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## Washington University Record, September 5, 1991

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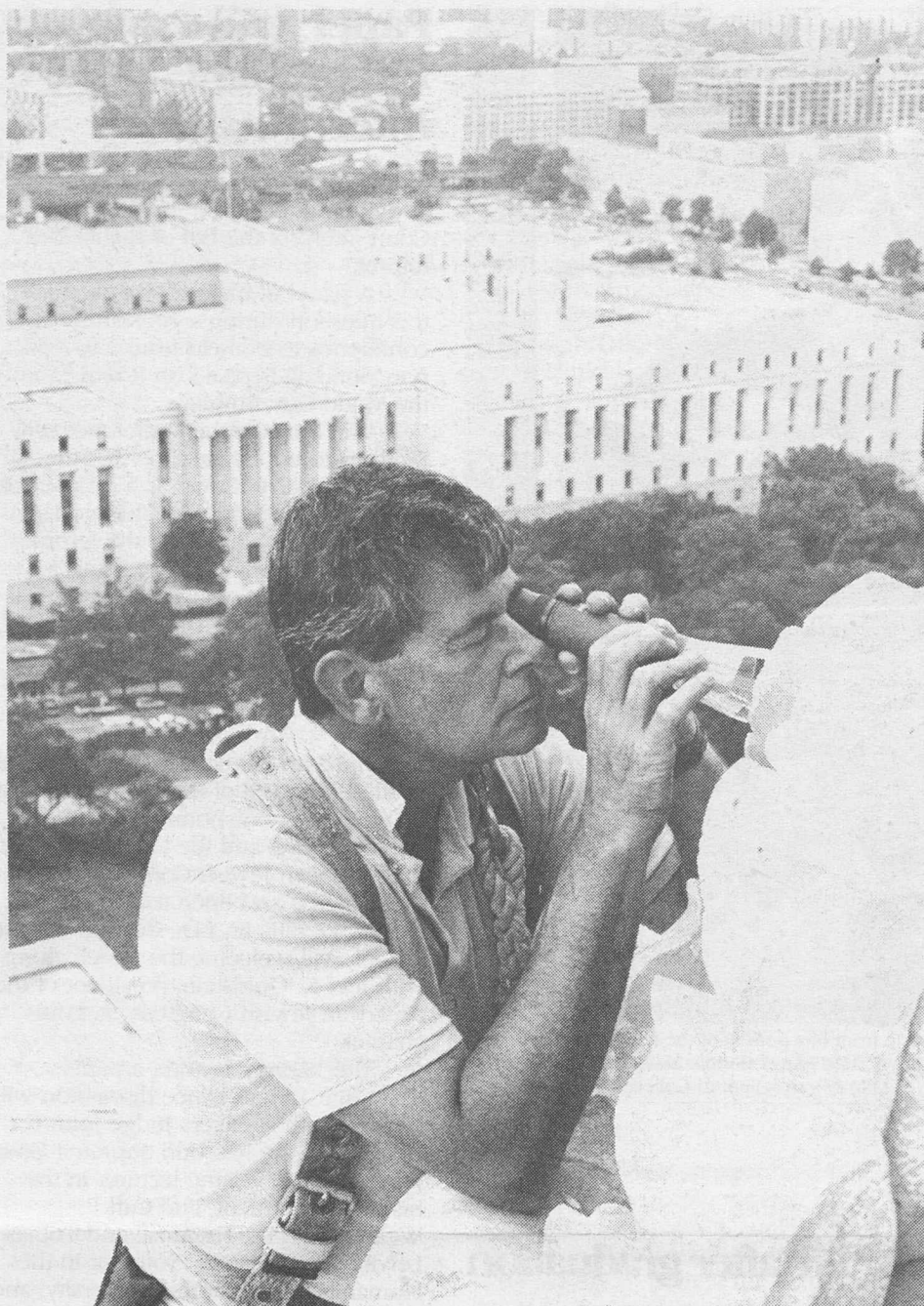
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Patrick Rice, who heads Washington University Technology Associates, is perched some 300 feet above Washington, D.C., as he analyzes Lady Freedom, the statue atop the U.S. Capitol.

## Capitol improvement

### Nation's Lady Freedom faces head-to-toe 'spa treatment'

Lady Freedom, the 130-year-old bronze statue that stands atop the nation's Capitol, will soon get a head-to-toe "spa treatment" from conservators, engineers and scientists of Washington University Technology Associates (WUTA).

The statue, 300 feet above Washington, D.C.'s, Capitol plaza, has presided over the city since the height of the Civil War in 1863. At the time, President Lincoln urged that the statue be completed as a symbol that the Union would endure. Today, while the Union is still strong, Lady Freedom is corroding, falling victim to modern air pollution.

The statue, officially titled Freedom, is a classical allegorical female figure wearing flowing draperies. Her right hand rests upon the hilt of a sheathed sword and her left holds a laurel wreath of victory and the shield of the United States with 13 stripes. Her helmet is encircled with stars and has an eagle's head on its crest.

