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RECORD

Washington
WASHINGTON · UNIVERSITY · IN · ST. LOUIS

Vol. 14 No. 15/Dec. 14, 1989



A rich treasure house: Patty Jo Watson, Ph.D., professor of anthropology, made a recent trip to the Salts Cave portion of Kentucky's Mammoth Cave System, Mammoth Cave National Park, where, for the past 26 years, she has been documenting and interpreting the remains left by prehistoric people who explored and mined portions of the world's longest cave beginning 4,000 years ago. The most important aspect of her cave archaeology work, which includes other caves throughout Kentucky and Tennessee, is investigating the origins and early development of plant cultivation in eastern United States. Through the years, Watson and colleagues have found perfectly preserved vegetal remains, ancient human feces, charred food, gourd vessels and other artifacts in the dry passages of these caves, which she refers to as "rich treasure houses of archaeological materials." Watson and various crews of students and scientists do research at the caves several times a year.

Research is under way on high-speed, fiber optic communications network

To demonstrate the technical feasibility of the first "fast-packet" network of its kind — a high-speed, fiber optic communications network that will have the capability of transmitting voice, data, video and high-resolution images — Washington University has signed three research agreements with Southwestern Bell Telephone Co., SBC Technology Resources Inc., and NEC America Inc.

The research program is being conducted at the University with each of the sponsoring corporations contributing to the various phases of the \$5 million three-year project. The University and the sponsors expect this research to be extremely important for the demonstration and validation of future broadband communications services and applications. A demonstration of the unique broadband switching network, commonly known as a fast-packet network, is scheduled to take place in 1991.

Researchers at the University's Mallinckrodt Institute of Radiology will experiment with the real-time transmission of high-resolution radiological images. It is expected that such capabilities eventually will provide physicians with rapid access to these images, thus providing faster and more efficient patient care in the future. For example, doctors may one day be able to call up a patient's record — complete with radiological images — on a remote work station and make diagnostic decisions before scheduling surgery or other therapeutic measures.

The broadband packet network, designed by Jonathan S. Turner, Ph.D., associate professor of computer science, is a design that is consistent with the broadband telecommunications networks expected to be standardized and deployed over the next decade.

The demonstration network will consist of four broadband packet switching nodes interconnected by fiber optic cable; they will be deployed in the St. Louis metropolitan area to provide a test bed for the potential applications of extremely high-speed switching systems. Each 16-port switch will have an aggregate switching capacity of 1.6 billion bits per second, operating at 100 million bits per port. The architecture is scalable to over one gigabit (one billion bits) per port with over one terabit (one million million bits) aggregate capacity.

The research network's transmission rates will be more than 1,000 times faster than the current state-of-the-art telephone systems, enabling the real-time transmission of image and video services as well as voice and data.

Such systems may one day be used to distribute high-definition television (HDTV), which will provide high-resolution images on an extra-wide screen with audio and video that approach movie theatre quality. Other applications for such a system include business and educational video conferencing, multi-media voice, data

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'Work hard and still not make it?'

Working poor: fastest growing segment of poverty population

With the holiday season upon us, families throughout America are decorating their homes with Christmas trees and lights, buying gifts for relatives and friends, and enjoying an abundance of food and drink at holiday gatherings.

However, for a growing number of households — households in which at least one family member works — the holiday season is just a grim reminder of what little they have.

According to a recently released report prepared by seven students and a professor in the George Warren Brown School of Social Work, the number of working Americans who are poor has swelled during the 1980s. And the future does not hold much promise: the fastest growing segment of the poverty population is the working poor.

"The public has a misconception about who the poor are. Most people who live below the poverty line are not welfare recipients and members of the underclass, but they are people who have a job or are members of a household where someone has a job," says Michael A. Sherraden, Ph.D., associate professor in the social work school and coordinator of the project.

The report, titled "The Working Poor," was prepared by students in Sherraden's seminar on "Current Issues in Employment and Social Welfare" in collaboration with the St. Louis Division of the Missouri Association for Social Welfare (MASW). Mary Weiler, a master's degree candidate in the social work school, presented the report to a Nov. 29 meeting of MASW.

