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RECORD

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Former research team awarded Horwitz Prize

Three scientists who worked together at WU in the 1950s received Columbia University's 1983 Louisa Gross Horwitz Prize last week in New York.

The winners are Viktor Hamburger, Edward Mallinckrodt Distinguished University Professor Emeritus of Biology; Rita Levi-Montalcini, professor emeritus of biology; and Stanley Cohen, professor of biochemistry at Vanderbilt University in Nashville, Tenn. Cohen resigned from the WU faculty in 1959.

The Horwitz Prize has been given annually since 1967 for outstanding research in biology or biochemistry. More than half of the scientists who have won the Horwitz Prize subsequently won the Nobel Prize. Levi-Montalcini, who lives in Italy, spoke Friday, Oct. 21, in

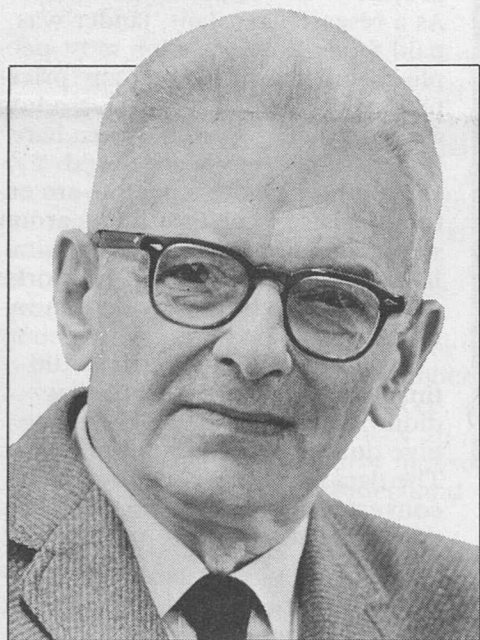
NGF, a protein that is essential for the growth and survival of sympathetic nerve cells and certain sensory neurons. In subsequent work, they showed that this protein is secreted by any cell that might be served by the sympathetic nervous system. NGF attracts and is absorbed by the terminals of sympathetic nerve cells and is carried back to the cell bodies, where it ensures their survival.

Hamburger and Levi-Montalcini used these discoveries to show how nerve fibers make precise connections over long distances with the cells they serve. The scientists' research suggested that outgrowing nerve fibers can sense chemical signals such as NGF over considerable distances and follow them to the fibers' appropriate destinations.

In its citation to Levi-Montalcini, the Horwitz Prize Committee wrote that "one of the major challenges confronting the study of the nervous system is to understand how the millions of neurons in the brain interconnect so precisely. Your groundbreaking work . . . has given us the first truly molecular insights into the detailed mechanisms by which this marvelous biological feat is accomplished."

Hamburger was cited for his lifelong interest in the reciprocal interactions and interdependencies of developing limbs and the spinal motor neurons that innervate them. That basic interest led to his contribution to the discovery of NGF, to pioneering research into the development of the chick embryo, to the establishment of a foundation for the present knowledge of competitive processes in the development of the nervous system, and to the study of the way neural processes control the earliest behavior of embryos. The Horwitz Prize Committee wrote that Hamburger's "love of inquiry, integrity and great human decency has been an inspiration to the many whose lives you have touched."

Continued on p. 6



Viktor Hamburger

Moore Auditorium at the WU School of Medicine on "Nerve Growth Factor (NGF) Activation of Differentiation Programs in Neuronal and Non-Neuronal Cell Lines from Amphibians to Mammals."

Chancellor William H. Danforth said, "I am thrilled to see such a prestigious prize go to such outstanding scientists and such wonderful individuals. Both Viktor Hamburger and Rita Levi-Montalcini have been models of scientific integrity and openness."

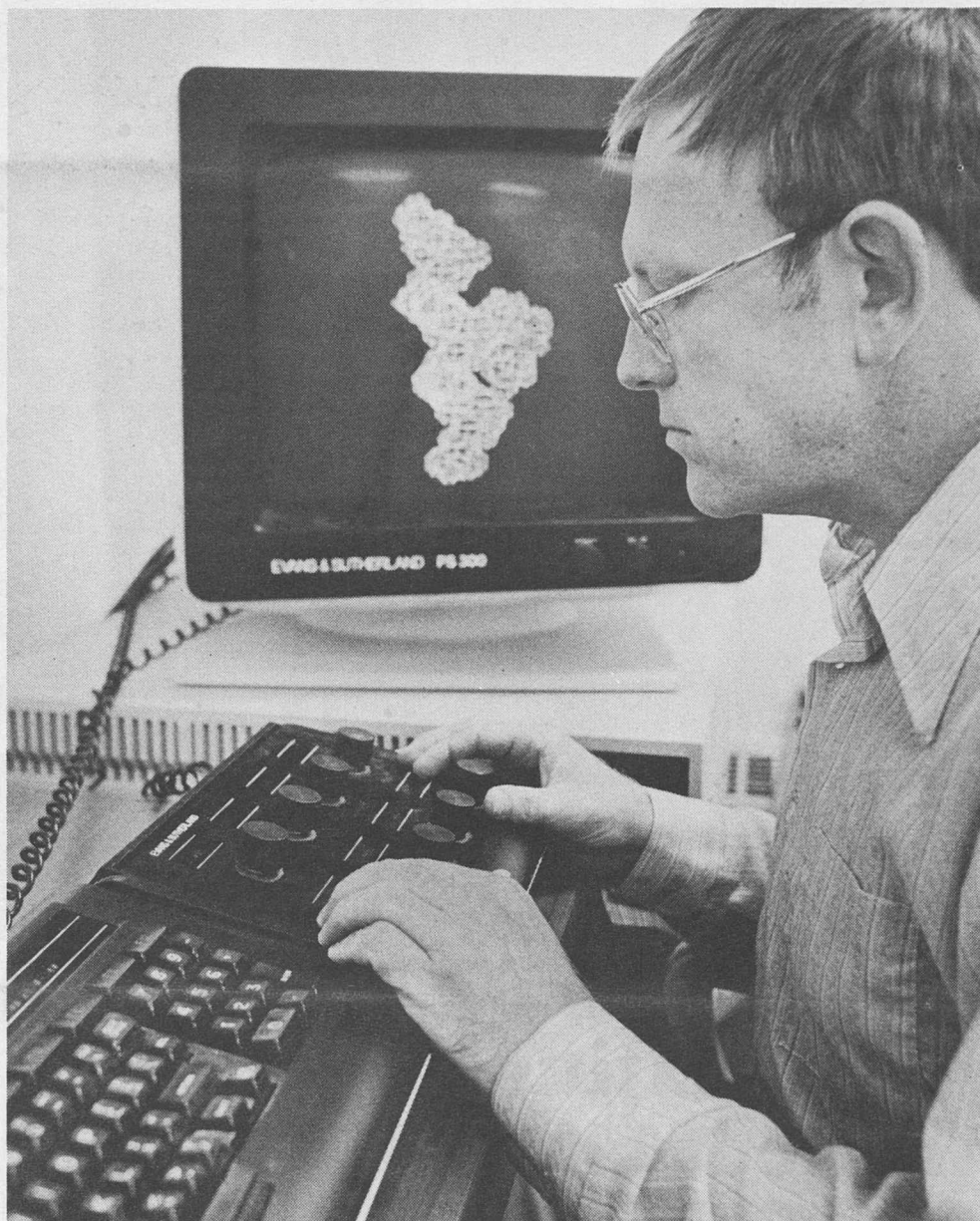
The three scientists' research has been fundamental to the understanding of how cells develop, differentiate and maintain themselves, according to Columbia University President Michael I. Sovern.

Hamburger and Levi-Montalcini both were awarded honorary doctor of science degrees from WU: Hamburger in May 1976; Levi-Montalcini in May 1982. Both also received Founders Day Distinguished Faculty Awards: Hamburger in 1962; Levi-Montalcini in 1971.