Lady Freedom was scrubbed with mild soap and water and her base repainted almost every four years. Three years ago the painters came down with a piece of metal that had simply fallen off the statue when they touched it.

Nationally recognized as authorities in restoring monumental sculpture, WUTA recently was called in to assess the statue's condition. WUTA, headed by Patrick Rice, has rejuvenated several sculptures of similar size and in similarly precarious locations. The Soldiers and Sailors monument in Indianapolis, for example, also is almost 300 feet off

the ground. As sure-footed as mountain goats, the WUTA engineers and scientists completed work on that project with the statue in place.

The Goddess of Liberty on the Austin, Texas, capitol building, on the other hand, was removed by helicopter. Part of WUTA's assignment is to determine whether the work on Freedom can be done in place. If she needs to be lifted from her perch, WUTA and structural engineers Cagley and Associates must design a way to safely support Freedom's 14,985 pounds.

If the statue is removed from her lofty abode, restoration will take place right on the Capitol plaza, so the public can watch the conservation process.

In preliminary analysis, WUTA found that the statue's surface had developed "galvanic corrosion cells," an electrically powered corrosion process. This occurs when an acidic material, such as the sulfuric acid found in acid rain, contacts the bronze surface. Sulfur-based corrosion products form and develop an electric current between those different corrosion products, slowly dissolving away the bronze surface of the statue.

WUTA chief engineer Jerry Dahl examined the interior of the statue to see how it had been assembled.

"Many times artists who create monumental sculptures don't understand how things go together, so sometimes (the sculpture is) under-designed or actually dangerous, in some conditions," he says.

Dahl's examination will help determine if and how the monument

*Continued on p. 2*

### Fast-packet switch will speed data transmission, greatly aid research

More than 120 representatives from industry and government, including the deputy director of the National Institutes of Health, filled Room 458 Louderman Hall on Aug. 23 to witness the first public demonstration of the Washington University "fast-packet" switch. The switch is a key component in a plan to create a broadband campus network called Project Zeus.

The digital broadband communications network, based on the work of Jonathan S. Turner, Ph.D., professor of computer science, is a high-speed fiber optic communications network that transmits voice, video, data and high-resolution images all in one package.

According to Jerome R. Cox Jr., Sc.D., director of the Applied Research Laboratory, the demonstration showed the only broadband switch that has the built-in capability of simultaneously distributing an image or other data from a single source to many receivers.

On a large screen, Louderman Hall participants watched as a patient at Barnes Hospital, nearly two miles away, walked on a treadmill as part of a stress test.

They also watched as two doctors, each at separate locations, consulted on the patient's progress. Both doctors were monitoring the same data from the patient's electrocardiogram (ECG) as he was walking the treadmill. While stationed at Louderman Hall, Charles Mead, M.D., of the Medical Informatics Laboratory, discussed the patient with Mark Frisse, M.D., also of the Medical Informatics Laboratory, who was at the School of Medicine, more than a block away from the patient at Barnes Hospital.

The doctors and the patient were all linked by a network centered on the fast-packet switch; a camera located above their computer workstations allowed the doctors to view each other and consult over the phone as if they were in the same room together. They discussed the implications of the stress

test; when they wanted, they could switch over to the patient. On another part of their screen, they observed the patterns on ECG recording. Breaking away from the patient, the doctors discussed their diagnosis as they observed each other on the workstation screen. The resolution of images and data coming over the fast-packet network was clear and distinct, and everything happened in real time.

In Louderman Hall, Gilbert Jost, M.D., chief of diagnostic radiology at Mallinckrodt Institute, explained how the new technology facilitates communication between doctors. He said that the more than 350,000 X-rays taken annually at Mallinckrodt Institute of Radiology can be transmitted digitally and brought up on workstations within seconds, allowing doctors to consult immediately.

Earlier in the day, faculty from the departments of Earth and Planetary Sciences and Biology and the School of Architecture explained how the fast-packet project, called Project Zeus, will greatly aid research in their fields by speeding up the transmission of data and expanding the type of information that comes across the network. Project Zeus springs from earlier research supported by Southwestern Bell Telephone, Southwestern Bell Technology Resources and NEC America. The project, which is in what is called "Phase 0," will have two more phases and is expected to be concluded and available for a variety of research applications on campus by 1996.

"Project Zeus is looking for sponsors, and a number of firms have already expressed interest," said Cox. "Once we can show the telecommunications industry that the applications of Project Zeus are working effectively at Washington University, we're confident that it will become widely adapted elsewhere. Eventually, the applications will touch every part of society."

### Literary theorist Stanley Fish to give talk

Duke University's Stanley Fish will speak at 11 a.m. Wednesday, Sept. 11, in Graham Chapel. Fish is Arts and Sciences Professor of English and chair of the department, and professor of law at Duke. His lecture, "Free Speech Doesn't Exist, and It's a Good Thing, Too," is part of the University's Assembly Series and is free and open to the public.

Fish is the author of more than 80 articles and books, including *Is There a Text in This Class?*



Stanley Fish

*The Authority of Interpretive Communities.* He is known for his critical theories asserting that meaning does not exist within a text; rather, it is determined by the reader. His most

recent book, *Doing What Comes Naturally: Change, Rhetoric, and the Practice of Theory in Literary and Legal Studies*, expands that argument.