"This class project was more than merely fulfilling the requirements for a course," says Weiler. "We're bringing some attention to a serious problem that is facing the nation — a problem that is undermining the value of working and getting ahead."

The other graduate students in social work who helped prepare the report are Barbara Cigarroa, Dorothy Dimiduk, Paige Janowski, Lori Kabrun, Eve Newton and Joy Zimmerman.

Some startling statistics in the report include:

- Approximately one out of 10 full-time workers in the United States does not earn enough to raise a household of three above the poverty line. (For a household of three, the annual poverty income level in 1989 is \$10,060.)
- Compared with figures in 1978, 562,000 more people in 1987 worked full time, yet lived in poverty.
- Of the homeless in America, an estimated 10 to 20 percent are the working poor.
- Missouri has a higher poverty rate than the national average, with 16 percent of Missourians living in poverty. According to a study by the Urban Information Center at the University of Missouri—St. Louis, 48.2 percent of employed Missourians earn less than \$15,000 a year. The MASW reports that an estimated 44 percent of new jobs created between 1979 and 1985 in Missouri paid less than \$7,400 a year.
- The number of typically low-paying service sector jobs (janitors, cooks, waiters, counter attendants and clerks) in metropolitan St. Louis has increased 95 percent over the past 20 years. Projections to 1995 estimate that among the 15 fastest growing occupations in Missouri, 10 will be low paying.
- This year, an estimated 44,000 workers in the St. Louis metropolitan area earn at or below the minimum wage — \$3.35 an hour. According to an early 1989 study, a full-time employee making minimum wage, earns 30 percent, or \$2,900, less than the poverty line.

Along with these grim facts and figures on the working poor came recommendations to help those who are holding down jobs yet struggling to afford shelter, food and clothing.

Although a federal minimum wage increase recently was approved, "The Working Poor" authors recommend that advocates start working

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United Way campaign a success

Proceeds of Washington University's 1989 United Way campaign topped the quarter million dollar mark this year, a gain of 20 percent over last year's campaign total. The 1989 goal was \$230,000.

"The generosity of the Washington University community is remarkable," said Chancellor William H. Danforth. "I know that many in need of help will benefit throughout the coming year because of our increased contributions to the United Way. My special thanks go to Bob Franklin and to the many volunteers who worked to make this year's campaign a success."

"What the University has accomplished in just the last two years is extraordinary," said Franklin, Washington's United Way campaign chairman and manager of Accounts Payable. "In that time the total amount of money raised and the number of people who have chosen to contribute both have increased by more than 50 percent. Our employees seem to be focusing on United Way as a worthwhile project through which all parts of the University can participate together in providing a real boost to the St. Louis community."

Contributions to United Way support more than 140 health and

human service organizations that provide a broad range of programs and services to families and individuals in the St. Louis area. The University's Campus Y and Central Institute for the Deaf receive United Way funding.

Clarence C. Barksdale, vice chairman of Washington University's Board of Trustees, serves as 1989 chairman of the United Way of Greater St. Louis. "I congratulate all those who participated in the Washington University United Way drive," said Barksdale. "It was a most successful campaign and because the St. Louis drive is only as good as its components, our success at Washington University was part of the reason the entire campaign exceeded its goal of \$46.7 million."

Happy Holidays!

The Record will not be published during the semester break. This is the last issue of 1989; publication will resume Jan. 18, 1990. The Record staff wishes our readers a joyful holiday season and a happy and healthy new year!



Children's theatre: Four St. Louis theatre companies are joining together for the first time to present a children's theatre series this winter, sponsored by the Department of Performing Arts. Each company will present two shows, at 11 a.m. and 1 p.m., in the Drama Studio, Mallinckrodt Center. The Black Repertory will open the festival on Jan. 13 with two different shows: "Takunda" at 11 a.m. and "Mirandy and Brother Wind" at 1 p.m. On Jan. 27 the Imaginary Theatre Company will present "Hansel and Gretel"; Feb. 3, Muni Student Theatre Project presents "Rip Van Winkle"; and Feb. 10, the Performing Arts Department presents "Princess Rabbit," a children's story by A. A. Milne, author of *Winnie the Pooh*. Last year the department staged "Jack and the Beanstalk" (above) for school children. Tickets are \$5 for parents and \$3 for children. For more information, call 889-6543.

