Nine professors appointed arts and sciences chairs

Nine professors have been appointed new chairs of departments, committees and programs within the College of Arts and Sciences.

Henry Berger, Ph.D., associate professor of history, is acting chair of the Jewish and Near Eastern Studies Program for the 1995-96 academic year. Berger is filling in for Marc Sapirstein, Ph.D., program chair and Gloria M. Goldstein Professor of Jewish History and Thought. Sapirstein is on a one-year leave as a research fellow at the Center for Judaic Studies at the University of Pennsylvania.

Berger, a member of the faculty since 1970, received a doctoral degree in American history from the University of Wisconsin in 1966. He specializes in American foreign policy, with particular interest in U.S. relations with the Middle East and Latin America. He also co-teaches a seminar on American involvement in the Vietnam War.

Arlene Stiffman, a team of researchers at the National Institute of Mental Health (NIMH), reported extremely high rates of exposure to violence:

- Only 33 percent said they had not engaged in any violent behavior.
- 25 percent had been physically cruel to someone.
- 33 percent had used a weapon in a fight.
- 50 percent had been in a serious physical fight.
- 10 percent had been arrested/jailed for violent behavior.
- Only 33 percent said they had not engaged in any violent behavior.

Many of the same teens who reported violence in their neighborhoods also reported that they themselves had engaged in various violent behaviors:

- 25 percent had heard or seen a shooting.
- 50 percent had seen a killing or serious beating.
- 50 percent reported that murders occur in their neighborhood.
- 39 percent had had a friend beaten or killed.
- 25 percent reported that teachers at their school had been injured by students.
- Only 8 percent reported no exposure to violence.

Policy makers argue whether make-believe violence in movies and television is harmful children, a Washington University study has found that a bigger behavioral influence may be the real-life violence that many inner-city teens face daily in their homes, schools and neighborhoods.

"Violent teens live in a war zone and behavior that way," said Arlene Stiffman, Ph.D., an associate professor at the George Warren Brown School of Social Work. "Our study demonstrates a direct link between teenagers' exposure to violence and their own violent behaviors. The more violence that the youths had been exposed to, the more likely they were to be violent themselves, to misuse drugs and alcohol and to lose hope for the future."

Stiffman and a team of researchers at Washington University will light their path through life. After his talk, all the lightsticks, novelty items that glow in the dark. Pictured above (from left) are Sheila Gordon of Hillsdale, N.J., Daniel Hwang of Morton Grove, Ill., and Cheryl Spinner of East Brunswick, N.J., showing off their new lightsticks.

A war zone

Study finds inner-city teens influenced by real-life violence

While policymakers argue whether make-believe violence in movies and television is harmful to children, a Washington University study has found that a bigger behavioral influence may be the real-life violence that many inner-city teens face daily in their homes, schools and neighborhoods.

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Author to lecture, join in informal discussion

Scholar and award-winning author Stephen Jay Gould will open the fall Assembly Series at 11 a.m. Wednesday, Aug. 30, with a lecture titled "Evolution and Human Equality." The lecture will take place in Graham Chapel. An informal discussion with the author is scheduled at 2 p.m. in Lambert Lounge, Room 303 Mallinckrodt Center. Both the lecture and discussion are free and open to the public.

Gould has taught geology, biology and the history of science at Harvard University since 1967 when he was appointed assistant professor of geology and assistant curator of invertebrate paleontology. He is now Alexander Agassiz Professor of Zoology, position he has held since 1982, and professor of geology and curator of invertebrate paleontology at the Museum of Comparative Zoology.

Researchers find protein plays role in potentially fatal aneurysms

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school of Medicine researchers have identified a protein they suspect plays a key role in weakening the abdomen's major artery, leaving the vessel prone to rupture. The finding may lead to ways to block the protein and prevent the development of potentially fatal abdominal aortic aneurysms.

An aneurysm is a ballooning of an artery that often, if left untreated, becomes weakened and stretched. Abdominal aortic aneurysms develop in the abdomen and are world-renowned for the largest artery, the aorta. They usually develop painlessly and can burst without warning, causing death within minutes.

In a recent issue of the Journal of Clinical Investigation, the researchers report that a protein that breaks down elastic tissue, a major strength substance, is elevated in abdominal aortic aneurysm tissue in patients. The finding suggests that the protein, an enzyme called 92-kilodalton (kD) gelatinase, is involved in the development of abdominal aortic aneurysms and may be necessary for their growth, said Robert Thompson, M.D., chair of the Department of Ophthalmology and Visual Sciences, who led the study.