His works have been translated into French, German, Italian, Japanese, Chinese, Spanish, Portuguese, and Hebrew; and many have been reprinted and anthologized. In the past 15 years, there have been some 75 articles, parts of books, and dissertations devoted to his work. In addition, his work has been discussed at a meeting of the Modern Language Association convention in 1976, by a

panel at the American Studies Association convention in 1983, and in an issue of *Genre*.

Fish is a member of the American Academy of Arts and Sciences, and has received both Guggenheim and American Council of Learned Societies fellowships. He received his doctorate at Yale. Prior to teaching at Duke University, he taught at several universities and was a visiting professor in English at Washington University in 1967.

The lecture is sponsored by the Assembly Series, the Department of Comparative Literature and the Department of English. For more information, call 935-4620.

### Entertainer Patinkin will open 'OVATIONS!'

All-around entertainer Mandy Patinkin will open the University's "OVATIONS!" season at 8 p.m. Sept. 20 in Edison Theatre.

Patinkin will perform his one-man concert titled "Mandy Patinkin in Concert: Dress Casual," which was described by *Newsday* as "an absolutely terrific 90 non-stop minutes in the theater."

Patinkin, a performer of many talents, is well known to movie-goers who have seen him in "The Princess Bride," "Yentl," "Alien Nation," "Dick Tracy" and many others. An accom-

*Continued on p. 4*





**In remembrance:** David and Peggy Nemerov, the son and wife of the late Howard Nemerov, stand in front of a portrait of the renowned poet. The portrait was commissioned by the University last September in honor of Nemerov, who died of cancer July 5, 1991. Artist Bonnie Miller (right), a teacher at Mount Holyoke College, was chosen by Nemerov to do the portrait, which hangs near the entrance of Olin Library's Special Collections on Level 5.

## 'The real world'

### Career Center program helps students prepare for life after graduation

During freshman orientation, students attend a session called "Choices 101," which is designed to give them their first peek at college life. Among others, the issues of dorm life, parties vs. academics, and dating are discussed.

This year, the University's Career Center has planned a similar session for seniors. "Choices 401" is a skit that looks at college life four years later, as the students prepare for "the real world."

The issues are different, but the feelings experienced by many of the students are largely the same — excitement mixed with sheer panic. As they get ready to trek out into the unknown, there are many questions, fears and battles with self-doubt.

Alfreda Brown, director of the Career Center, said she hopes the session will make students understand that they are not alone. "We want them to know that we understand how they feel, how they're going to feel. These feelings are normal. There are people on campus to assist you," she said.

"Choices 401" is part of Senior Options, a two-day program Sept. 11 and 12 at Mallinckrodt Center. Activities begin at 7 p.m. both nights. The program was scheduled at the beginning of the year to allow seniors as much time as possible to prepare for life after graduation. All students are invited to attend. Juniors who want to get a head start on next year are especially welcome.

This is the third year the center has held the program, which features several panel discussions involving alumni from various career fields and representatives of graduate schools.

"We want to assist students in identifying the resources available to them on campus to facilitate a smooth transition from Washington University to their next life, regardless of whether it's a graduate program, a full-time job or a volunteer opportunity," Brown said.

On Sept. 11, following an introduction by Brown and Harry Kisker, dean of students, the skit "Choices 401" will be staged in Edison Theatre. The skit, written by Nikola Wilensky, a senior in the Performing Arts Department, will depict the experiences of the senior year and address concerns and anxiety about leaving Washington University.

Following the skit, a panel discussion on "My First Year After College" will feature alumni as they share their experiences of landing their first real jobs. They will give suggestions to the seniors, as well as answer any questions. Alumna Sheila Burks was a French and sociology double major and Fulbright fellow who found the route to her ideal job meant going to graduate school for an MBA. She now works at Citicorp. One of the reasons for her visit is to show students that it sometimes takes years and several job changes to arrive at the ideal job.

Many seniors, Brown said, are anxious, believing that the first job will be the job they have forever. "We want to let our students know that there are a lot of opportunities available for them to do interesting and rewarding things for a short time period before moving onto a more traditional career," she said.

Later that evening, workshops will familiarize seniors with such on-campus resources as the Career Center, placement offices, and the Counseling Service. Stix International House staff members will inform international students of various employment options. Graduate study options in the arts and sciences will be discussed, along with professional school options. Representatives of the business, law, social work, and medical schools will give short presentations, followed by a question-and-answer period.

On Thursday evening, "Career Clusters" will feature a more in-depth continuation of the alumni panels. Many career fields, including scientific/

mechanical, artistic, social and business, will be discussed by more than 20 alumni who are currently working in those fields. The majority of the alumni are members of the Career Center's ACCESS program. Brown said she hopes students will be encouraged to use the ACCESS program following Senior Options. ACCESS is a Washington University alumni network, providing students with information about the careers of hundreds of graduates.

