties at Washington University, Wolf has been a member of the United States Olympic Committee (USOC) media relations staff for several events, including

the 1996 Olympic Games in Atlanta. At the 1996 Games, Wolf handled media relations for the U.S. men's and women's tennis teams.

He also has been a part of USOC staffs at the 1991 and 1994 U.S. Olympic Festivals, held in Los Angeles and St. Louis, respectively, and at the 1995 Pan American Games, which were contested in Mar del Plata and Buenos Aires, Argentina.

In July, Wolf was elected third vice president of the Collegiate Baseball Writers Association. He also is a member of the U.S. Basketball Writers and Football Writers Associations of America.

In St. Louis, Wolf acts as the publicity director for the National Football Foundation and the College Hall of Fame Tom Lombardo Chapter. He also is an honorary advisory committee member for the St. Louis Senior Olympics.



Michael J. Wolf

Campus Authors

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

Hearing the Motet:

Essays on the Motet of the Middle Ages and Renaissance

(Oxford University Press, 1997)

Dolores Pesce, Ph.D., associate professor of music in Arts and Sciences



The motet was unquestionably one of the most important vocal genres from its inception in the late 12th-century Paris through the Counter-Reformation and beyond. Heard in both sacred and secular contexts, the motet of the Middle Ages and Renaissance incorporated a striking wealth of meaning, its verbal textures dense with literary, social, philosophical and religious reference.

In the book "Hearing the Motet," edited by Dolores Pesce, top scholars in the field provide the fullest picture yet of the motet's "music-poetic" nature. Containing 16 essays — including ones by Pesce and Craig Monson, Ph.D., professor of music in Arts and Sciences — the book investigates the virtuosic interplay of music and text that distinguished some of the genre's finest work and examines individual motets and motet repertoires in ways that illuminate their historical and cultural backgrounds.

How were motets heard in their own time? Did the same motet mean different things to different audiences? To explore these questions, the contributors go beyond traditional musicological methods, at times invoking approaches used in recent literary criticism.

The book also draws a valuable new portrait of the motet composer, who emerges as a "reader" of the surrounding culture — a musician who knew liturgical practice as well as biblical literature and its exegetical traditions, who moved in social contexts such as humanist gatherings, who understood numerical symbolism and classical allusion, who wrote subtle *memorie* for patrons, and who found musical models to emulate and distort.

Obituaries

Reimut Wette, professor emeritus of biostatistics

Reimut Wette, D.Sc., professor emeritus of biostatistics at the School of Medicine, died of cancer Aug. 13, 1997, at McKnight Place in St. Louis County. He was 70.

Wette was professor of biostatistics and professor of applied mathematics. In 1966, he founded and was named director of the new Division of Biostatistics in the Department of Preventive Medicine and Public Health. He served in that role until 1980. When Wette retired in 1990, the library of the Division of Biostatistics was named in his honor.

Wette studied the problem-oriented development and application of mathematical-statistical methods for biomedical research, in addition to the mathematical biology of neoplastic growth and radiation response. He was largely responsible for increasing the statistical awareness in clinical research at the medical school.

Born in Mannheim, Germany, on May 12, 1927, he received a master's degree in biology in 1952 and a doctorate in biomathematics in 1955, both from the University of Heidelberg, Germany. He

served on the faculty there until 1961, when he joined the graduate faculty of the University of Texas and was associate professor of biomathematics at the University of Texas M.D. Anderson Hospital and Tumor Institute in Houston.

"Reimut was always available to lend his expertise to colleagues who needed assistance. He was an inspiration to many of us, both professionally and personally," said J. Philip Miller, A.B., professor of biostatistics and Wette's colleague for many years.

Wette was a member of numerous professional organizations, including the American Association for the Advancement of Science, the American Institute of Biological Sciences, and the American Statistical Association.

A memorial service was held Aug. 14 at the home of Wette's son, Dean.

Among the survivors are two daughters, Helen Lewis of Los Angeles, Calif., and Hildegard Wette of Seattle, Wash.; and three sons, Dean Wette of St. Louis, Matthew Wette of Los Angeles, Calif., and Gilbert Wette of Boulder, Colo.

Opportunities & personnel news

Washington University's policy on sexual harassment

The following is Washington University's policy on sexual harassment. In italics is a modification to the policy that was approved by the University Senate in April.