As an aneurysm grows, its risk of rupture increases. If the vessel bursts, the overall mortality rate is 95 percent. Emergency surgery to repair a ruptured aneurysm still carries a significant mortality rate — 50 to 70 percent.

The recommended treatment for aneurysms more than 2.5 inches in length is elective surgery, which has a mortality rate of less than 5 percent if the procedure is performed in a major medical center, Thompson said.

Evidence that the enzyme, 92-kD gelatinase, may cause the weakening in the arterial wall that leads to the growth of abdominal aortic aneurysms,” Thompson said.

The enzyme also plays a role in the development of aneurysms in other major blood vessels, the researchers said.

In a preliminary follow-up study, Thompson and his co-workers have found that certain drugs prevent the development of abdominal aortic aneurysms in rats by blocking the production of 92-kD gelatinase.

To test the drugs in patients who eventually will need surgery to repair an enlarging aneurysm, about 15,000 Americans die each year from ruptured abdominal aortic aneurysms.

As an aneurysm grows, their risk of rupture increases. If the vessel bursts, the overall mortality rate is 95 percent. Emergency surgery to repair a ruptured aneurysm still carries a significant mortality rate — 50 to 70 percent.

The recommended treatment for aneurysms more than 2.5 inches in length is elective surgery, which has a mortality rate of less than 5 percent if the procedure is performed in a major medical center, Thompson said.

Patients most at risk for aneurysm disease are those over 65 with a history of cigarette smoking. Because most patients don't develop symptoms of an aneurysm until it is on the verge of rupturing, understanding how the disease develops may lead to treatments that can prevent small aneurysms from enlarging.

Symptoms of an abdominal aneurysm may include stomach or back pain, or a pulsating abdomen when the patient lies on his back.

Thompson and William Parks, Ph.D., an associate professor of medicine and cell biology, and their co-workers studied 92-kD gelatinase because it already was known to degrade elastin. Their earlier research and studies by other investigators also had suggested that the enzyme may play a role in the development of abdominal aortic aneurysms.

In the current study, the researchers took samples of abdominal aortic aneurysm tissue from patients undergoing surgery to repair the defect. They compared them with abdominal aortic tissue samples from normal patients and patients with atherosclerosis. The latter group was included to determine whether 92-kD gelatinase also is elevated in atherosclerotic disease.

Atherosclerosis — or clogging of the arteries — is known to be associated with the development of aortic aneurysms.

The researchers found 92-kD gelatinase in elevated levels in aneurysm tissue compared with atherosclerotic tissue from other patients. Levels of 92-kD gelatinase were two-fold higher in the aneurysm tissue compared with atherosclerotic tissue and 10-fold higher compared with the normal aortic tissue.

"This study raises our level of confidence that this enzyme is important in aneurysms, but probably not that necessary for the development of atherosclerosis," Thompson said.

When researchers looked for evidence of the enzyme under the microscope, they found no traces of it in normal tissue and only sporadic evidence of it in some of the atherosclerotic tissue samples. In all the aneurysm specimens, however, the enzyme was readily recognized.

The researchers also traced the secretion of 92-kD gelatinase to macrophages, inflammatory cells typically found in aortic aneurysm tissue. The macrophages also produce the messenger RNA that directs the production of the 92-kD gelatinase.

Taken together, these results suggest that chronic macrophage production of 92-kD gelatinase significantly contributes to the breakdown of elastin in abdominal aortic aneurysms, Thompson said.

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Participants needed for cancer study

The Division of Urologic Surgery, in cooperation with the National Cancer Institute, is seeking participants for a prostate, lung, colorectal and ovarian (PLCO) cancer study.

Researchers are looking for men 65 to 74-year-olds who do not have cancer of the prostate, lung, rectum or ovaries and who are not taking the drugs Proscar or Tamoxifen. Participants must be able to come in for free annual screening tests and provide health information.

The primary goal of the PLCO study is to learn whether screening tests are effective at diagnosing these cancers at an early stage, and if so, whether treatment saves or prolongs a person's life. For information, call 212-752-7576.

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Bernard Becker Receives Keller Prize and Weisenfeld Award

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ernard Becker, M.D., professor and chairman of the Department of Ophthalmology and Visual Sciences at Washington University School of Medicine, received two prestigious awards at the recent annual meeting of the Association for Research in Vision and Ophthalmology (ARVO).