During the late 1940s and early 1950s they discovered and studied



Rita Levi-Montalcini



Computers catch on

Computer-aided drug design is one of many innovative uses of the computer currently being explored by faculty and staff researchers on WU's campus. Above, John P. McAlister, a research associate in the Department of Computer Science, works on a software program that will allow biochemists to design drugs by estimating the interaction of one chemical molecule with another before the chemicals are combined in a test tube. The impact of the computer on WU faculty, staff and students and their work is explored in part one of a two-part series beginning on page 4.

Floats, football and parties will lift Homecoming spirits

The 1983 Homecoming has it all, from floats and football to pep rallies and picnics. Although Homecoming officially begins the evening of Thursday, Oct. 27, the WU Band will put everyone in the mood for a fun-filled, three-day extravaganza when they perform at noon on Wednesday, Oct. 26, in Bowles Plaza.

On Thursday, fans can cheer the WU soccer team to victory over Cardinal Newman's team. The soccer game starts at 7 p.m. on Francis Field.

The opening Homecoming activity is set for 9 p.m. Thursday when the Gargoyle Stage, a student variety show, takes center stage in the Gargoyle in Mallinckrodt Center. Following the show, Harry E. Kisker, dean of student affairs, will spin records for dancing.

With this year's Homecoming theme of "Shake It Up," the pep rally participants promise to do just that at noon on Friday. (For those not

familiar with today's pop tunes, "Shake It Up" is the title of a song by the New Wave group, The Cars.) The WU Band, cheerleaders, pom-pom squad, athletic team members and their coaches, pep club and mascot all will be on hand during the pep rally in Bowles Plaza to "shake up" everyone's school spirit.

The Omicron Delta Kappa Circle at WU will celebrate its 50th anniversary during Homecoming weekend. The national leadership honor society will hold a reunion dinner for its members on Friday evening at the WU Club, Mansion House Center, and two symposiums on Saturday morning in Lopata Hall. The visiting ODK members have been invited to take part in the Homecoming activities.

The annual float-building party will begin at 9 p.m. Friday on the South-40. A disc jockey will spin rec-

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Richard Fleming (left) on the set of the movie "Taps" with a fellow extra.

Fascinating freshman reflect class diversity

Every fall, the *Record* reports certain characteristics of the freshman class. With numbers and percentages (see p. 3), we describe how smart and accomplished they are, where they come from, and what they intend to study.

While such a "profile" is useful in assessing the general well-being of the University, it tells us little about the freshmen as individuals and their past and potential accomplishments.

Eight members of the entering class were selected for this story because they are, in some way, atypical. But then, in some way, so is each of their classmates.

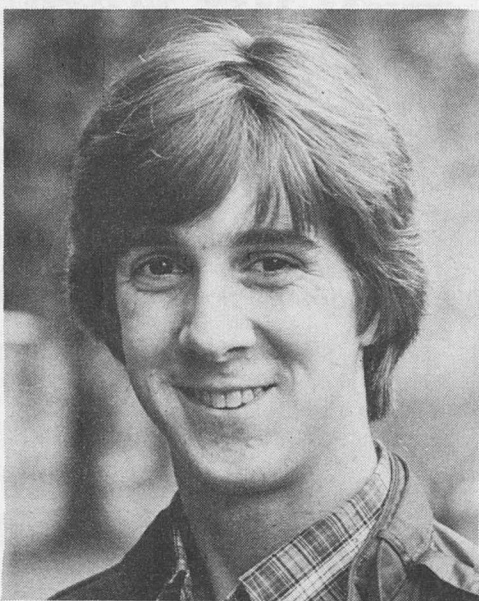
Stephen J. Edwards has a bag of magic tricks. He uses it, he said, "for the purpose of helping others and to share a little sunshine."

In his work with the Clown Ministry in his hometown of Dallas, Texas, Edwards performed magic and mime for children, hospital patients and the elderly. He became involved with the organization as a member of the Spring Valley United Methodist Church. Though the busy fall semester at WU has not allowed Edwards the time to pursue "clowning," he has managed to heighten the spirits of those who tread the Hilltop Campus.

Edwards, who is majoring in fine arts, cartoons for *Student Life*. On a work-study agreement with the tabloid, for which he had to "audition with portfolio," he pens both a comic strip, titled Fleetwood, and special illustrations. Previous recognition provided Edwards with the encouragement to continue his drawing. He

was voted a winner in a statewide editorial cartoon contest two consecutive years in high school. He also was awarded a gold key by Quill and Scroll, an honorary journalism society, in an international competition.

A believer in diversified education, Edwards has cultivated other interests as well. He plays tenor saxophone in the WU Jazz Band and, of course, spends a good deal of time working toward a degree in graphic design and commercial illustration.



Stephen J. Edwards

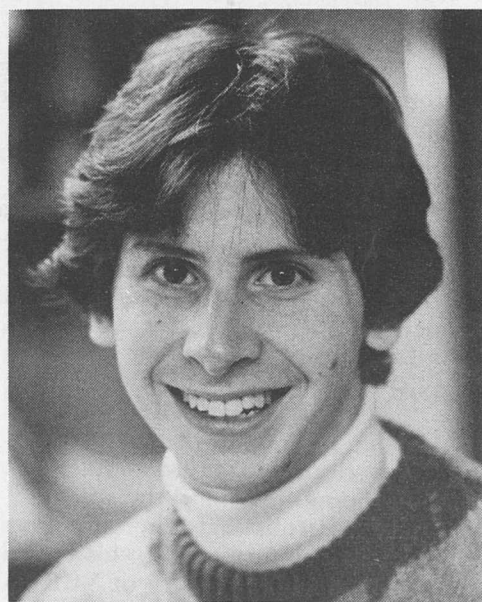
Darrell Fader is a poet and scholar. He has been winning awards for his poetry since he was nine; he also has won math, science, Spanish, Latin and political science awards.

A native of North Woodmere, N.Y., Fader is enrolled in WU's Scholars Program in Medicine (SPIM), which guarantees his admission to the School of Medicine after he completes a bachelor's degree. As an undergraduate, he plans to concentrate on liberal arts, possibly majoring in history.

He launched his career in the medical field as a tenth grader with a study comparing the biological rhythms of mice from Maine, Florida and New York. Letters about his project to several scientists resulted in an invitation from Franz Halberg, a leading chronobiologist, to work as a summer research assistant at the University of Minnesota in Minneapolis.

The following summer, he also worked with oncologist William Hrushesky, monitoring the biological rhythms of cancer patients to assess the effects of certain medications. This past summer, he monitored his own biological rhythms for several days.

He always has wanted to be a doctor, he said, because "the field is fluid, it's always changing, new things are happening every day."



Darrell Fader

When **Richard Fleming** signed up to attend Valley Forge Military Academy in 1980, he had no idea he would be joining the ranks with Timothy Hutton and George C. Scott. Hollywood traveled to Wayne, Pa., the spring of 1981 and the Valley Forge campus became the filming location for the movie "Taps."

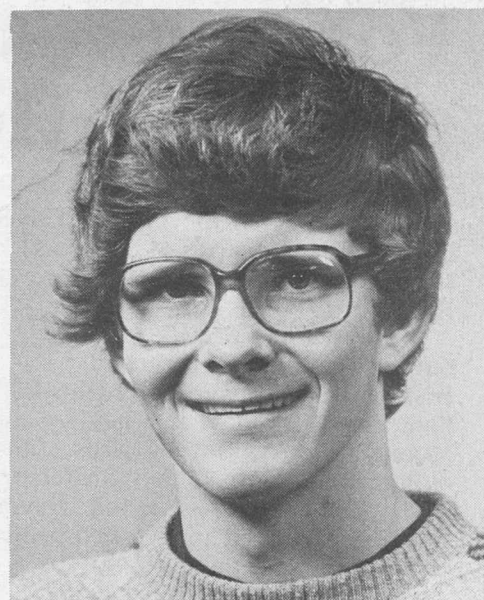
According to Fleming, a native of Hamilton, N.J., the crew used whole corps of cadets for background scenes. "About 40 of us were asked to be filmed in other scenes as well. As one of the selected few, Fleming portrayed a young cadet who 'couldn't cut it.'"

Yet in reality, Fleming found his two years at Valley Forge a positive experience, "one I never will regret, even though it was much stricter than I had expected." He welcomed the opportunity to make friends with fellow cadets from all parts of the world and excelled in many facets of the school's program.