Also on Thursday, graduate and professional school representatives will be available to explain the application process.

Brown said this year's Senior Options — the result of many months of planning — will be the largest one yet.

## Lady Freedom — continued from p. 1

could withstand being moved off the dome. Preliminary plans call for the statue to be jacked up and to insert a large metal platform under her. All stresses from lifting would then be directed through the platform to the bottom of the statue in order to minimize force on the statue body flanges.

The Lady Freedom project is part of an overall plan to refurbish the Capitol building by December 1992.

WUTA's services are in great demand these days. The department recently was in the local news when they removed the "Peace and Vigilance" statues from atop the Old St. Louis Post Office. Plans call for the statuary group to be restored and replaced in the building's atrium. Reproduction statues will then be made of a sturdier material and will be mounted on the building's facade.

WUTA is restoring monuments across the country, from Florida to Washington.

"There is a growing awareness about the need to upkeep objects and

## Panel will examine Bill of Rights, future interpretations

From hate speech to privacy rights to gun control, how will the Supreme Court interpret the Bill of Rights in the future?

A panel of experts will examine this question during a constitutional conference to be held from 1 to 4:30 p.m. Sunday, Sept. 15, in Room 316 of the Mudd Law Building.

The focus of the conference will be the address by Geoffrey R. Stone, dean and Harry Kalven Jr. Professor of Law at the University of Chicago Law School. Stone will deliver the Jerome W. Sidel Memorial Lecture. He is a leading constitutional scholar who has written widely on First Amendment issues and once served as a law clerk for William J. Brennan Jr., retired associate justice of the U.S. Supreme Court.

The 14th annual conference, which is titled "The Bill of Rights — The Next 200 Years," is co-sponsored by the School of Law and the local chapter of the American Jewish Congress. The event is free and open to the public. Dorsey D. Ellis Jr., J.D., dean of the law school, will welcome the panel, along with Joel K. Goldstein, president of the American Jewish Congress, St. Louis chapter.

After Stone's lecture, a panel exchange and audience discussion will be held with speakers Judge John C. Holstein of the Missouri Supreme Court; Joseph Losos, visiting lecturer in the history department, and Carl P. Wellman, Ph.D., Hortense and Tobias Lewin Distinguished Professor in the Humanities, both at the University; and Dorothy Walker, a teacher at Roosevelt High School. Ronald M. Levin, J.D., associate dean of the law school, will serve as moderator for the panel.

The speakers will explore how the makeup of the U.S. Supreme Court will affect the future direction of the Bill of Rights and will address how the amendments will be applied to pertinent issues, such as medical ethics and crime, over the next 200 years. The tension between the needs of society and the rights of individuals also will be addressed.

The law school will issue three Missouri continuing legal education credits to attorneys who attend and evaluate the program. Advance reservations are requested by calling 993-5505.

buildings and there is an increasing willingness to spend funds to preserve them," observes Rice. "But it's not so much that statues and buildings are corroding faster or more frequently, it's just that this type of work is cyclical. We often work with state and local governments, since they usually own these monumental sculptures, and all these projects have been in the works for several years."

Rice notes that there are about a dozen firms in the country that do this type of restoration work. What sets WUTA apart is its versatility.

"On our staff of 17 we not only have conservators and technicians, we have engineers and artists who can create replacement parts, as well as people who understand the insurance, marketing and administrative aspects to this type of concern. These are all elements the smaller companies have to sub-contract, which puts them at a disadvantage," says Rice.

— Debby Aronson



# NOTABLES

**Elliot Efrem Abbey**, M.D., assistant professor of clinical medicine, was named Clinical Teacher of the Year by the Centennial fourth-year class of the School of Medicine and led them in the Declaration of Geneva at spring graduation ceremonies.

**Kerry E. Back**, Ph.D., associate professor of finance, has been awarded a Batterymarch Fellowship for the 1991-92 academic year. The fellowship is awarded annually by Batterymarch Financial Management to the three most promising scholars in finance as determined by the selection committee of faculty and financial executives. The fellowship makes it possible for Back to be relieved of teaching and administrative duties, so that he may concentrate on his research.

**Jonathan B. Cohen**, Ph.D., professor of anatomy and neurobiology, biochemistry and molecular biophysics, and coordinator of the division of biology and biomedical sciences' graduate program in neurosciences, was awarded a grant of \$188,072 from the National Institutes of Health for the purpose of training division doctoral students in the area of systems and molecular neurobiology. The grant covers the period from July 1991 through June 1992.

**Cornell Fleischer**, Ph.D., professor of history, was elected a corresponding member of the Turkish Historical Association in Ankara. He was also selected as one of the 20 U.S. delegates to the 1991 British-American conference, sponsored by the Royal Institute of International Affairs and the Paul H. Nitze School of Advanced International Studies of the Johns Hopkins University.

**James Goldfarb**, a senior at the University, was selected as one of 34 Arizona Honors Academy Fellows to participate in the 1991 Academy seminar in Flagstaff, Ariz.