Becker is the second recipient of the Helen Keller Prize for Vision Research, which was established in 1994. The prize recognizes "research excellence as demonstrated by a highly significant contribution to vision science during the course of a career."

"I am honored to receive this prestigious award," Becker said. "Helen Keller's family and admirers have developed a project for which other support is not available, and the Helen Keller Prize is designed to promote the clinical practice of ophthalmology."

Becker received the Helen Keller Prize for his research and teaching. Becker trained at the University of California School of Medicine in 1953 to 1988. During that time, the department became internationally known for exceptional research and teaching. Becker trained many of the recent leaders of the American Board of Ophthalmology than any other person.

He was the first editor-in-chief of the Journal of Investigative Ophthalmology.

On their first day of medical school, students (from left) Jennifer Quartarolo, Jon Oda and Ikenna Okereke discuss bone structure with Glenn Conroy, Ph.D., professor of anatomy and neurobiology, in human gross anatomy class. Courses started Aug. 14 for first- and second-year medical students.

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Cancer research grants now available

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pplications now are being accepted for the Washington University Institutional Research Grant from the American Cancer Society. These applications, which are accepted twice a year, are due Oct. 15.

The purpose of the awards is to support a project for which other support is not available. The proposals must have some direct or indirect relevance to clinical or laboratory aspects of cancer.

Only instructors and assistant professors are eligible. Individuals who have previously received this award, and individuals who already have major National Institutes of Health, National Science Foundation, American Cancer Society or Veteran's Administration funding are discouraged from applying. Awards do not exceed $15,000 for one year by the American Cancer Society, and funding renewals are not permitted.

For application forms and guidelines, call Kristi Bullock at 362-5210.
ver the last few years, St. Louis has experi-
enced a burst of architectural activity down-
town. The city's new stadium, public architecture has been surging. What
most people in the Washington University
community may not realize is that much of this design
activity was overseen by Donald Royse, Ph.D., professor of
architecture.
From 1996-93, Royse was on leave from the School of Architecture to serve as the first director of urban design for the city of St. Louis. As
director of urban design, Royse played a major role in establishing the most important things Chris Grace did," said Brady.
"He has a clear and strong sense of the importance of design to the future of their cities. After attending
royse's role, said Christopher Grace, former executive director of St. Louis Development Corporation.

The urban design department was established by then-Mayor Vincent Schoemehl, Jr., in 1973, because of what he learned when he attended The National Mayors' Institute sponsored by the National Endowment for the Arts, was
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lation with graduate students Georgia Petropoulos and Evan Bronstein. (Washington University's School of Architecture, was
cated by the changing role of architecture.

Issues of things like computer technology and information
systems are about to go in to. So you have to make this balance
in one of the most exciting chapters of St. Louis' develop-
ment. Royse noted that, while architects always engage in
the lead in design issues

"With Don at the helm, the design department took the lead in planning and design issues," said Kathleen Bray, formerly chief of staff at St. Louis Development Corpo-
ration and now vice president for facilities management and civic affairs at St. Louis University. "He took on lots of tough projects, but he was very non-confrontational
and persuasive in working with city officials to balance the needs of both University City and Clayton were involved, as
were members of Citizens for Modern Transit. A second studio, completed last spring, focused on the multimodal
transportation port that Royse himself worked on during
his tenure with the city.

Eagleton's partner and former student, said Royse has a reputation among students for coming up
deeply interested in good design, but if you do only that
big problem.

"As architecture becomes more and more interdiscipli-
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"Hey this sounds just about right." At Rasmussen's drafting table Royse
developed his strong interest in urban design, which brought him back to the
city he spent his summers in Chicago. When
Royse spent his summer vacations in Chicago. When
Royse graduated from Washington University in 1968 to chair the school's
Designing single-family homes

"He made urban planning and
design a more reasonable
and understandable enterprise.
He had a lot of fans." — Christopher Grace

Donald Royse, Ph.D., professor of architecture, discusses multimodal transpor-
ration with graduate students Georgia Petropoulos and Evan Bronstein.

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"He made urban planning and
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Royse designs single-family homes. Royse, who joined Washington University in 1968 to chair the school's
Master's in Architecture and Urban Design program, has been a principal in a succession of small architectural firms for the last 20 years.