In the second semester of his first year, Fleming was awarded a Certificate of Academic Merit in recognition of improved scholastic achievement. The next year, he was awarded the Manual of Arms Efficiency Badge for having been selected from his company as one of the most proficient cadets with a rifle. He was designated a superior student, rating

silver stars both years at the academy.

As for the present, Fleming said he is enjoying life at WU and will probably pursue a major in some field of science.



Georg Jander

Georg Jander, of Lawrence, Kan., has a lot of nerve. For the past two summers, he has devoted himself unflinchingly to the care and feeding of more than 1,000 bumblebees.

The bees are part of a research project at the University of Kansas. As a research assistant, Jander was paid \$4 an hour for a job most people would shrink from at any price: feeding the bees watered-down honey and holding them between bare fingers while they were tested.

Both of Jander's parents are entomologists, so he is at home around stingers and crawlers of every kind. In lieu of protective gear, he worked under a red light that made him invisible to the bees.

He was stung more than 100 times the first summer, but that didn't faze him enough to decline hive duty when it was offered again. The data he collected is now being converted into graphs for a doctoral dissertation.

Many of us have been known to "talk with our hands," but **Karen A. Koonce**, a native of Memphis, Tenn., literally communicates with her hands a language the deaf can understand. Although Koonce is not deaf herself, she has known sign language for as long as she can remember.

Koonce's older brother, Jerry, has been deaf since birth and, she said, "as he learned sign language, I learned it." Besides using sign language to communicate with her brother, she also has used her "second language" to help teach deaf elementary and high school students in her hometown.

While many teen-agers spend school vacations and holidays as far away as possible from their books and desks, Koonce spent hers in the classroom as a volunteer to help deaf students with their school work. She also helped choreograph theatre productions by deaf students for two consecutive years at the school where she was a student aide.

"It makes me feel good," Koonce said of her decision to spend her free time working with deaf students rather than relaxing and enjoy-

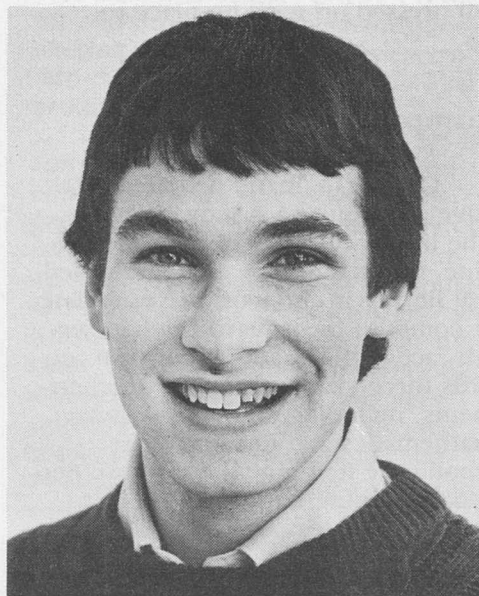


Karen A. Koonce

ing a break from her own studies. "It's a lot harder to learn when you're deaf. You can see the excitement in their faces when they've finally understood something you've been trying to teach them. It's just a fantastic feeling knowing you're a part of that or were there to watch."

James T. Madore, a native of Normal, Ill., was probably one of the youngest editors and publishers in the country when he started *The Stoddard Crier* in the sixth grade while vacationing at his parents' summer home in Stoddard, N.H.

His original publication — a bi-weekly, one-page, mimeographed sheet — grew in five years to a



James T. Madore

12-page, professionally published newspaper with a weekly circulation of close to 5,000, serving the residents of Cheshire County in the southwest portion of the state. He published only in June, July and August.

Madore, a student in the College of Arts and Sciences, said he started the paper when visiting family friends didn't know what to do or see in that part of the state. He combined his interest in journalism and history to write historical pieces on nearby towns and monuments and to interview many of his advertisers about the history of their businesses and services.

"The newspaper was supported only through advertisements," said Madore. "I began with one (advertiser), a local man who owns a marina who eventually wrote a

weekly column for my paper, and gradually built to 75. I was surprised how supportive the local businesses were of an 11-year-old journalist."

Currently serving as a reporter for *Student Life*, Madore hopes to major in either history or political science and minor in international development. After receiving his bachelor's degree, he wants to enroll in law school.

Mary Fran Schweitze didn't think it would happen, but she misses her cattle in Geyser, Mont. She raises "10 to 20" on her parents' ranch; they raise about 200.

The first Simmental calf in the United States was born on her family's ranch in 1968 as a result of artificial insemination. The breed originated in Switzerland. One of the descendants, Mary's heifer, Tara, is a national champion and Tara's little sister, Taralee, is close on her heels.

Mary is a winner, herself. In 1982, she was a 4-H regional winner in veterinary science, placed among the top 10 in the state in the Century Three Leadership Program and was an American Legion Oratorical regional winner.

She also participated in basketball, chorus, track, the Model U.N., cheerleading, and the yearbook and student newspaper staffs. At WU, she plans to pursue three years of liberal arts studies and two years of electrical engineering.

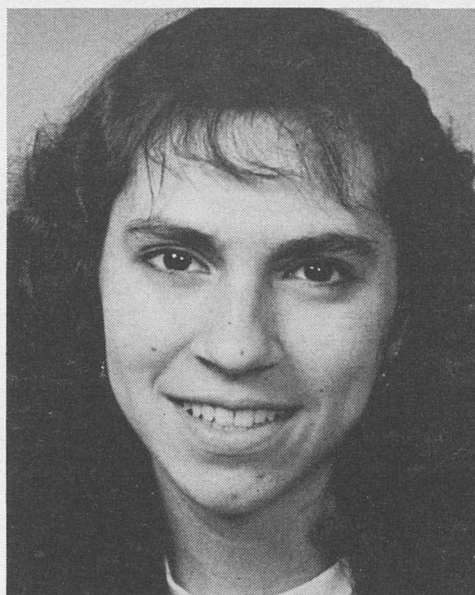
She is surprised by the lack of knowledge of cattle raising among her new friends on campus. She recently phoned a friend in Illinois, who also raises Simmentals, and said, "around here, they don't even know the difference between a cow and a bull!"

While many high school students were out partying on Friday and Saturday nights, **Amy Sonnenschein** of Princeton, N.J., often was at a phone or in a car making sure her peers in town made it home safe and sound.

Sonnenschein, a student in the College of Arts and Sciences, was a senior at Princeton High School and

a student council member when she co-founded Safe Rides, a service for high school students in Princeton who need a ride home on weekend nights because either they or their drivers have had too much alcohol.

Based out of a local church, high school volunteers man a telephone and a citizen's band radio on Friday and Saturday from 10 p.m. to 3 a.m., answering some 30 calls a night. Two driving teams, with two to a team, respond to the calls, picking up students who are within a three-mile radius of the church and driving them home.



Amy Sonnenschein

"We started Safe Rides in response to the rise in drunk driving among teen-agers," Sonnenschein said. "We just wanted to get people home safely." Since the service began operating last December, Sonnenschein said the number of alcohol-related automobile accidents in Princeton has declined.

When Sonnenschein goes home for summer vacation, she plans to help neighboring towns organize Safe Rides services. "Eventually, I'd like to see all of New Jersey covered," she said, "because Safe Rides saves lives."



Mary Fran Schweitze practiced her veterinary skills on her cattle and became a 4-H regional winner in veterinary science. Her academic interest, however, is in electrical engineering.

Statistics reveal high freshman enrollment

WU has announced its 1983-84 freshman enrollment is the second highest in its history — 1,157 as compared to 1,021 the previous year. WU's highest previous enrollment was 1,171 in 1975.

Total enrollment also is up. The increase occurs at a time when national figures show a general decline in college enrollments.

WU's retention average, undergraduates returning to school between the freshman and sophomore year, also is high. The retention average, 90.3 percent, is the second highest in the University's history since 1979 when it was 90.9 percent.

The University reported 4,547 undergraduates enrolling this year as compared to 4,386 in 1982 — an increase of 161 students. The overall total for undergraduates, graduate and evening students enrolling in the 1983-84 school year was 10,903 as compared to 10,763 the previous year, an increase of 140.