**Marvin E. Levin**, M.D., professor of clinical medicine, associate director of the metabolism and diabetes clinic and a 1951 graduate of the School of Medicine, was awarded the American Diabetes Association Award for Outstanding Physician Educator in the Field of Diabetes in 1991 at the recent American Diabetes Association and International Diabetes Federation meetings in Washington, D.C. A stipend of \$1,000 accompanied the award.

**Daniel R. Mandelker**, J.S.D., Howard A. Stamper Professor of Law, testified at a hearing in Washington, D.C., sponsored by the U.S. House of Representatives Committee on Banking, Finance and Urban Affairs. The hearing focused on regulatory barriers to affordable housing. The banking committee's Policy Research and Insurance Subcommittee published the proceedings of the hearing. Mandelker also spoke at an American Law Institute-American Bar Association conference on eminent domain held in Atlanta, Ga., and at the American Planning Association's annual Zoning Institute held in Orlando, Fla.

**Dianne F. Merritt**, M.D., instructor in the Department of Obstetrics and Gynecology, presented an invited lecture, titled "Three Decades of Challenge: The Trend in Teenage Pregnancy in the United States," as part of the Plenary Lectures on Pregnancy and Labor at the Third Annual Symposium on the Pregnant Uterus in Debrecen, Hungary. Also, Meritt and C. Phyllis Leppert, M.D., Ph.D., chief of the Department of Obstetrics and Gynecology at the University of Rochester Medical Center, co-chaired a session titled "Free Communications" at the symposium.

**Kevin Moeller**, Ph.D., assistant professor of chemistry, received a \$96,700 grant from the National Science Foundation. The grant is titled "Intramolecular Anodic Olefin Coupling Reactions." The two-year grant will examine the intramolecular olefin coupling reaction in order to determine its scope and limitations, as well as to gain insight into the nature of the reactive intermediates.

**R. Joseph Olk**, M.D., associate professor of clinical ophthalmology, was a visiting lecturer at the Fifth Annual Sarasota Vitreoretinal Update Course. His lectures were: "Management of Age-related Macular Degeneration," "Laser Photocoagulation for Diabetic Macular Edema," and "Management of Cystoid Macular Edema: Medical Therapy Versus Laser." Olk also was a visiting professor at the Latin American continuing education course at the University of Santurce in Puerto Rico. He lectured on macular degeneration and diabetic retinopathy.

**Gruia-Catalin Roman**, professor of computer science, gave a talk titled "Reasoning About Synchronic Groups" at the international workshop on Research Directions in High-Level Parallel Programming Languages held in Mont Saint-Michel, France.

**Linda B. Salamon**, Ph.D., dean of the College of Arts and Sciences, was elected vice chairman of the St. Louis College of Pharmacy's board of trustees for 1991-92.

**Thomas R. Sonderegger**, assistant vice chancellor/assistant dean for program and finance planning, and **Valorie J. Hambley**, assistant dean for administration, both at the School of Medicine, gave a presentation on the Resource Allocation Model at the American Association of Medical Colleges conference in Quebec, Canada. Their talk gave both a departmental and central administrative perspective of the medical school's resource model.

**John Stewart**, associate professor of music, sang four concerts honoring composer Leonard Bernstein with the St. Louis Symphony. Stewart sang selections from "West Side Story."

**Frederick Sweet**, Ph.D., professor and director of the Division of Reproductive Biology in the Department of Obstetrics and Gynecology, presented an invited lecture, titled "How do Steroid-Specific Enzymes Work? A Chemist's View," to the bi-annual Steroid Conference in Vercemesmero, Hungary. He lectured on "Molecular Forces Which Influence Affinity of Steroids for Proteins" to the Division of Endocrine Research at Rousel Uclaf, the manufacturer of RU-486, in Romaineville, France. Also, his article "Novel Synthesis of Cholesterol Analogs: Condensation of Pregnenolone With Dihydropyran or Dihydrofuran," which he co-authored with Zsuzsa Szendi of the Institute on Organic Chemistry at Attila Jozsef University in Szeged, Hungary, will appear in the international journal *Steroids: Structure, Function and Regulation* in September.

## Have you done something noteworthy?

Have you: Presented a paper? Won an award? Been named to a committee or elected an officer of a professional organization? The Washington University Record will help spread the good news. Contributions regarding faculty and staff scholarly or professional activities are gladly accepted and encouraged. Send a brief note with your full name, highest-earned degree, current title and department along with a description of your noteworthy activity to Notables, Campus Box 1070, or by electronic mail to p72245DP at WUVMC. Please include a phone number.

## Mildred Trotter, one of nation's foremost physical anthropologists, dies at 92

Mildred Trotter, Ph.D., professor emeritus of anatomy at the School of Medicine, one of the nation's foremost physical anthropologists and an eminent anatomist, died, Aug. 23, after a long illness. She was 92 and a resident of Bethesda-Dilworth Memorial Home in Oakland, Mo.

A memorial service will be held at 5 p.m. Oct. 9 in Graham Chapel.

During 47 years of teaching, Trotter trained almost 4,000 students in human



Mildred Trotter

anatomy. Among her students were two Nobel laureates, one of whom, Daniel Nathans, M.D., later described her as, "a very exciting teacher," "absolutely thorough," and a woman of "tremendous vitality." She was a member of the faculty for 71 years.