I. INTRODUCTION AND POLICY STATEMENT

Washington University is committed to having a positive learning and working environment for its students, faculty and staff and will not tolerate sexual harassment.

Sexual harassment is an attack on the dignity of individuals and the integrity of the University as an institution of learning. Academic freedom can exist only when every person is free to pursue ideas in a non-threatening, non-coercive atmosphere of mutual respect. Sexual harassment is reprehensible and threatening to the careers, educational experience and well-being of all members of our community.

Sexual harassment is a form of discrimination that violates University policy. It is also illegal under state and federal law.

This policy applies to all members of the Washington University community. It allocates responsibilities for helping to ensure that University policy is fairly applied, explains the process by which complaints of sexual harassment may be brought forward and provides sanctions for sexual harassment, which may range from reprimands to termination or dismissal, depending upon the severity of the offense. If you believe you have been sexually harassed, Sections IV and V describe options about what you can do and where you can get help. If you believe you have been falsely accused of sexual harassment, the procedures set out below are also available to you. Those charged with implementation of this Policy will, whenever appropriate, encourage and assist those who believe they may have been sexually harassed to pursue the assorted informal means outlined in Section IV below for securing the cessation of unwelcome and offensive conduct.

II. WHAT IS SEXUAL HARASSMENT?

For the purposes of this statement, Washington University has adapted the Equal Employment Opportunity Commission (EEOC) definition of sexual harassment for an academic community: Sexual harassment is defined as any unwelcome sexual advance, request for sexual favor or other unwelcome verbal or physical conduct of a sexual nature, whether committed on or off campus, when:

(1) submission to such conduct is made, either explicitly or implicitly, a term or condition of an individual's employment or academic advancement;

(2) submission to or rejection of such conduct by an individual is used as the basis for employment or academic decisions or assessments affecting an individual; or

(3) such conduct has the purpose or effect of unreasonably interfering with an individual's work or educational performance or creating an intimidating or hostile environment for work or learning. Such conduct will typically be directed against a particular individual or individuals and will either be abusive or severely humiliating or will persist despite the objection of the person targeted by the speech or conduct.

Sexual harassment includes but is not limited to situations where one person has authority over another. In such situations, sexual harassment is particularly serious because it may unfairly exploit the power inherent in a faculty member's or supervisor's position.

Sexual harassment can be verbal, visual, physical or communicated in writing or electronically. Some conduct obviously constitutes sexual harassment — such as a threat that a grade or promotion will depend on submission to sexual advance. But whether particular conduct constitutes sexual harassment will often depend upon the specific context of the situation, including the participants' reasonable understanding of the situation, their past dealings with each other, the nature of their professional relationship (e.g., supervisor-subordinate, colleague, etc.) and the specific setting. The inquiry can be particularly complex in an academic community, where the free and open exchange of ideas and viewpoints preserved by the concept of academic freedom may sometimes prove distasteful, disturbing or offensive to some.

Examples of conduct which may constitute sexual harassment include but are not limited to:

- requests for sexual favors
- hugging, rubbing, touching, patting, pinching or brushing another's body
- inappropriate whistling or staring
- veiled suggestions of sexual activities
- requests for private meetings outside of class or business hours for other than legitimate mentoring purposes

- use in the classroom of sexual jokes, stories or images in no way germane to the subject of the class

- remarks about a person's body or sexual relationships, activities or experience
- use of inappropriate body images to advertise events

Members of the University community can expect to be free from sexual harassment and thus all members of the University community should guard against it. The fact that someone did not intend to sexually harass an individual is generally not considered a sufficient defense to a complaint of sexual harassment, although the reasonableness or the accused's perceptions may be considered. In most cases, it is the effect and characteristics of the behavior on the complainant and whether a reasonable person similarly situated would find the conduct offensive that determine whether the behavior constitutes sexual harassment.