Designing single-family homes

He now is a principal of Royse-Eagleton, which he
founded six years ago with former student Heidi Eagleton. Eagleton, a former lawyer who graduated from the School of Architecture in 1981, had decided she
wanted to be in a two-person firm. "Don was my first
choice for partner," Eagleton said of the day she broached
the idea in 1980. "I thought it was a good idea, and I think the hardest thing is finding where that balance
specifics, which required some prioritizing, said Royse.
"It is critical that everyone think about the whole
point is." —

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"It's hard enough in the short period students are here to train them to be good urban designers, much less good
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that. I have a real conflict myself, because I am really
interested in design education. It's a real challenge.
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**Calendar**

**Aug. 24—Sept. 2**

**Exhibitions**

"The Quest of Senses: Celebrating the Becker Rare Book Collection in Ophthalmology," which at times featured eight specialists, including basic science and the visual sciences from four centuries. Through Oct. 26. Bernard Becker Medical Library, 660 S. Euclid Ave. Hours: 9 a.m.-9 p.m. weekdays; 1-5 p.m. weekends. 362-4239.

**Lectures**

**Thursday, Aug. 24**

4 p.m. Chemistry seminar. "Transport and Other Physico-Chemical Properties of Polyamino Acids," Benjamin R. Mattes, research scientist, Los Alamos National Laboratory, Los Alamos, N.M. Room 311 McMillen

**Monday, Aug. 28**

Noon. Commons. Neurobiology and molecular neurosurgery lecture. "Production of a Mouse Model of Alzheimer's Disease," Philip Lyman, professor, Division of Laboratory of Developmental Neurobiology, The Rockefeller U., New York, Schwab Aud., First Floor Mater-

**Wednesday, Aug. 30**


**Thursday, Aug. 31**

4 p.m. Visual science. "Energy and Environment, Photoreceptor Separation and a Trial for Artificial Photosynthetic Reaction Center," Kazuhiro Maruyama, Graduate Student, Kyoto, Japan. Room 311 McMillen Lab. (Coffee: 3:40 p.m. outside Room 311.) 935-5250.

**Friday, Sept. 1**

8 a.m. Pathology seminar. "Cellular Mechanisms and Cell Metastasis to Bone," Gregory R. Mundis, prof., and head, Division of Cellular and Molecular Pathology and Metabolism, U. of Texas Health Science Center, San Antonio. The Brower Room, St. Louis Jewish Hospital, 434-4461.

**Saturday, Aug. 26**

1-3 p.m. Music auditions. WU Symphony Orchestra and Wind Ensemble will hold winds, brass and percussion auditions with Ty Keough

**Music**

**Lectures**

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**Women's soccer welcomes 'spectacular' freshmen**

A
fter closing out the 1994 season with a 5-2-1 surge, the Washi-

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Optimism is rampant after graduating just one player from last year's green-

through a-G squad. However, the one graduate — the versatile Laura Miller — will be tough to replace. Miller, a first-

all-UAA (University Athletic Association) honoree, left as the program's third on the Bears' all-time single-season chart.

Other standouts from that second-year class are forwards Terri Grosso (Chatham, N.J.) and Kate Wajntrub (Amherst, N.Y.), and midfielders Lisa Chokal (Buffalo Grove, Ill.) and Becky Harding (Indianapolis). The foursome combined for nine goals and eight assists.

Strong veteran leadership will come from senior goalkeeper Jennifer Donahoe (Dallas), a former all-region pick, and backs Collins O'Brien (Cincinnati) and Angela Broek (St. Louis). Donahoe, who added the 1.29 goals against average a year ago, tied a Washington University record with nine shutouts and broke her own mark by bagging 128 saves. O'Brien, who has the talent and tenacity to be an All-American, has fought through two injury-plagued seasons. Senior Hannah Sullivan (Cabin John, Md.), who also endured injury in '94, should provide a strong presence in the midfield. Sullivan played at Villanova University (Villanova, Pa.) before trans-

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The university staff members, a retirement is a time to celebrate the contributions made by those who have served the institution. This event typically includes a brief speech from someone associated with the organization, and then the group goes to the Whittemore House for a luncheon. In this specific instance, the event was held on August 15, and the speakers were the University faculty member since 1962, and the University faculty since 1982. The event was also held in honor of those who have contributed to the university in many capacities. The university staff has received numerous fellowships and teaching awards, and some have served as department chairs. The university has a long history of academic excellence, and its contributions to society are numerous.