The first woman to be named to a full professorship at the School of Medicine, Trotter made "the structure of man," her study, according to long-time colleague and friend, Roy R. Peterson, Ph.D., professor emeritus in the Department of Anatomy and Neurobiology. She contributed greatly to the understanding of bone as tissue and as the central locus of mineral mass in the body. Her methods of determining a person's size in life from bones found after death remain the standard for forensic medicine.

Born and raised in Pennsylvania, she first developed an interest in science at Mount Holyoke College in South Hadley, Mass., where she majored in zoology. Upon graduation in 1920, she joined the faculty of Wash-

ington University, where she earned both her master's and doctoral degrees.

One of the founders of the American Association of Physical Anthropologists, she published more than 100 papers and book chapters and was the first woman to be awarded the Viking Fund Medal given by the Wenner-Gren Foundation for Anthropological Research, preceding even Margaret Mead in that honor. In 1956, she received the first St. Louis Globe-Democrat Woman of Achievement Award. In 1975, the Mildred Trotter Lectureship was established by the alumni association in her honor.

In the spring of 1980, Trotter received an honorary doctorate from Washington University. The citation noted her 60 years of inspired teaching, scientific leadership, and most importantly, her qualities of enthusiasm, warmth and goodwill.

Trotter was a demanding instructor who expected excellence. "The mention of her name can still get a few clinical chiefs to quake," according to colleague Glenn C. Conroy, Ph.D., professor of anatomy and neurobiology at the University.

In a time when medicine was largely dominated by men, Trotter inspired hundreds of investigations and thousands of students. Colleague Jane Phillips-Conroy, Ph.D., associate professor of anatomy and neurobiology at the University, says, "Everyone in the field considers her a trailblazer. We all feel strongly about her as one of the founders of physical anthropology."

Peterson recalls that she embodied good science: "Her motivation was doing the job well, to the very best of her ability, knowing that the results were correct and would stand."

## Fulbright application deadline is Sept. 27

The Institute of International Education (IIE) has announced that the 1992-93 competition for Fulbright grants for graduate study abroad and for programs offered by foreign governments, universities and private donors will close on Oct. 31. The deadline for filing an application on this campus is Sept. 27.

Approximately 670 awards to more than 100 countries are available. Most of the grants provide round-trip transportation, tuition and maintenance for one academic year.

Applicants must be U.S. citizens at time of application, and must hold a bachelor's degree or its equivalent before the beginning day of the grant.

Three new programs are available this year. The U.S.-Mexico Commission for Educational and Cultural Exchange (Fulbright Commission) has established a pilot project that will enable five teacher trainers and curriculum development specialists in TEFL/ESL to spend an academic year at designated Mexican institutions, primarily teacher training colleges.

The IIE has announced a new fellowship program for young researchers in professional, policy and public administration-related fields who wish to develop specialized knowledge of East Central Europe. The program, funded by the Soviet-Eastern European Research and Training Act of 1983 (Title VIII), is intended to support young specialists in the fields of business and economics, law, journalism, public administration and international relations.

The IIE also has announced a reciprocal exchange program that will

provide opportunities for U.S. colleges and universities to send undergraduates to East Central Europe and also to host competitively selected students from universities in that region. The program will offer one semester of study in East Central Europe for 12 U.S. undergraduates for the spring 1992 semester.

For more information, contact Michele Shoresman at 935-5910.

## RECORD

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# CALENDAR

Sept. 5-14

## LECTURES

### Thursday, Sept. 5

**4 p.m. Women's Study Program Presents a Discussion** of the film "Thelma and Louise." Women's Bldg. Lounge. For more info., call 935-5102.

**4 p.m. Dept. of Earth and Planetary Sciences Colloquium**, "The St. Louis Science Center," Dennis Wint, president, St. Louis Science Center. Room 102 Wilson Hall. For more info., call 935-5603.

### Friday, Sept. 6

**9:15 a.m. Dept. of Pediatrics Sixth Philip R. Dodge Lecture**, "Mitochondrial Diseases: The Tale of Two Genomes," Darryl C. De Vivo, Sidney Carter Professor of Neurology and prof. of pediatrics, College of Physicians and Surgeons, Columbia U. Clopton Aud., 4950 Audubon Ave.

**Noon. Dept. of Cell Biology and Physiology Seminar**, "How Axons Decide Where to Form Synapses," Joshua Sanes, WU Dept. of Anatomy and Neurobiology. Room 423 McDonnell.

### Wednesday, Sept. 11

**8 a.m. Dept. of Obstetrics and Gynecology Grand Rounds**, "Recent Advances in Female Reproductive Physiology," James R. Schreiber, prof. and chair, WU Dept. of Obstetrics and Gynecology. Schwarz Aud., Maternity Hospital.

**11 a.m. Assembly Series Lecture**, "Free Speech Doesn't Exist, and It's a Good Thing, Too," Stanley Fish, prof. and chair of English, Duke U. Graham Chapel.