Medical school telephone system changes prefix

Frequent callers to the School of Medicine and Barnes Hospital should be advised that the telephone prefix will change from 454 to 362 early in November.

The medical school complex is changing phone systems. The Centrex system now in use will be replaced by the computerized custom Dimension 2000 system, which is quicker and more flexible.

Once the new system is in effect, anyone dialing a 454 telephone number will reach a recording that gives the new 362 number, or else will be transferred to the new exchange automatically.

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The engineering school converted an old ROTC firing range in Cupples II for its new Interactive Computing Facility. The 24-hour facility, part of the Center for Engineering Computing, houses close to 100 keyboards and some three dozen personal computers for use by students.

Computers catch on

Computers revolutionize the way students and faculty approach the business of learning and research

A silent revolution is underway on the campus of Washington University. Behind the Neo-Gothic facade of the buildings, the University is adopting 20th-century technology. Part one of this two-part series examines the changes in both research techniques and teaching in the medical school and the sciences. Part two, which will be published in early December, will examine similar findings in the College of Arts and Sciences, the business school, social work school, Olin Library and dormitories.

- It's 2 p.m. and a busy afternoon at the University's new Interactive Computing Facility. Homework assignments for Computer Science 135 and Electrical Engineering 280 are due the next day, and the personal computer work stations are in high demand.
- At 10 p.m., all is well. At least that's what a small crowd from Math 117 hopes, as they gather at one corner of the facility. Their calculus tests from an hour ago are being computer-totaled and at any minute their scores (listed by social security number) will blink onto the screen.
- By 3 a.m., the earlier crowd has long since left. A few lone computer night owls sit quietly tapping keyboards. The 24-hour room never closes and, apparently, never empties.

Immediately after this engineering school facility at Cupples II Hall opened its doors last month, and before most of the furniture even was assembled, students were there. The attraction was obvious — close to 100 keyboards, including some three dozen personal computers stretching row upon row in a long, narrow attic that once served as an ROTC firing range. The remodeled interior now welcomes a steady stream of visitors with soft lighting, natural wood beams and carpeted floors.

Not that a lack of such fineries would discourage users. The computer revolution has hit WU with full force, and a wide range of disciplines are plugging into it. Studying, teaching and researching a subject never again will be quite the same.

Natural Tool

This year for the first time the majority of undergraduates have access to a computer through introductory courses. The Department of Mathematics alone has handed out sign-on codes to some 1,700 students enrolled in math classes, including calculus, statistics and computer programming. The School of Engineering and Applied Science provides computer time for several hundred undergraduates in its beginning computer science courses, and offers access upon request to all engineering students. Other disciplines are not far behind.

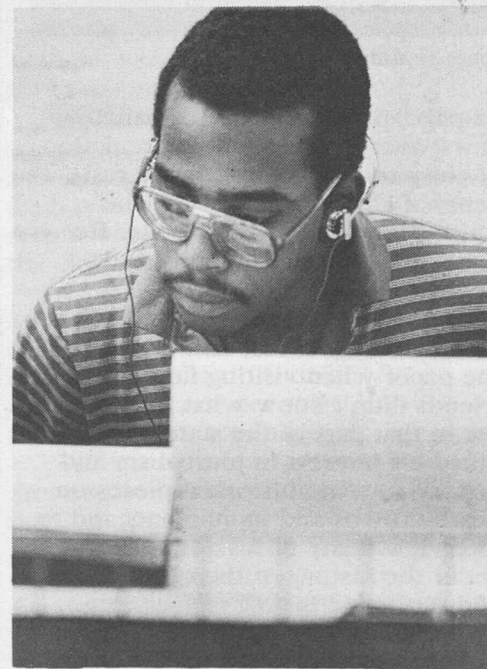
"Computing is becoming a tool — not just an activity for its own sake," says Robert J. Benson, associate vice chancellor and director of the WU Computing Facilities. "It's bubbling up all over campus. In almost every department in every building, things are happening."

The general consensus is that things are happening in the right way. While WU has not adopted the every-student-must-own-a-computer philosophy of some schools, it expects to see continued expansion of computer access to students in fields where computers play a useful role. An important element in the expansion is the faculty. When professors introduce high-speed computing techniques in their courses, students learn to use the computer as a natural tool.

Or as Seymour V. Pollack, professor of computer science, puts it: "You don't want a bunch of people sitting around with their computers 'all dressed up with no place to go.'"

Computer Cataloging

Of course, many people at WU have gone quite a distance already. The library at the School of Medicine, for example, was the first medical library in the world to completely computerize its card catalog, serials, acquisitions and circulation records three years ago. Several departments, including computer science, mathematics and physics, were among the first anywhere to use personal computers routinely in introductory courses. And in 1964, the



Contrary to the beliefs of many, computers can be relaxing and fun. A student in the Interactive Computing Facility in Cupples II combined his work at a printer with music to create a pleasant working environment for himself.

"A story about computers on this campus is like a story about students. They're that pervasive" — Simon Igielnik

prototype of the desktop computer had its first applications here with the founding of the Computer Systems Laboratory (CSL) and the Biomedical Computer Laboratory (BCL).

A review of current computing activities at the University suggests that more "firsts" are likely to follow.

Computer Research

The CSL and BCL, sister labs from the start, now comprise the Institute for Biomedical Computing. Directed by Charles E. Molnar, professor of physiology and biophysics, the institute formalizes 18 years of collaboration between the School of Medicine and the School of Engineering on developing advanced technology to solve problems in biology and medicine. New laboratory space will be provided when Bowles Laboratory opens in mid-November. This fifth-floor addition to Lopata Hall will house three powerful computers for the engineering school. Ongoing computer research projects include molecular modeling of drugs and hormones, biomedical processing and analysis, and improved methods for studying radioactive tracers in the body.

Nearby in Urbauer Hall, the Center for Air Pollution Impact and Trend Analysis (CAPITA) relies on both large mainframe and personal computers to manage and display volumes of data on pollution. "It used to be that 25 to 50 percent of our activities involved the computer," says Rudolf B. Husar, CAPITA director and professor of mechanical engineering. "Now, we're 100 percent into data manipulation. We no longer produce any data of our own."

The center, which specializes in animated displays of emission and climate patterns across wide geographic areas, uses a video camera to take snapshots of color graphic images as they appear on the computer screen. "Before," recalls Husar, "we colored printouts of each image by hand, and spliced them together like a Walt Disney studio. It was very cumbersome." The center also has computerized a catalog of several thousand scientific articles for its library.

Future Satellite?

The National Aeronautics and Space Administration's Regional Planetary Image Facility in the Department of Earth and Planetary Science features another special computer appendage called an array processor. When attached to a middle-sized computer, it performs sophisticated image operations at rapid speeds. The facility also uses video discs which provide access to 50,000 images in five seconds.

According to Raymond E. Arvidson, director and associate professor of earth and planetary sciences, the facility recently opened up its data base to the U.S. Geological Survey in Flagstaff, Ariz., the Jet Propulsion Laboratory in Pasadena, Calif. and the University of Hawaii in a joint networking experiment. At current, data is communicated via phone lines, but a satellite link is under consideration.



In addition to printing out words and statistics, a computer can illustrate the statistics in graphs and charts on a digital plotter.

Although its link is only one-way, the Department of Biology can plug into data managed by the National Institutes of Health on protein and DNA sequencing. Researchers like Alan R. Templeton, professor of biology, use such data to reconstruct complicated genetic maps and revolutionary histories. "Before the computer," says Templeton, "this kind of work would have been impossible."

Many other state-of-the-art research projects using computers abound at WU. "Virtually every department is into computers in a big way," observes Simon Igielnik, director of Medical Computing Facilities at the medical school. "A story about computers on this campus is like a

story about students. They're that pervasive."

In medical and other kinds of scientific research, computers are being used to gather experimental data as well as analyze it. "Most personal computers have the ability to convert motion into digits," explains Edward L. Spitznagel Jr., professor of mathematics and adjunct professor of biostatistics. "That's the principle behind joy sticks and video games. Since most experiments are measuring motion — the force of collision, the intensity of a light beam, the degree an object turns, the quickness of a response — the data can go directly into a computer. The final, more sophisticated analyses," he says, "usually are performed by a main-

frame computer at a later time."