III. CONFIDENTIALITY

The University will strive to protect, to the greatest extent possible, the confidentiality of persons reporting harassment and of those accused of harassment. Because the University has an obligation to address sexual harassment, however, the University cannot guarantee complete confidentiality where it would conflict with the University's obligation to investigate meaningfully or, where warranted, take corrective action. Even when some disclosure of the University's information or sources is necessary, it will be limited to the extent possible. The University will, to the extent permitted by law, keep confidential all records of complaints, responses and investigations. The records maintained by the Sexual Harassment Response Coordinator shall be available only to the Coordinator and, to the extent necessary, to administrators and other supervisors charged with responding to allegations of harassment. Allegations of sexual harassment shall not be placed in student records or personnel files unless, after appropriate investigation, such allegations have been sustained. Records of allegations maintained by the Coordinator which do not lead to formal hearings or personnel actions will be discarded after five years unless there are additional, more recent complaints against the same person. *Any records maintained by the Coordinator concerning an allegation about which an accused person was not given reasonably timely notice and an opportunity to respond shall not be used to justify or enhance a sanction, other than an oral or written warning, imposed for a different instance of harassment.*

If you want to discuss possible harassment in a more confidential setting or clarify your feelings about whether and how you wish to proceed, you may want to consult a social worker, therapist or member of the clergy, who is permitted, by law, to assure greater confidentiality. Clergy and counseling resources on campus are listed in Bearings, Ternion and Safety and Security on the Hilltop Campus. In addition, any member of the University community may contact the Student Counseling Services at 935-5980 for a confidential discussion and, if desired, referral to off-campus resources.

IV. SEEKING ADVICE; MAKING A COMPLAINT

If you believe that you have been sexually harassed, you have a number of response options, both formal and informal. Some people may wish to pursue informal means instead of or before making a formal complaint; others will not. If an informal procedure is ineffective, the formal procedures will remain open to you. You should select the route you feel most appropriate for your circumstances. However you wish to proceed, you may consult at any time with the Hilltop or Medical Center Sexual Harassment Response Coordinator (listed in the Appendix), whose responsibilities include assisting students, faculty and staff with sexual harassment issues, be they general or specific, formal or informal. You may wish to work with the Coordinator to select an approach.

A. Informal Procedures

I. If you feel comfortable dealing with the situation without assistance, you can:

A. Clearly say "no" to the person whose behavior is unwelcome.

B. Communicate either orally or in writing with the person whose behavior is unwelcome. The most useful communication will have three parts:

A factual description of the incident(s) including date, time, place and specific action.

A description of the writer's feelings, including any consequences of the incident.

A request that the conduct cease.

Frequently, such a communication will cause the unwelcome behavior to stop, particularly where the person may not be aware that the conduct is unwelcome or offensive.

II. If you would like to proceed informally, but with the assistance of someone else, you may:

A. Ask the person's supervisor, e.g., department chair, dean, director, housing office representative, academic advisor or resident advisor, to speak to the person whose behavior was unwelcome. The purpose of such conversations is the cessation of unwelcome behavior.

B. Consult with the Coordinator or one of the Sexual Harassment Response Advisors listed in the Appendix and specifically charged with responding to sexual harassment inquiries and complaints.

These individuals are thoroughly familiar with University policy on sexual harassment and are available to consult with victims of sexual harassment, those charged with sexual harassment, witnesses and supervisors of parties to a complaint. They can provide information about informal actions that might remedy the situation and discuss University policy on sexual harassment and procedures for resolving complaints.

B. Formal Procedures

Whether or not you have attempted to resolve a sexual harassment claim through informal means, you may initiate a formal sexual harassment grievance proceeding by filing a written complaint. This process may lead to a formal hearing at which evidence will be considered and witnesses heard. If this is the course you wish to take, the Coordinator can assist you in filing a complaint.

Complaints, prepared with or without the assistance of the Coordinator, can be filed with the following Committees, with a copy to the Coordinator for your campus:

Complaints against faculty or staff:

Faculty and Administrative Affirmative Action Committee

(complaints by faculty and administrators)

Title IX Grievance Committee

(complaints by students)

Human Resources Advisory Committee

(complaints by staff)

All of these committees may be contacted:

c/o Office of Human Resources
North Brookings Hall, Room 126
Campus Box 1184
935-5990

Hearing procedures are set out in the Washington University Discrimination and Sexual Harassment Hearing Procedures. These procedures may be obtained from the Office of Human Resources or from any Sexual Harassment Response Coordinator or Advisor.

Complaints against students or student groups:

Office of the Judicial Administrator

Women's Building, Room B2

Campus Box 1136/935-4062

Hearing procedures are set out in the University Judicial Code, found in Bearings and Washington University Faculty Information. These procedures may also be obtained from the University Judicial Administrator or from the Sexual Harassment Response Coordinators or Advisors.

Whether or not you choose to file a complaint, the University may be required, or may otherwise deem it necessary and protective of the academic community, to commence its own investigation.