Poland on right track, says Weidenbaum after presidential fact-finding mission

A high-level U.S. delegation to Poland has come away impressed with the ambition and dedication of the country's new democratic leadership, says Murray L. Weidenbaum, Ph.D., Edward Mallinckrodt Distinguished University Professor and director of the University's Center for the Study of American Business.

"The Polish government and its people face a truly awesome task, yet nobody knows at this time just how far the country can go," said Weidenbaum, a member of the fact-finding mission that toured Poland from Nov. 29 through Dec. 2 at the request of President George Bush.

Bush announced the mission in late October while grappling with a decision on an aid package for Poland. The delegation, which included top government, business, labor and academic leaders, was asked to make recommendations on how the United States could best assist reform in Poland.

The U.S. delegation included Agriculture Secretary Clayton Yeutter, Commerce Secretary Robert Mossbacher and Labor Secretary Elizabeth Dole, as well as Michael Boskin, chairman of the Council of Economic Advisers.

Also making the trip were labor leaders Lane Kirkland and Robert Giorgine of the AFL-CIO; corporate executives Michael Harper of ConAgra and John McGillicuddy of Manufacturers Hanover; professors Gale Johnson and Arnold Harberger of the University of Chicago; and Edward Moskal of the Polish-American Congress.

"Poland's move toward a more market-oriented economy requires political and economic changes that will be extremely wrenching, but what impressed nearly everyone on this trip was the ability and the dedication of senior officials in the new government," Weidenbaum said.

Although a liberal sprinkling of the former communist bureaucracy or "nomenklatura" still hold office in Poland, many top-level government positions are now held by Solidarity

members. Many of the new leaders are young intellectuals with academic backgrounds.

"I was very impressed with the intelligence, educational level and especially the dedication of senior people in the government," said Weidenbaum. "Some of them haven't taken a day off since they took office several months ago."

Although no one seems to doubt the Polish government's desire for economic change, some critics doubt that the country is capable of realizing its ambitious goals. While Weidenbaum agrees that reform will not come easy, he said the Poles seem to be on the right track.

In his opinion, one of the most critical problems facing the new government is inflation — prices rising at an average annual rate of more than 900 percent. He adds that the government has added to inflationary pressure by refusing to devalue its currency, the zloty, and by sticking to an "easy money" monetary policy.

Despite these problems, the government's general plan of attack and its grasp of priorities seem to be sound, said Weidenbaum, noting that the country does have many factors working in its favor.

"The entrepreneurial spirit of the Polish people is greatly underrated," he said. "The country's workforce is young and relatively well educated and it has one of the lowest wage levels of any industrialized nation."

Weidenbaum points out that modern history provides many examples of nations moving from capitalism to communism. However, there is little precedent for reversing that movement. He says that is what makes the changes in Poland so important to the people of the Free World.

"If the current liberalization effort works, the Poles will have demonstrated that the movement to Marxism is truly reversible," said Weidenbaum. "Communism will be seen, not as the wave of the future, but as a dismal reminder of the past."

Introductions to new faculty

The Record is featuring a weekly series profiling new faculty on the Hilltop and Medical campuses. The introductions include faculty who joined the Washington University community between January 1989 and September 1989.

Marcia K. Armstrong, Ph.D., assistant professor of marketing, was an instructor for undergraduate marketing management courses and a research and teaching assistant at the University of Texas at Dallas before joining the Washington University faculty. A member of Phi Kappa Phi and Phi Theta Kappa honor societies, Armstrong received her bachelor's degree with honors from New Mexico State University in 1978, her master's in consumer science from Texas Tech University in 1982, and her doctorate in management science from the University of Texas at Dallas in May 1989. Her research interests include sales promotion strategy, channel intermediary influence, pioneering products and modeling of marketing phenomena.