The atmosphere at the event was described as joyful and celebratory. The attendees were grateful for the opportunities they had to contribute to the university and its mission. The university has a well-deserved reputation for academic excellence, and its contributions to society are numerous. The event was a fitting celebration of the contributions made by those who have served the university.

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Students, officials pleased with Campus Bookstore redesign

Stu4ents purchasing books and supplies for the upcoming semest- er were given the rundown on the new Campus Bookstore in Mallicrondt Cen- ter a "thumbs-up." In addition to physical makeup, the Campus Bookstore now rivals major bookstores in the St. Louis area, said Bob Kallemeier, the project manager in the Department of Facilities Planning and Management who supervised the renovation. The Campus Bookstore boasts a large entrance featuring floor-to-ceiling glass windows and a marble floor on the main level, hard- wood floors mixed with wood throughout the store, colorful furnishings and an overall wide-open feel. All coursebooks are sold on the store's lower level, with items such as artwork supplies, food, maps and souvenirs at the back of the store. "It's like this," said Myke Witbraad, a newly arrived graduate student. "It's brighter, has more of a feel to it. The money was well spent."

The official grand opening of the Mallicrondt Center Bookstore, featuring prize drawings, will be held at 11 a.m. Tuesday, Aug. 29.

"I really like it," said Yukino Washizu, a junior earth and planetary sciences major, browsing in the renovated Campus Bookstore. "I can buy Washington University magazines and general books sold on the main floor. In addition, the lower level of Mallicrondt now features a new dining area that seats about 600 people, and a food court, which includes vendors of deli sandwiches (Subway), chicken (Chick-Fil-A) and Marriott-run Asian, Mexican and pizza specialty food areas. The new Hilltop Cafe (the former deli), located on Mallicrondt's main floor, now features a bakery, gourmet coffee shop and Freshies, a vendor of frozen yogurt and hard-pack ice cream. A story on the cafe and food court will run in the Record following the official grand opening.

The official grand opening of the Mallicrondt Center Food Court will be held at 11 a.m. on Tuesday, Aug. 29. Chancellor Mark S. Wrighton, Ph.D., will serve as officiant during the ceremony. Following the event, the University community will vie for prizes, which will include a $250 gift certificate from the Campus Bookstore and a free night's stay with free parking and breakfast at the Pavillon Marriott in downtown St. Louis.

Officials are redesigning the new facilities a year ago. Construction in- volving approximately 15 outside contractors began last spring and ended nearly three months later. Besides the redesign, two new restrooms, one each for men and women, were installed in the dining area outside the store's coursebook section. The new restrooms, along with the existing ones near Schonberg Gallery on Mallicrondt's lower level, have been updated to com- ply with the Americans With Disabili- ties Act. "Mallicrondt's center now has twice as many bathroom facilities," said Kallemeier. Additionally, workers painted and refurbished the Mallicrondt elevator. Because walls around the elevator were rearranged, the elevator now is more accessible to the general public. The elevator is housed near the food court and dining room on the lower level, across from the upstairs food court on the main level and near Botstein's Bank on the upper level.

"We did more than redesign the book- store," said Kallemeier. "We did a lot of refurbishing. We looked around Mallicrondt Center and touched up what we could be effective," he added, noting that workers installed tile and new carpeting throughout Schonberg Gallery and retiled the women's restroom near the gallery.

"The entire project was very complex, with thousands of little details," said Kallemeier. "We completed it on time and under budget. There was much coordi- nation and cooperation by all involved. The key was teamwork and advanced planning. From our standpoint, it was a real success."

— Carolyn Sanford

Stricter law enforcement not enough to curb teen violence, researcher contends — from page 1

Teenager will engage in violent behavior. "Youths who are involved in violence and have a history of school problems may have been the most victimized themselves," Stiffman said. "They are victims of bullying and may have the future, feel suicidal, and do not know how to escape from their violence. They can be violent themselves or numb themselves with drugs or alcohol. The victimization is all over the place.

More than 25 percent of those surveyed reported that they themselves had been attacked or beaten and 20 percent said that they had been hurt or threatened with physical violence in their own homes. In addition to demonstrating a strong relation- ship between exposure to high levels of violence and a teen's likelihood of being violent, the study also linked exposure to violence with suicidal tendencies.