V. PROTECTION OF RIGHTS

The University will not tolerate retaliation or discrimination against persons who report or charge sexual harassment or against those who testify, assist or participate in any investigation, proceeding or hearing involving a complaint of sexual harassment. In this context, retaliation means speech or conduct that adversely affects another's terms or conditions of employment or education and is motivated by an intent to harm the targeted person because of his or her participation in the filing or investigation of an allegation of sexual harassment. Any such retaliation — or any encouragement of another to retaliate — is a serious violation of University policy and law, independent of whether the particular claim of sexual harassment is substantiated. If you believe you have been subjected to retaliation in violation of this rule, you may use the procedures described above to complain and seek redress.

The University seeks to protect the rights of all persons, accusers and accused, to fair procedures. Accusations of sexual harassment typically have injurious far-reaching effects on the careers and lives of accused individuals. Allegations of sexual harassment must be made in good faith and not out of malice. Knowingly making a false or frivolous allegation of sexual harassment, whether in a formal or informal context, will be treated as a serious offense under this policy and, where it applies, the University Judicial Code. If you believe you have been falsely accused of sexual harassment you may use the procedures of this policy or the

University Judicial Code, where applicable, to seek redress. See Section IV.

VI. OBLIGATION OF VIGILANCE AND REPORTING

The University can respond to specific instances and allegations of harassment only if it is aware of them. The University therefore encourages anyone who believes that he or she has experienced sexual harassment to promptly come forward with inquiries, reports or complaints and to seek assistance from the University. In addition, any University employee who becomes aware of instances or allegations of sexual harassment by or against a person under his or her supervisory authority must report it to those charged with responding to such allegations and reports: the appropriate dean, director or department head or other similar administrator or to the Sexual Harassment Response Coordinator or one of the Advisors. It shall be the responsibility of these individuals to respond to allegations and reports of sexual harassment or refer them to other University officials for such response.

Any dean, director or department head or other similar administrator who becomes aware of information indicating a significant likelihood of sexual harassment must report such information to the Sexual Harassment Response Coordinator for the appropriate campus. These administrators must respond not only when they receive a specific complaint or report alleging improper activity, but also when such matters come to their attention informally. Unconfirmed or disputed allegations should be clearly labeled as such and reports should indicate any steps already taken to investigate or otherwise respond. Administrators may wish to consult with the Coordinator or any of the Advisors prior to investigating or otherwise responding to any situation involving alleged harassment.

VII. POSSIBLE SANCTIONS

Possible sanctions for a person found guilty of behavior in violation of this policy include but are not limited to the following:

- oral or written reprimand, placed in the personnel file
- required attendance at a sexual harassment sensitivity program
- an apology to the victim
- oral or written warning
- loss of salary or benefit, such as sabbatical or research or travel funding
- transfer or change of job, class or residential assignment or location (i.e., removing the person from being in a position to retaliate or further harass the victim).

- fine
- demotion
- suspension, probation, termination, dismissal or expulsion

While counseling is not considered a sanction, it may be offered or required in combination with sanctions. Where alcohol is involved in the sexual harassment, such counseling may include an alcohol abuse program.

If students or student groups are guilty of sexual harassment any of the sanctions set forth in the University Judicial Code may also be invoked.

VIII. EDUCATION

The best way to deal with sexual harassment is to prevent it. Education is essential to eliminating sexual harassment. Washington University has developed an ongoing training program. Please call a Sexual Harassment Response Coordinator or Advisor to find out more about these programs, what sexual harassment is, how to respond to it and what to do when someone asks for advice about sexual harassment.

Approved by the Washington University Senate Council, October 19, 1995.

Approved by the Washington University Senate, April 22, 1996. Revision approved by the Washington University Senate, April 28, 1997.

(This policy supersedes prior University Policies on Sexual Harassment.)

Appendix: Sexual Harassment Coordinators and Advisors (as of April 1, 1997)

Hilltop Campus

Coordinator: Ann B. Prenatt 935-8046

Advisers: Kathy Steiner-Lang (complaints by students and others) 935-5910

Richard Diemer (complaints by faculty and others) 935-4237

Pamela Lokken (complaints by staff and others) 935-5752

Medical Campus

Coordinator: Denise McCartney 362-1936

Advisers: Dr. Leslie Kahl (complaints by students and others) 362-7481

Judy Mahoney (complaints by faculty, staff and others) 362-4900

Laurel Taylor (complaints by staff and others) 362-7198