**4 p.m. Dept. of Biochemistry and Molecular Biophysics Lecture**, "RecA Protein as a Recombinational Repair System," Michael Cox, Dept. of Biochemistry, U. of Wisconsin, Madison. Cori Aud., 660 S. Euclid Ave.

**8 p.m. The Writing Program and Dept. of English Present a Poetry Reading**, with Linda Gregg, Visiting Hurst Professor and author of *Too Bright, To See, Alma and Sacraments of Desire*. Hurst Lounge, 201 Duncker Hall.

### Thursday, Sept. 12

**Noon. Human Studies Committee Educational Seminar**, "The Inclusion of Women in Biomedical Research — Public Policy and Legal Perspectives on the Inclusion of Women in Biomedical Research," Susan Wood, Congressional Science Fellow, Congressional Caucus for Women's Issues. Susan Frelich Appleton, WU prof. of law, will moderate. Lower level, Wohl Aud.

**4 p.m. Dept. of Earth and Planetary Sciences Colloquium**, "Magellan Mission to Venus — An Update," Raymond E. Arvidson, prof. and chair, Dept. of Earth and Planetary Sciences. Room 102 Wilson Hall.

**4:15 p.m. Dept. of Philosophy Colloquium**, "Reality without Ontology," Jennifer Case, a graduate student in the Dept. of Philosophy and 13th Helen Stenner Memorial Essay Winner. Living room, Stix International House.

### Friday, Sept. 13

**9:15 a.m. Pediatric Grand Rounds**, "The Physiological Role of Alkaline Phosphatase Explored in Hypophosphatasia," Michael P. Whyte, WU prof. of medicine and associate prof. of pediatrics. Clopton Aud., 4950 Audubon Ave.

**Noon. Dept. of Cell Biology and Physiology Seminar**, "Reverse Genetics and Transgenic Mice: Tools to Elucidate Protein Function and Genetic Diseases," Elaine Fuchs, U. of Chicago. Room 423 McDonnell Medical Sciences Bldg.

**4 p.m. Dept. of Music Lecture Series Presents** "Monteverdi's 'Hor che'l ciel e la terra' and Early Baroque Aesthetics," Jeffrey Kurtzman, WU Dept. of Music. Room B-8 Blewett Hall.

## FILMS

### Thursday, Sept. 5

**7 and 9 p.m. Filmboard Foreign Series Presents** "Loves of a Blonde," a Czechoslovakian film with English subtitles. Room 100 Brown Hall. \$3.

### Friday, Sept. 6

**7 and 9:30 p.m. Filmboard Feature Series Presents** "Rebel Without a Cause." (Also Sept. 7, same times, and Sept. 8 at 7 p.m.) Room 100 Brown Hall. \$3.

**Midnight. Filmboard Midnight Series Presents** "Beyond the Valley of the Dolls." (Also Sept. 7, same time, and Sept. 8 at 9:30 p.m.) Room 100 Brown Hall. \$3. On Fri. and Sat., both the 9:30 p.m. and midnight films can be seen for \$4; both Sunday films can be seen for \$4.

### Monday, Sept. 9

**7 and 9 p.m. Filmboard Classic Series Presents** "Sherlock Jr." and "The Three Ages,"

two silent films starring Buster Keaton. (Also Sept. 10, same times.) Room 100 Brown Hall. \$3.

### Wednesday, Sept. 11

**5:30 and 9 p.m. Filmboard Foreign Series Presents** "Children of Paradise," a French film with English subtitles. (Also Sept. 12, same times.) Room 100 Brown Hall. \$3.

### Friday, Sept. 13

**7 and 9:30 p.m. Filmboard Feature Series Presents** "The Cook, the Thief, His Wife, & Her Lover." (Also Sept. 14, same times, and Sept. 15 at 7 p.m.) Room 100 Brown Hall. \$3.

**Midnight. Filmboard Midnight Series Presents** "Peeping Tom." (Also Sept. 14, same time, and Sept. 15 at 9:30 p.m.) Room 100 Brown Hall. \$3. On Fri. and Sat., both the 9:30 and midnight films can be seen for \$4; both Sunday films can be seen for \$4.

## EXHIBITIONS

### "Washington University Art Collections."

Through May 1992. Gallery of Art, upper and lower galleries, Steinberg Hall. Exhibit hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 935-5490.

**"New Faculty Works."** Through Sept. 15. Bixby Gallery, Bixby Hall. Exhibit hours: 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends. For more info., call 935-4643.

**"The Scientific Journal: Landmark Articles."** Through Sept. 6. Special Collections, Olin Library, Level 5. Exhibit hours: 8:30 a.m.-5 p.m. weekdays. For more info., call 935-5487.

**"An American Collection: Paintings and Sculpture From the National Academy of Design."** Opening reception: 7-9 p.m. Sept. 6. Exhibit continues through Nov. 3. Gallery of Art, upper gallery, Steinberg hall. Exhibit hours: 10 a.m.-5 p.m. weekdays. 1-5 p.m. weekends. For more info., call 935-5490.