Microwave Link

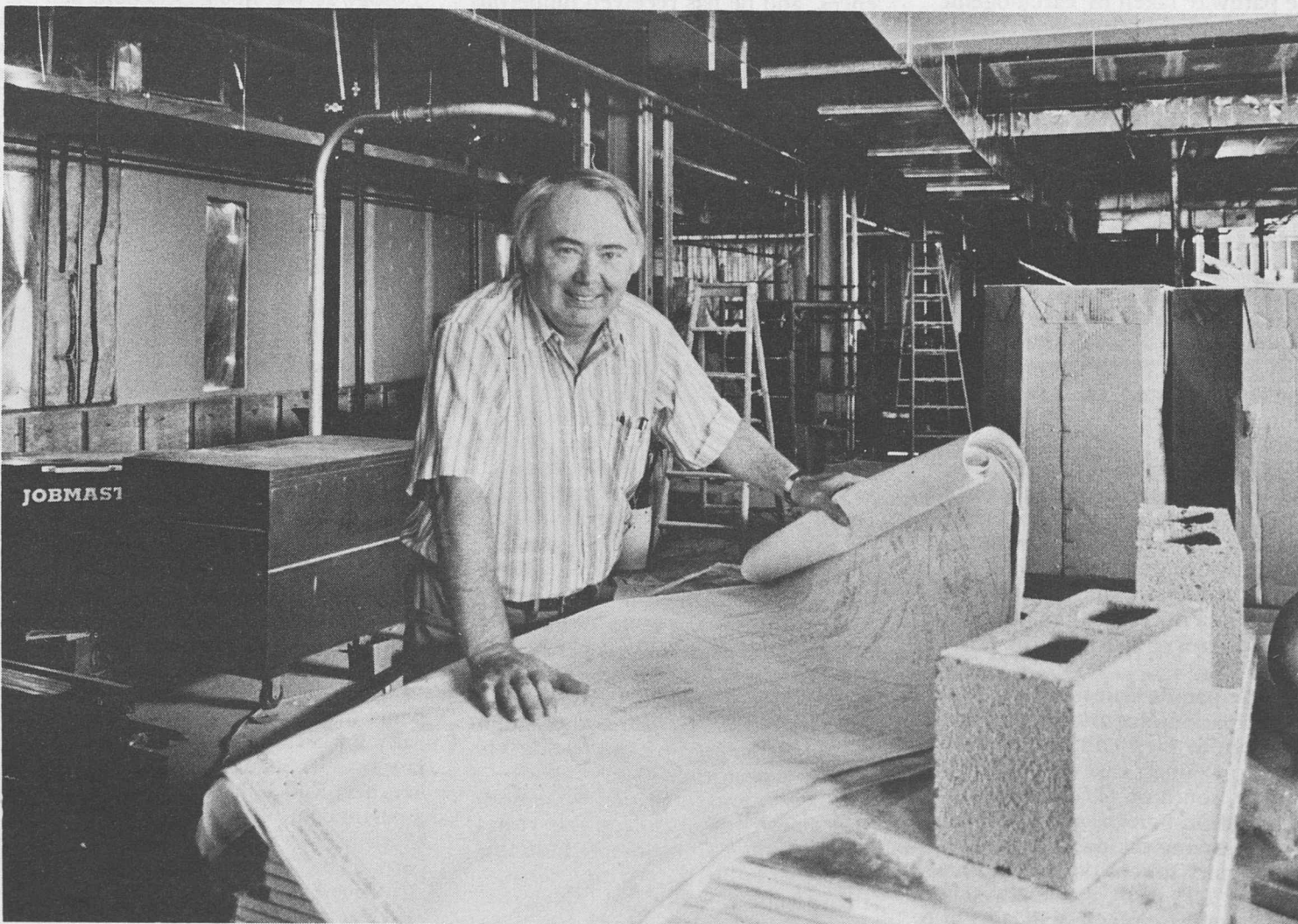
It is just this successful mix of personal computers, mini- or middle-sized computers and mainframes that characterizes WU's decentralized computing system. The WU Computing Facilities support 500 terminals with five mainframes, one of which is used solely for Olin Library's computerized catalogs. The Medical Computing Facilities has nine smaller mainframes, supporting over 200 terminals. A microwave link between the two facilities is near completion, and will result in faster communication at lower costs.

In addition to faculty and students, the administration is using computers more and more for record keeping, accounting, letter writing and mailing labels. Introductory courses for staff, faculty and graduate students are increasingly popular and David Benson, director of the WU Computing Facilities' Personal Computing Education Center, reports that these free, short courses often "sell out" a month ahead of schedule.

In the end, computers will come to everyone. Their particular prowess at computation and information storage and retrieval will be important to humanists conducting literature searches, lawyers preparing cases, businesspeople analyzing markets and scientists interpreting data.

"If a department is at the forefront of its discipline," sums up Pollack, "it will know how computers can be utilized." Judging by the amount of computing activities at the University these days, it's evident that this "knowing" is taking place.

Jill Draper



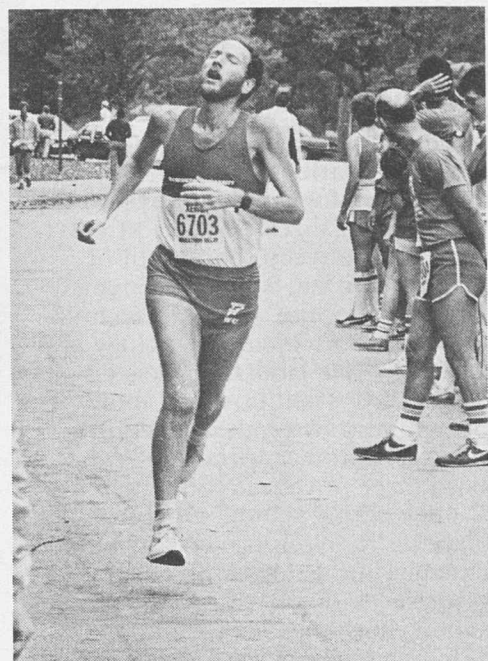
Charles E. Molnar, professor of physiology and biophysics and director of the Institute for Biomedical Computing, checks the progress of a new laboratory being constructed on the fifth floor of Lopata Hall. The lab is expected to open in November.



A day at the races

Photos by Robert B. Schwartz

A 26-mile relay marathon, sponsored by the Xerox Corporation, was held in Forest Park on Sunday, Oct. 9. Twenty WU employees represented the University in the marathon in two teams of 10 runners. One WU team finished second in the 62-team race; the second WU team came in 15th place. Susan Rollins (above, right), a medical school tour guide, received an award for being the fastest woman in the competition. Aaron Shatzman (below, right), assistant dean of the College of Arts and Sciences, was the captain of both teams. Above, team members included (kneeling, left to right): Ronald G. Evens, Aaron Shatzman, and Thomas L. Bugnitz. (Standing, left to right): Jane Dunford, Gary D. Shackelford, Glenn Detrick, Matthew K. McGue, Walter C. Bauer, Rosalind J. Neuman, Christopher L. Gianoulakis, Susan Rollins, Peter H. Ruger, William F. Lobdell, Paul D. Bartholomew, Charles Lutz, Polly Bailey and Eli J. Shrauner. Not shown are: Charles J. Gatti, Blair Harcourt and Edward A. Nussbaum.



Horwitz—*continued from p. 1*

Cohen's early work with NGF led to his discovery of Epidermal Growth Factor (EGF), a substance produced within the body that regulates the growth and differentiation of a number of cell types. The discovery of EGF illuminated a fundamental mechanism of cellular interaction. Subsequent investigations into the way EGF works across a cell membrane has led to the discovery of the pathway taken by carcinogenic products of several viruses. "Knowledge of the pathway you discovered is fundamental to our understanding both of normal cell development and of malignant transformation," the Horwitz Prize Committee wrote.