Clarissa M. Cheney, Ph.D., assistant professor of genetics, comes to the School of Medicine from Johns Hopkins University, where she was an assistant professor of biology. Previously she had been an associate research scientist and postdoctoral fellow at Johns Hopkins. She received her bachelor's degree in 1969 from

Goucher College, her master's degree in 1970 from Yale and her doctorate in 1979 from the University of Pennsylvania, all in biology. In 1988 she received the George Owen Teaching Award for outstanding teaching at Johns Hopkins. Her research interests include the role of the cytoskeleton in the organization of the early embryo, developmental phenotypes of cytoskeletal and mitotic mutants in *Drosophila*, and isolation of colchicine-resistant mutants in *Drosophila*.

Helen Donis-Keller, Ph.D., professor of genetics in the departments of genetics and psychiatry, was senior research director in the Department of Human Genetics at Collaborative Research Inc. in Bedford, Mass., before joining Washington's medical school faculty. She also is director of the Human Genetics Linkage Laboratory at the University's Center for Genetics in Medicine. She received a bachelor's in natural science in 1973 and an honours bachelor's in biology, both from Lakehead University, Thunder Bay, Ontario, and her doctorate in biochemistry and molecular biology from Harvard in 1979. Her research interests include high resolution genetic linkage mapping of the human genome, genetic mapping and molecular genetic studies of multiple endocrine neoplasia types 2A, 2B, schizophrenia, and affective disorders.

Susan Weitman, 31, dies unexpectedly; daughter of University's photographer

Susan Carolyn Weitman, 31, faculty secretary at the School of Law and daughter of Herbert Weitman, director of Photographic Services and adjunct professor in the School of Fine Arts, died unexpectedly Dec. 8. A memorial service will be held at 12:30 p.m. Wednesday, Dec. 13, at Temple Emanuel, 12166 Conway Road.

Weitman had worked as a faculty secretary for law professors Neil N. Bernstein, Richard J. Lazarus and Daniel L. Keating since June. "She was only here for a short time, but we all realized she had many fine attributes," says Bernstein. "We're sad about her untimely death."

Weitman also worked in clerical positions for several other departments on the Hilltop and Medical School campuses. During the summer of 1982, she worked for the School of Medicine's Department of Obstetrics

and Gynecology and later began employment on the Hilltop campus at University College, where she worked as a secretary for nearly three years. She also worked for the School of Architecture as an administrative secretary.

Weitman attended Horton Watkins High School in Ladue and received a certificate in the medical office assistant program at St. Louis Community College at Forest Park.

In addition to her father, Weitman is survived by her mother, Fanchon Weitman; her brother, Gary, of Chicago, a 1979 arts and sciences graduate of Washington; and her grandmothers, Helen Arkush and Marie Weitman, both of St. Louis.

In lieu of flowers, the family requests contributions be sent to the Animal Protective Association, 1705 S. Hanley Road, Brentwood, MO 63144.

Working poor — continued from p. 1

toward the next increase now. Based on past experience, that increase could be a long time in coming unless there is strong public support for Congress to raise the minimum wage again.

Another recommendation they made is for Congress to expand, according to family size, the Earned Income Tax Credit, which serves as a wage support for poor families.

Because 40 percent of the working poor do not have health insurance, the authors also recommend implementing a national health insurance program that guarantees health care for everyone.

"What I found most striking is the precariousness of the day-to-day lives of the working poor," says Sherraden. "Any major event like an illness, or a job loss, or a family breakup is a catastrophe for them. They can become homeless in an instant."

Other recommendations are for a greater federal commitment for low-cost housing, implementing an

Emergency Financial Assistance Program to help families through temporary crises and funding daycare for poor working families.

Weiler, who was surprised to find such a high percentage of people working full time and yet not even earning above the poverty line, said, "I think the future is dismal unless we think in different terms as a nation. Inadequate wages, prohibitive housing costs, healthcare and daycare services that are beyond reach — unless these problems are confronted, I don't see the working poor situation improving, only getting worse."