Almost one-third of the youth surveyed were engaged in at least one sexual risk behav- ior in the last six months, and nearly one- quarter reported multiple sexual partners in the same period. Two-thirds had experi- enced sexual intercourse. Stiffman said. Stiffman's findings also shed light on some popular misconceptions about the source of individual and social risk. For instance, for that black males are no more likely to be involved in violence themselves, although males as a group are twice as likely as females to be violent.

The study also is useful for a re- search project designed to assess whether teenagers who are referred for school services are being met by existing agencies and programs.

Few mental health resources

"We can definitely find that existing systems are not identifying the kids' needs," Stiffman said. "Because most service providers don't adequately iden- tify the mental health needs of teens, they are not providing these services. Those providers who do know about the mental health problems of teen clients tell us that there are few resources to provide ser- vices. As a result, they don't bother to look for problems.

Stiffman and colleagues identi- fied a wide range of serious mental health problems in the teens they sur-veyed, including drug or alcohol abuse, conduct disorder, post- traumatic stress, depression and suicidal tendencies. "Less than half of the teens we identified as having mental health problems had received any services for these problems," Stiffman said. The study generated strong interest among Stiffman's peers during presenta- tions she made in spring 1993 at meetings of the Council on Social Work Education in San Jose, Calif., and at the Interna- tional Association for Social Work in Washington, D.C. Stiffman's colleagues note that teen violence has become a serious problem across the nation, and that Stiffman expressed concern about the recent rash of legislation de- signed to "get tough on" juvenile crime.

While many local and state politicians are pushing for more stringent penalties for juvenile offenders, Stiffman contends that stricter law enforcement measures alone are not enough to reverse what she sees as a vicious cycle of teen violence. "Instead of focusing solely on punish- ing the youths who are primarily reacting to the violence that they experienced around them, attempts must be made to reduce that environmental violence," Stiffman said.

"Our study demonstrates the need for compre- hensive interventions to reduce violence in the family, the community, and in the school."

Stiffman's study of teen violence is part of a larger research effort at the school's Center for Mental Health Research, which was established in 1993 with the help of a $3.7 million grant from the National Institute of Mental Health.

The center's research focuses on the access, integration and effectiveness of mental health services for high-risk populations, including children, adoles- cents, poor and minority individuals, and those in the community suffering from severe and persistent mental disorders.

Help needed at the 'gateways'

"Helping professionals need to be aware of that violence and recognize its mitigating influence on the youths' well- being and on any intervention that fails to take it into consideration," Stiffman said. "We cannot expect youths who experience violence, death and fear every day of their lives to be able to make plans for their future and to cope with that trauma without help."

— Arlene Stiffman

Record makes debut on World Wide Web

The Record is now available electroni- cally through the Internet. To access the Record, point a World Wide Web browser (Netscape, Mosaic, etc.) to http://wupa.wustl.edu/record/record.html. It is also accessible through the University's Home Page (http://www.wustl.edu).

For more information, call Galen Harrison at 935-6594.
News Analysis

Survey debunks notion that welfare spurs dependency cycle

Mark R. Rank, Ph.D., associate professor of social work, is an expert on welfare and social policy. Rank recently analyzed a national survey of 11,068 American households and determined the extent of intergenerational welfare use. His findings, to be published this month in the Journal of Marriage and Family, disprove the notion that welfare traps many of its recipients into a chronic cycle of dependency.

The study, supported by a grant from the National Institute of Child Health and Human Development, found:

• only 25 percent of recent welfare recipients said their parents had used welfare.
• only 10 percent of current welfare recipients grew up in households that frequently used welfare.
• only 5 percent of all welfare recipients (reporting welfare use in four of the last six years) who also grew up in welfare households were frequent users of welfare programs.

Thus, while many people claim that welfare reform is essential to break the "vicious cycle of dependence," Rank's study demonstrates that the vast majority of welfare recipients are not the children of welfare users. "So much of the welfare debate is based on this notion of chronic welfare dependency," said Rank. "Our study shows that this stereotype fits only a very small portion of the population." Rank said. Nevertheless, Rank did find that children raised in families using public assistance are indeed more likely to use welfare as adults when compared with those growing up in non-welfare households. While previous research has suggested a correlation between childhood and adult welfare use, Rank's study breaks new ground in the welfare dependency debate by using complex statistical analysis to isolate what this claim exists.