Hamburger was born in 1900 in Landeshut, Germany. He joined the faculty of WU in 1935 as an assistant professor of zoology. He was made associate professor in 1939, full professor in 1941, Edward Mallinckrodt Distinguished Service Professor of Biology in 1968 and professor emeritus in 1969. He is a member of the National Academy of Sciences and the American Academy of Arts and Sciences, and he has received numerous honors, including the F.O. Schmidt Award in Neuroscience.

Levi-Montalcini was born in 1909 in Turin, Italy. She was a research associate at WU from 1947 to 1951, when she was named asso-

ciate professor of zoology. She became a full professor in 1958 and professor emerita of biology in 1977. She is a member of the National Academy of Sciences, the Society for Developmental Biology, the American Association of Anatomists and the Tissue Culture Association.

Cohen was born in New York in 1922. He joined the faculty of zoology at WU in 1953, where he worked with Levi-Montalcini on the isolation of NGF. He became assistant of biochemistry at Vanderbilt University in 1959, associate professor in 1962 and full professor in 1967.

Football Bears finishing season in fine form

With a 2-3-1 record in the first five weeks of the season, the WU football Bears enter the final three games with high hopes of finishing over the break-even level.

The Bears stopped Culver-Stockton, 16-14; tied Centre College, 0-0; and blanked the University of Chicago, 10-0.

Then they lost a heartbreaker at Southwestern in Memphis, 27-24, when the host Tennessee club rallied for the winning touchdown, with a little over three minutes to play. An outstanding Wabash College blanked the Bears, 48-0, and Principia narrowly defeated the Bears, 17-14, on Oct. 22.

Remaining on the schedule is the homecoming game against DePauw on Saturday night, Oct. 29, a trip to Millsaps College in Jackson, Miss., and the season-finale on Saturday afternoon, Nov. 12, when Rose-Hulman Institute calls.

New coach Fred Remmy has recruited well and instilled discipline and strong fundamentals to mold a team which already has bettered the record of the last three years when the club was 2-7 each time.

Tailback Gerald Dennis is the leading ground-gainer with 449 yards in five games for an average of 89.8 per game. He has 109 rushes for a 4.1 average game per rush. He also has scored two touchdowns.

After a slow start, quarterback Steve Sides has been improving his passing with each game. And sophomore kicker Drew Van Horne has three field goals, including the decisive points against Culver-Stockton.

Tim Ryan has taken over the punting chores and is averaging 39.8, and senior linebacker John Boyle has been another outstanding player.

Homecoming—*continued from p. 1*

ords, while students create some 15 floats. The Congress of the South-40 is sponsoring a Float-Building Break Party from 9 p.m. to 1 a.m. for those who'd like to step inside Wohl Center and warm up with hot chocolate and munch popcorn.

Grand marshal Harry E. Kisker will lead the parade of floats through University City at 4 p.m. on Saturday, Oct. 29. The Student-Alumni Relations Committee has invited alumni and their family and friends to ride in a decorated double-decker bus. To reserve space on the bus, call 889-5232.

The parade will leave the Wohl Center parking lot and head west on Wydown to Big Bend, north on Big Bend to Delmar, east on Delmar to Skinker, south on Skinker to Forsyth and west on Forsyth to Francis Field.

Following the parade, the student-faculty touch football game will begin at 5:45 p.m. on the law school field. A tailgate picnic will start at 6 p.m. outside the Francis Field gates. During the picnic, the BMX Trick Team Cyclists and a jazz band will perform and the floats will

be judged.

Kickoff time for the Battling Bears vs. the DePauw Tigers football game will be at 7 p.m. Saturday. The pom pon squad will perform during the halftime festivities at Francis Field, and the winners of the float awards and Gargoyle Guild awards will be announced. The Gargoyle Guild awards will be given to three faculty members and administrators whom the students have voted as having positively influenced them.

To top off the 1983 Homecoming, and hopefully to celebrate the Battling Bears' victory, a dance will be held immediately following the game in the Gargoyle and Mallinckrodt Gallery. The band Mystic Vision will perform.

A committee headed by senior Bret Eberhardt organized this year's Homecoming. Sponsors include the Office of Student Activities, Residential Life, Alumni and Development, the Congress of the South-40 and Student Union.

Careers in law explored by alumni panel

Three WU alumni will discuss law-related careers during a "Career Connections" panel from 4 to 6 p.m. Thursday, Nov. 3, in the Ann Whitney Olin Women's Building Lounge.

"Career Connections" is a series of panel discussions co-sponsored by Career Planning and Placement and the Student-Alumni Relations Committee. The program is free and open to the public.

Susan Sullivan, assistant dean of WU's School of Law, will lead the panel discussion. The panelists are: Sally Barker, MA '71, a partner in the law firm of Schuchat, Cook and Werner; Robert D. Benjamin, AB '69, a partner in the law firm of Ruppert, Westhus and Benjamin; and Lloyd Jordan, BS '77, founder of the law firm Bussey and Jordan.

For more information, call Rosemary Garagnani at 889-5930.

NOTABLES

Ronald G. Evens, Elizabeth Mallinckrodt Professor and director of the Mallinckrodt Institute of Radiology, delivered the 38th Annual Russell D. Carman Lecture on Oct. 18 for the Greater St. Louis Society of Radiologists and the St. Louis Metropolitan Medical Society. Evens spoke on "Radiology 1984: Big Brother, Big Business, Big Technology, Big Change."

Three faculty members in the Department of Chinese and Japanese participated in the 32nd Annual Meeting of the Midwest Conference on Asian Affairs (MCAA) Oct. 7-8 at the University of Kansas in Lawrence. **Robert Hegel**, associate professor and acting chairman of the department, spoke during a panel discussion on "The Administration of Asian Area Studies in an Age of Declining University Resources." Hegel's subject was "The Washington University Program — Getting Along Without National Resource Funding." **Robert Rolf**, a visiting assistant professor, delivered a paper, titled "Memory and Group Dynamics: Betsuyaku's *Places and Memories*" during a papers' presentation on "Japanese Theatre." **Joseph R. Allen**, assistant professor, worked on plans for next year's conference, which will be hosted by WU. The MCAA is an affiliate of the Association for Asian Studies.

David R. Lee, a research associate in the Department of Genetics at WU's School of Medicine, has been awarded a two-year, \$41,000 special fellowship from the Leukemia Society of America. He is one of nearly 40 investigators receiving the special fellow award this year. The society also has awarded more than 60 five-year scholar and two-year fellow grants to researchers throughout the U.S. and abroad, bringing the number currently funded to about 200. Lee, a postdoctoral student, will isolate all-oreactive T-cell clones against mouse protein mutants to better understand the immune system.

Marilyn Maracle, a graduate student in sociology, presented a paper at the annual meeting of the American Sociological Association held in Detroit the week of Aug. 29. The paper, "Stratification: Indian-White Relations, An Empirical Test of Noel's Theory," was delivered at the session on "Race and Ethnic Relations."

Mohamed A. Marzouk, professor and chairman of operative dentistry; **Ronald D. Gross**, assistant professor of operative dentistry; and **Andrew L. Simonton**, assistant professor of operative dentistry, have contracted to write a book, tentatively titled *Operative Dentistry — Modern Concepts and Practice*, for Ishiyaku EuroAmerican Inc., publishers. The book is scheduled for publication in the spring of 1985.

Silvia Pedraza-Bailey, assistant professor of sociology, presented a paper, titled "Political Disaffection: The Change in Attitudes of Cuba's Refugees From Mariel," on Sept. 29-Oct. 1 at the 11th International Congress of the Latin American Studies Association, in Mexico City.

Betsy S. Rames has been appointed to the post of associate director for business placement at the School of Business and Public Administration. She previously worked as a commercial loan officer with Centerre Bank and as an administrator with IBM. She graduated in 1976 from DePauw University, where she worked part-time in the business placement office.

Lee N. Robins, professor of sociology in psychiatry at the WU School of Medicine, received the 1983 Distinguished Leadership Award from the Mount Holyoke Club of St. Louis on Oct. 27. The award was established by St. Louis area alumnae of Mount Holyoke College to recognize women who have made outstanding contributions to their fields or who have consistently upheld the highest standards in the practice of their profession. Robins, a magna cum laude graduate of Radcliffe College, has worked in the development of instruments to assess levels of mental disorder.