Sherraden agrees and says we need an economic development program that creates more productive work, better wages and health coverage.

He asks rhetorically, "What kind of message are we delivering if people work hard and still do not make it?"

Susan Killenberg

NOTABLES

Don Conway-Long, instructor in women's studies, recently participated in conferences in St. Louis, Baltimore, Md., and Memphis, Tenn. He presented a paper on "Gender and Power in American Film" at the Midwest Sociology Association Conference, held in St. Louis. At the Second House of Ruth Conference on Working With Men Who Batter, held in Baltimore, he led a workshop on "Men's Participation in the Battered Women's Movement." Also, at the Federally Employed Women's Training Conference in Memphis, Conway-Long presented two workshops, titled "Violence Against Women: an Analysis of Male Behavior" and "Masculinity at Home and Work: a Critical Assessment."

Thomas Gresik, Ph.D., assistant professor of business economics, presented his paper on "Ex Post Individually Rational Trade" at the Summer Econometric Society Meetings held at the University of Michigan; the Southeast Economic Theory Meetings held at the University of North Carolina; and an invited lecture at the University of Illinois, Champaign-Urbana.

Lynn S. Imergoot, assistant athletic director, has been appointed as the Missouri representative to the Research and Project Proposal Awards Committee of the Central District of the American Alliance for Health, Physical Education, Recreation and Dance.

Martha Ozawa, Ph.D., Bettie Bofinger Brown Professor of Social Policy, was invited to present a paper, titled "Women, Children, Work and National Interest," at a conference of the National Association of Social Workers, held Oct. 11-14 in San Francisco. At the meeting, Ozawa also participated in a discussion with **Vered Slonim-Nevo**, D.S.W., and **Wendy Auslander**, Ph.D., both assistant professors of social work, on "AIDS Prevention for Teenagers in Residen-

tial Centers: Implications for Social Work." In addition, Ozawa was a participant in a session titled "Clinicians, Consumers, Policy Makers: Is the Social Security Act Ready for our Future?" Other members of the George Warren Brown School of Social Work who were presenters at the convention were: **William Butterfield**, Ph.D., associate professor of social work, who co-led a course on "Getting Control of Agency Information Technology"; **Therese J. Dent**, Ph.D., director of field education, who delivered a paper on "Leadership in Organizational Problem Solving"; Auslander, who participated in a session on "Medication and Compliance: Clinical, Ethical and Educational Issues"; and **Robert L. Pierce**, Ph.D., associate professor of social work, and **Joanne I. Estacio**, a recent graduate of the school, who presented a paper on "Filipino-Caucasian Inter-marriages: Clinical Questions and Implications for Practice."

Stan Strembicki, associate professor of art, will have an exhibit of his photographs at the Martin Schweig Gallery. The exhibit, titled "South of Cape: Photographs South of Cape Girardeau and West of the Innerbelt," features color photographs from such diverse locations as New Orleans, the Bonneville Salt Flats of Utah, southern Missouri and Texas. The exhibit opens Dec. 15 with a reception from 7-9 p.m. and continues through Jan. 12.

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 p72245SS at WUVMC. Please include a phone number.

International Studies search committee

Martin H. Israel, Ph.D., dean of the Faculty of Arts and Sciences, has appointed a committee to search for a director and associate director of International Studies. The search is chaired by Edward Wilson, Ph.D., dean of the Graduate School of Arts and Sciences.

Other members of the committee are Linda B. Salamon, Ph.D., dean of the College of Arts and Sciences, Barry Ames, Ph.D., professor of political science, Jean Ensminger, Ph.D., assistant professor of anthropology, Cornell H. Fleischer, Ph.D., professor of history, Robert E. Hegel, Ph.D., chair of Asian and Near Eastern languages and literatures, Paul Michael Lutzel, Ph.D., professor of Germanic languages and literatures, James E. McLeod, chair of African and Afro-American studies, and Norman J. Schofield, Ph.D., professor of economics.

The new director will take leadership of the University's expanding enterprise in area studies and international education. The director's time will be divided evenly between faculty and administrative responsibilities.