**"Bibliomania: A Passion for Books."** Sept. 9 through Oct. 18. Special Collections, Olin Library, Level 5. Exhibit hours: 8:30 a.m.-5 p.m. weekdays. For more info., call 935-5487.

## SPORTS

### Saturday, Sept. 7

**7 p.m. Football.** WU vs. Kentucky Wesleyan College. Francis Field.

### Wednesday, Sept. 11

**7 p.m. Women's Soccer.** WU vs. DePauw U. Francis Field.

### Friday, Sept. 13

**3 p.m. Volleyball.** WU Classic. (Drury, Fontbonne, Millikin, Juniata, Ohio Northern, Simpson, Southwestern.) Tournament continues at 9 a.m. Sept. 14. Field House.

**3:30 p.m. Women's Tennis.** WU vs. Southwest Missouri State U. Tao Tennis Center.

### Saturday, Sept. 14

**1 p.m. Men's Soccer.** WU vs. Carnegie Mellon U. Francis Field.

**2 p.m. Women's Tennis.** WU vs. Southeast Missouri State U. Tao Tennis Center.

**4 p.m. Women's Soccer.** WU vs. Wheaton College. Francis Field.

## MISCELLANY

### Thursday, Sept. 5

**4-5 p.m. International Studies Fulbright Application Writing Workshop.** Stix International House. For more info., call 935-5958 or 935-5477.

### Tuesday, Sept. 10

**4 p.m. Committee to Prepare for the 21st Century and the Senate Council have scheduled an open faculty meeting** to discuss the committee's draft report "A University Agenda." Room 118 Brown Hall.

**4:30 p.m. The Center for Communications and Networking Management Open House.** At the CCNM facility, 1144 Hampton Ave.

### Calendar Deadline

The deadline to submit items for the Sept. 12-21 calendar of the Record is Sept. 6. Items must be typed and state time, date, place, nature of event, sponsor and admission cost. Incomplete items will not be printed. If available, include speaker's name and identification and the title of the event; also include your name and telephone number. Send items to Deborah Parker, calendar editor, Box 1070, or by electronic mail to p72245DP at WUVMC.



"Birth of our Flag" by Henry Peters Gray is one of the paintings that will be on display through Nov. 3 in the National Academy of Design exhibit at the Gallery of Art.

## Historic exhibit featured at gallery

The Gallery of Art in Steinberg Hall will host an historic art exhibit from New York's National Academy of Design (NAD) Sept. 6-Nov. 3.

The exhibit, titled "An American Collection: Paintings and Sculpture From the National Academy of Design," is the first tour of the NAD's collection in its 165-year history. The Gallery of Art is the final stop in a tour that included Nashville and Chicago.

A free opening reception will be held from 7-9 p.m. Friday, Sept. 6.

"An American Collection" features works by 83 American artists, all of which were or are members of the academy. Established in 1826 in New York City, the academy is one of the country's oldest continuously operating art schools. Its purpose was to help create a climate in the United States in which the arts would flourish. As part of that goal, the academy collected works by its members and provided a gallery in which they could exhibit their work. The first annual exhibit was held in 1826 and the tradition has continued unbroken ever since.

"We are honored to have been included in the first tour of selections from the National Academy's collection," says Joseph D. Ketner, Gallery of Art director. "This is an exciting chance for St. Louisans to see an outstanding and varied collection of American art that spans more than 150 years."

The NAD was founded by a group of artists, including Samuel F.B. Morse, Thomas Cole and Asher Durand. The collection, created by the artist members, is an outstanding archive of the history of American art from the artists' perspective, rather than from a collector's retrospective.

The collection now has more than 2,000 works donated by its more than over one-and-a-half centuries.

Academy members over its 165 years of existence include many of the most distinguished artists in the United States. Outstanding works in "An American Collection" range from works by founders Morse and Durand to contemporary artists and active academicians Philip Pearlstein, Richard Estes and Wayne Thiebaud.

The national tour is sponsored by Northern Telecom Inc. The St. Louis venue is being co-sponsored by the St. Louis Post-Dispatch.

The Gallery of Art is open 10 a.m.-5 p.m. weekdays and 1-5 p.m. weekends. For information, call 935-4523.

## Patinkin —

*continued from p. 1*

plished singer, Patinkin released his debut solo album last year, which The New York Times called "a tour de force comparable to the most indelible records of Judy Garland, Al Jolson and Barbra Streisand."

On stage, Patinkin made his Broadway debut and received a Tony award for his portrayal of Che Guevara in the Andrew Lloyd Webber/Tim Rice musical "Evita." He created the title role of George in the Stephen Sondheim/James Lapine musical "Sunday in the Park with George," which resulted in a second Tony nomination. He currently can be seen in the movie "The Doctor" with William Hurt and Christine Lahti.

Tickets are \$30 and \$25 for students. His performance will replace an appearance by Penn and Teller, which was postponed. Those who have purchased Penn and Teller tickets will be contacted by the Edison Box Office regarding ticket exchange and will be given first-choice seating to "Dress Casual." For information, call 935-6543.