The research suggests that welfare use has little to do with welfare per se," Rank said. "Rather it has to do with poverty. Children who are born into poverty and rely on welfare usually come from families with low incomes. If parents have limited finances, their children obviously are going to have less opportunities, fewer resources. It's not like they translate into less education, less job prospects. It's that this stereotype fits only a very small portion of the population." Rank said. Nevertheless, Rank did find that children raised in families using public assistance are indeed more likely to use welfare as adults when compared with those growing up in non-welfare households. While previous research has suggested a correlation between childhood and adult welfare use, Rank's study breaks new ground in the welfare dependency debate by using complex statistical analysis to isolate what this claim exists. Hilltop faculty receive promotions, tenure

The following Hilltop faculty received promotions on record as of July 31. All promotions are subject to final approval by the Board of Trustees. The board also reviewed a number of assistant professors who have been promoted or promoted to associate professor.

• Miriam Ballin to associate professor of English; David A. Baute to professor of history; John R. Bowen to professor of law; Charles F. Nagel to professor of law; Michael W. Friedlander to professor of physics.

• Angela Miller, Ph.D., associate professor of English, is the 1995 winner of the Smithsonian Institution's National Museum of American Art in Washington, D.C. Angela Miller received a 1995 annual Charles E. Eldredge Prize for Distinctive Scholarship in American Art. "This is a marvelous honor for Angela, who comes here, and the caliber of student and teacher that has been nurtured here," said Rank.

• Angela Miller is professor of English and American Cultural Politics; 1825-1875; Cornell University Press.

Hilltop student finishes eighth in math competition

A Washington University team recently ran in the 1994-95 academic year to secure third place in the Lowell Putnam Mathematical Competition. The competition featured 2,314 contestants from 365 colleges and universities.

Students take a six-hour test in mathematics at their home institutions. A team total is computed from scores of three students. Of the 14 Washington University students who participated, seven finished in the top 50.

"I'm delighted," said Carl M. Bender, Ph.D., professor of physics, who, along with Richard Richberg, professor of mathematics, co-founded the Washington University team. Bender has coached the Washington team for the last 13 years. "I feel that the University should be very proud of our Putnam team, the level of mathematics taught here, and the caliber of student who comes here."

A Japanese high school student, Daniel K. Schepker came in eighth and received a $500 award. Joshua I. K. Vinson came in 24th and won $100. Lawrence P. Roberts, a junior, ranked 58th; Erik N. Vee, a senior, finished 46th; and of the 24 students who participated, 16 were seniors, 7 were juniors and 1 was a sophomore. Items must not exceed 75 words. For information, call 935-7093.
Campus

The following is a list of positions
available on the Hilltop Campus.
Please visit Hilltop Campus Human
Resources, Room 102, North
Brook Mall, for job application
forms and information.

Hilltop Campus

The following is a partial list of
positions available at the School of
Medicine. Employees who are
interested in submitting a transcript
request should contact the
Department of Medical Education.

Requirements: bachelor's degree
in science or related field and
experience in a life science.

Positions: four.

Biochemistry and Molecular
Bacteriology.

Requirements: high school
graduate or equivalent.

Telephone: 814-964-2500.

Biology.

Requirements: bachelor's degree.

Requirement: Managing Museum
Department.

Requirements: college degree with
backing in museum administration.

Biochemistry and Molecular
Bacteriology.

Requirements: high school
graduate or equivalent with three
to five years of experience.

Careers.

Requirements: bachelor's degree.

Army Research.

Requirements: bachelor's degree.

Positions: four.

Biochemistry and Molecular
Bacteriology.

Requirements: high school
graduate or equivalent.

Psychiatry.

Requirements: registered sonographer
with an associate's degree or
certification.

Positions: two.

Biochemistry and Molecular
Bacteriology.

Requirements: high school
graduate or equivalent with five
to seven years of experience.

Psychiatry.

Requirements: master's degree.

Positions: one.

Biochemistry and Molecular
Bacteriology.

Requirements: bachelor's degree.

Research.

Requirements: computer science
major and planning to attend
graduate school.

Medical Library.

Requirements: college degree
in library science.

Positions: one.

Business Services/Desk
Maintenance.

Requirements: high school
graduate or equivalent.

Positions: one.

Biochemistry and Molecular
Bacteriology.

Requirements: high school
graduate or equivalent.

Research.

Requirements: master's degree.

Positions: one.

Biochemistry and Molecular
Bacteriology.

Requirements: high school
graduate or equivalent.

Research.

Requirements: bachelor's degree.

Positions: one.

Biochemistry and Molecular
Bacteriology.

Requirements: high school
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