Graphic designer **Bert Vander Mark**, assistant professor of art, recently was awarded an honorable mention for his logo design entered in the Missouri Chamber of Commerce logo contest. He also recently completed a mural in the 30-bed pediatric unit at St. Joseph Health Center in St. Charles, Mo.

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 name, position, department and activity to Notables, Campus Box 1142. Please include a phone number where you can be reached.

Sizer to speak on secondary education study

Theodore R. Sizer, former dean of the Harvard School of Education and chairman of a recent study of secondary schools, will talk on "Teacher Education" at a colloquium Thursday, Oct. 27, at 3:30 p.m. in the Ann Whitney Olin Women's Building Lounge. A reception in the lounge will follow at 4:30 p.m.

The event is cosponsored by the Department of Education and the Danforth Foundation.

In his talk, Sizer will discuss what institutions training future teachers can do to better prepare their students for teaching. He will base his talk on research findings from the four-year study of high schools.

In an article in the October Bulletin of the National Association of Secondary School Principals, Sizer recently previewed recommendations for improving secondary education resulting from the study. The principals' association and the National Association of Independent Schools co-sponsored the study.



The Lyric Opera of Kansas City will present Jacques Offenbach's "La Perichole," a comic opera in three acts, at 8 p.m. Saturday, Oct. 29, in Edison Theatre. Set in 19th-century Peru, the opera tells the tale of two street singers very much in love, but also very much in debt. The need for money prompts Perichole, played by Carol Wilcox Jones, to agree to be a lady-in-waiting for the Viceroy. Through various schemes and elaborate escapades, Perichole and her lover Paquillo, played by Edward Evanko, are finally reunited. See *Calendar* for details.

The future of health care in America to be discussed at Olin Conference

Virginia V. Weldon, deputy vice chancellor for medical affairs and professor of pediatrics at the WU School of Medicine, will be the keynote speaker at the Ninth Annual Mr. and Mrs. Spencer T. Olin Conference on Women at 11 a.m. Wednesday, Nov. 2, in Graham Chapel.

Weldon will speak on "Out of the Temple and Into the Market Place: Changing Perspectives in Medicine." Her lecture is part of the Assembly Series.

The one-day Olin Conference also will feature a panel discussion, led by Weldon, on "The Future of Health Care in America" from 2 to 4 p.m. in Edison Theatre. Both the lecture and panel discussion, along with a reception at 4 p.m. in the Ann Whitney Olin Women's Building Lounge, are free and open to the public.

The Olin Conference and the Mr. and Mrs. Spencer T. Olin Fellowships, which currently provide 26 women with financial support for graduate study at WU, are joint undertakings of the Monticello College Foundation and the University.

Weldon was named deputy vice chancellor in February 1983. She is also vice president of the WU Medical Center and is on the staffs of Barnes and St. Louis Children's hospitals. She began her career at the School of Medicine in 1968 as an instructor and was named professor of pediatrics in 1979.

She received a bachelor of arts degree from Smith College and a doctor of medicine degree from the University of Buffalo School of Medicine.

The panel participants are:

Samuel B. Guze, vice chancellor for medical affairs at WU's School of Medicine and president of the WU Medical Center; Margaret Heagarty, director of pediatrics at Harlem Hospital Center in New York; and James E. Dalton Jr., division vice president of the Hospital Corporation of America in Arlington, Texas.



Virginia V. Weldon

If you've lost your keys, go to the Wohl Center Cage from 8:30 a.m. to 5 p.m. Thursday, Oct. 27, and you may find them. The cage is on the ground floor across from the Coop.

Terrie True of Wohl Center said she has car keys, apartment keys and dormitory keys in the lost and found area. For more information, call 889-5064.

CALENDAR

Oct. 27-Nov. 5

Friday, Oct. 28

7:30 p.m. Inter-Varsity Christian Fellowship Meeting. "Mightiness, Holiness and Glory of God," O. Palmer Robertson, prof. of Old Testament Theology, Covenant Theological Seminary. Green Stuffs Line, Wohl Center.

Saturday, Oct. 29

3:45 p.m. Homecoming Parade Ride for Alumni and Their Families. Meet at Francis Field parking lot. Sponsored by Student-Alumni Relations Committee. Admission \$2.50 a person; children under six free. For more information, call 889-5232.

Sunday, Oct. 30

6 p.m. Interdenominational Vesper Service with Paul MacVittie, director, WU Protestant Center. Graham Chapel.

Tuesday, Nov. 1

1 p.m. Personal Computing Education Center Short Course. "Doing Graphics with Cuechart." (Also Nov. 2-4, same time.) Location to be announced. Free to WU faculty, staff and students. For more information, call 889-5313.

Friday, Nov. 4

7:30 p.m. Inter-Varsity Christian Fellowship Meeting. "Christ the Intercessor," Dan Rokusek, WU student. Green Stuffs Line, Wohl Center.

LECTURES

Thursday, Oct. 27

3:30 p.m. Department of Education and Danforth Foundation Colloquium on Teachers' Education with Theodore R.Sizer, former dean of the Harvard Graduate School of Education and now chairman of a national project, titled "A Study of High Schools." Ann Whitney Olin Women's Bldg. Lounge.

4 p.m. Center for the Study of Public Affairs Lecture. "Planning Public Policy in Education," Jerome B. Jones, superintendent, St. Louis public schools. 200 C & D Eliot Hall.

8 p.m. The Annual Mr. and Mrs. Saul A. Dubinsky Lecture. with Jack Beal and Sondra Freckelton, realist painters. Co-sponsored by the School of Fine Arts and the Mid-America College Art Association. Steinberg Aud.

Friday, Oct. 28

Noon. Department of Psychiatry Lecture. "Excitatory Transmitters as Neuropathogens: An Overview," John Olney, WU prof. of psychiatry. 7th fl., conference room, Renard Hospital, 4940 Audubon.

2 p.m. McDonnell Lab. for Psychical Research Seminar. "Discussion of Presenter's Pioneering Work in the Development and Use of PK (psychokinesis) Testing Devices," W. E. Cox, retired field representative, Parapsychology Institute. 117 Eads.

2:30 p.m. Technology and Human Affairs Seminar. "Development of State Natural Resource Policy," Nancy A. New, asst. to the director of the Missouri Dept. of Natural Resources. 104 Lopata.

Saturday, Oct. 29

7:30 a.m. The Medical Consequences of Nuclear Weapons and Nuclear War Symposium. Presented by the WU School of Medicine, the St. Louis U. Medical Center and the St. Louis Metropolitan Medical Society. Organized by Physicians for Social Responsibility. Chase-Park Plaza Hotel. Registration fee for general public is \$15. For more information, call 454-7105.

9 a.m. Neural Sciences Seminar. "Rhodopsin and Bacteriorhodopsin: Structure and Function Relationships," Christine Blazynski, WU post doctoral trainee in ophthalmology. 928 McDonnell Medical Sciences Bldg., 4565 McKinley.

Monday, Oct. 31

4 p.m. Department of Biology Seminar. "The Synthesis and Targeting of Lysosomal Enzymes," Stuart Kornfeld, WU prof. of medicine. 322 Rebstock.

4 p.m. Department of Psychology Colloquium. "Neuropsychological Assessment," Murial Lezak, psychologist at VA Medical Center, Portland, Ore. 102 Eads.

8 p.m. School of Architecture Lecture. "Criticizing the Art of Fascism," Joan Berg Blumenfeld, visiting asst. prof. of arch. Steinberg Aud.

Tuesday, Nov. 1

6:30 p.m. Student-Alumni Relations Committee Spectrum Lecture Series. "The Entrepreneur in the Corporate Structure," Norm Schwesig, vice pres., Client Information, Services Group, Maritz Motivation Co. Alumni House, 6510 Ellenwood. Admission is \$2.50. For more information, call 889-5122.

Wednesday, Nov. 2

11 a.m. Ninth Annual Olin Conference. "Out of the Temple and Into the Market Place: Changing Perspectives in Medicine," Virginia Weldon, WU deputy vice chancellor for medical affairs and prof. of pediatrics. Co-sponsored by WU and the Monticello College Foundation. Graham Chapel.

2 p.m. Olin Conference Panel Discussion. "The Future of Health Care in America." Edison Theatre.

4 p.m. Department of Physics Colloquium. "Soft X-ray Emission Spectroscopy of Solids," Stephen E. Schnatterly, U. of Va. 204 Crow.

8 p.m. Department of English Poetry Reading with W. S. Merwin, WU Visiting Hurst Professor, reading from his work. Hurst Lounge, Duncker Hall.

Thursday, Nov. 3

2:30 p.m. Department of Mechanical Engineering Seminar. "Isochronous Stress-Strain Curves for Sheet Molding Compound," K. L. Jerina, WU assoc. prof. of mech. engineering. 100 Cupples II.

4 p.m. Department of Chinese and Japanese Lecture. "Education in Japan," Hidetoshi Kato, prof. of sociology, Gakushuin U., Tokyo. Brown Hall Lounge.

4 p.m. Undergraduate Lecture on Political Economy. "Political Economy: What Does It Get From Political Science and What Does It Get From Economics?" William H. Riker, WU Visiting Distinguished Professor of Political Economy. Sponsored by the Committee on Political Economy. 200 C & D Eliot.

4 p.m. Student-Alumni Relations Committee Panel Discussion. "Careers in the Law." Also sponsored by Career Planning and Placement. Ann Whitney Olin Women's Bldg. Lounge.

Friday, Nov. 4

3 p.m. Department of Music Lecture. "Singing Style at the Academie Royale de Musique in Rameau's Time," Nicholas McGegan, WU artist-in-residence, and Gina Spagnoli, WU doctoral candidate in musicology. Blewett B-8.

6 and 8:30 p.m. WU Association Travel Lecture Series. "Egypt, Gift of the Nile," Douglas Jones, photographer. Graham Chapel. For ticket information, call 889-5122.

EXHIBITIONS

Le Volume Bleu et Jaune (The Blue and Yellow Volume), an exhibition of photographs and drawings of the Villa Medici, Rome, from 1972-74 by five French architects. Nov. 1-24. Givens Hall, 1st floor corridor. Open 8:30 a.m.-5 p.m. weekdays.

"Reflections of African Artistry." Through Oct. 30. Gallery of Art, print gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends.

"Modernism at Midstream." Through Nov. 16. Gallery of Art, upper gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends.

"St. Louis Photo Invitational." Through Oct. 30. Bixby Gallery. 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends.

"Landscape Traditions in the 19th Century." Through Oct. 30. Gallery of Art, lower east gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends.

"Cubists and Surrealists." Through Jan. 8. Gallery of Art, lower west gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends.

"Richard Wagner: 1813-1883." Through Dec. 1. Olin Library, third level. Open regular library hours.

"Honoring Evarts A. Graham." Through Nov. 25. WU School of Medicine library annex, 615 S. Taylor Ave. Open 8:30 a.m.-5 p.m. weekdays.

"The Tradition of Excellence: Contemporary Fine Printing From Private Presses." Through Dec. 30. Special Collections, Olin Library, 5th level. Open weekdays 8:30 a.m.-5 p.m.

Spectacular Vernacular: Traditional Desert Architecture From West Africa and Southeast Asia. Through Oct. 31. 1st fl. corridor, Givens Hall. Open 7:30 a.m.-11 p.m. weekdays.

PERFORMANCES

Thursday, Oct. 27

8 p.m. Holy Roman Repertory Company Concert. "Holy Roman Radio: Love and Marriage." Directed by Hollis Huston, artist-in-residence in drama, and Nicholas McGegan, visiting artist-in-residence in music. Drama Studio, Mallinckrodt Center. Admission is \$3; \$2 for students only on Oct. 27. Tickets can be purchased in advance at the Edison Theatre box office, 889-6543, or at the door. (Also Fri., Oct. 28, and Sat., Oct. 29, 8 p.m., Drama Studio.)

Saturday, Oct. 29

8 p.m. Edison Theatre presents Kansas City Lyric Opera in "La Perichole." Offenbach's comic opera set in Peru. Directed by Russell Patterson. General admission, \$8; WU faculty, staff and area students, \$5 and WU students, \$4. For more info., call the Edison Theatre box office, 889-6543.

MUSIC

Thursday, Oct. 27

7:30 to 10 p.m. WU Jazz Ensemble Auditions. Tietjens Hall. For audition times, call the Department of Music, 889-5581.

Monday, Oct. 31

8 p.m. Department of Music British Folk Music Concert. Featuring Martin Carthy, John Kirkpatrick and Howard Evans. Also sponsored by Music Folk. General admission, \$5. For more info., call the Department of Music, 889-5581, or Music Folk, 961-2838. Graham Chapel.

Tuesday, Nov. 1

8 p.m. Department of Music Graduate Voice Recital with Elizabeth Neiman, mezzo-soprano. Stix House, 6470 Forsyth.

FILMS

Thursday, Oct. 27

7 and 8:30 p.m. WU Filmboard Series. "Nosferatu." \$2. Brown Hall Aud.

Friday, Oct. 28

7 and 9:30 p.m. WU Filmboard Series. "Cat People." \$2. Brown Hall Aud. (Also Sat., Oct. 29, 7 and 9:30 p.m. and Mon., Oct. 31, 7 p.m., Brown.)

Midnight. WU Filmboard Series. "Night of the Living Dead." \$1.50. Brown Hall Aud. (Also Sat., Oct. 29, same time, and Mon., Oct. 31, 9:30 p.m., Brown.)

Wednesday, Nov. 2

7 and 10 p.m. WU Filmboard Series. "Hamlet." \$2. Brown Hall Aud. (Also Thurs., Nov. 3, same times, Brown.)

Friday, Nov. 4

7 and 9:30 p.m. WU Filmboard Series. "Diva." \$2. Brown Hall Aud. (Also Sat., Nov. 5, and Sun., Nov. 6, same times, Brown.)

Midnight. WU Filmboard Series. "The French Connection." \$1.50. Brown Hall Aud. (Also Sat., Nov. 5, same time, Brown.)

SPORTS

Thursday, Oct. 27

7 p.m. Soccer. WU vs. Cardinal Newman College. Francis Field.

10:30 p.m. Hockey. WU Hockey Club vs. UMSL. Affton Rink.

Saturday, Oct. 29

1 p.m. Women's Volleyball. WU vs. Fontbonne College. Women's Building.

7 p.m. Homecoming Football. WU vs. DePauw U. General admission, \$3; WU students free. Francis Field.

Monday, Oct. 31

7 p.m. Hockey. WU Hockey Club vs. Parks College. N. County Rink.

Thursday, Nov. 3

10:30 p.m. Hockey. WU Hockey Club vs. St. Louis U. Affton Rink.

Saturday, Nov. 5

1 p.m. Men and Women Swimming. WU vs. U. of Evansville. Forest Park Community College.

7 p.m. Soccer. WU vs. Wheaton College. Francis Field.

Calendar Deadline

The deadline to submit items for the Nov. 10-19 calendar of the *Washington University Record* is Oct. 27. 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. Address items to King McElroy, calendar editor, Box 1142.

Woman's Club sponsors tour, smorgasbord

A Swedish smorgasbord and a guided walking tour of the University are two events being held next month for members of the Woman's Club of WU. The smorgasbord will be at 12:30 p.m. Friday, Nov. 4, in the Stix International House, 6470 Forsyth Blvd.

Following the smorgasbord, Kerstin Jawerth of Lund, Sweden, will present a slide lecture on life in Sweden, Jawerth's husband, Bjorn, is a WU visiting assistant professor of mathematics.

The cost of the smorgasbord is \$2 for Woman's Club members and \$3 for their guests. For reservations, call Jan Welty at 721-1015 or Ruey Brooks at 647-7294. The deadline for reservations is Tuesday, Nov. 1.

The guided walking tour of the campus will start at 10 a.m. Saturday, Nov. 5, on the front steps of Brookings Hall. Refreshments will be served after the tour.

Reservations for the free tour are required and can be made by calling Helen Rode at 993-8771 or Rose Salisbury at 725-0941.