The former director was Stanley Spector, Ph.D., who recently retired and is professor emeritus of Chinese studies.

The associate director, under the guidance of the director, will be a full-time administrator of international and area studies programs. The associate director will work closely with students and faculty interested in

pursuing externally funded international opportunities.

More information about the positions may be obtained from, and nominations of candidates may be given to, any member of the Search Committee or the Graduate School of Arts and Sciences, Campus Box 1187, 889-6843.

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Law school teams prepare for national competitions

The School of Law captured first place at the American Bar Association's (ABA) Regional Negotiation Competition, while two other Washington teams advanced to the quarterfinal rounds at the regional competition of the 40th annual National Moot Court Competition.

Washington is preparing teams for the upcoming National Environmental Moot Court Competition and the regional competition of the ABA National Appellate Advocacy Competition. These competitions are designed to enhance students' lawyering skills and to test their abilities against students from other law schools across the country.

Third-year law students Janice L. Treutelaar and William A. Linton comprised the winning team at the regional negotiation competition, held Nov. 11 at Creighton University in Omaha, Neb. The students qualified for the regionals by winning the law school's fourth annual intramural negotiation competition. They will vie for the national title Feb. 10 in Los Angeles. Second-year law students Elizabeth A. Dickhaus and Robert A. Goldberg were chosen as alternates for the regional negotiation competition.

At the regionals, 20 students from 10 Midwestern law schools negotiated the terms of a hypothetical corporate takeover. "Not only did the students have to exhibit effective negotiation skills, they had to be knowledgeable about tax, securities and corporation law," notes M. Susan Carlson, J.D., visiting assistant professor of law and faculty adviser for the team. "It was a complex problem and they did an excellent job," she says.

Two Washington teams reached the quarterfinals of the regional competition of the 40th annual National Moot Court Competition, held Nov. 3-4 at the University of Missouri-Columbia School of Law. The Washington team members are David E. Alexander, William H. Anderson, William A. Linton, Lynne Harris Moss, Ganesh Natarajan and Elizabeth Z. Webster, all third-year law students who excelled in earlier intramural competitions.

A total of 17 teams from eight schools took part in the competition.

The hypothetical case in the competition focused on whether antitrust claims could be used to avoid a hostile corporate takeover and whether the takeover target is required to disclose projected sales and earnings information if it tries to repurchase its own shares.

"The Washington University School of Law can be proud of this year's teams," says Lawrence W. Iannotti, LL.M., visiting associate professor of law and faculty adviser. "The students worked very hard and acquitted themselves well in the regionals as advocates and as representatives of the school."

The law school's second annual Environmental Moot Court Competition was held Nov. 15-20. The winners were third-year student Belinda A. Bush and Christopher C. Horner, a second-year student. The triumphant team will represent Washington at the National Environmental Moot Court Competition Feb. 22-24 at Pace University in New York. The faculty adviser who will prepare the team for the nationals is Richard J. Lazarus, J.D., associate professor of law.

Third-year law students Christopher R. Hedican and Donald L. Erftmier emerged as victors in the fall Wiley Rutledge Moot Court Competition, the oldest of several intramural competitions sponsored by the law school. The students also received the Golden Quill Award for the best brief. The faculty adviser was Roy D. Simon Jr., J.D., professor of law, who will select and prepare six students who competed in the fall Wiley Rutledge intramurals for the regionals of the ABA National Appellate Advocacy Competition in the spring.

Immediately before the final round of the fall Wiley Rutledge Moot Court Competition, Dorsey D. Ellis Jr., J.D., dean of the law school, unveiled a reproduction of the official U.S. Supreme Court painting of Wiley Rutledge, dean of the University's law school from 1931-35 and Supreme Court justice from 1943 until his death in 1949. The reproduction was made possible by a donation from attorney Burton C. Bernard, a friend of the law school and partner with Bernard & Davidson.

NEWSMAKERS

Washington University faculty and staff make news around the globe. Following is a digest of media coverage they have received during recent weeks for their scholarly activities, research and general expertise.

Recent studies suggest that a new class of influenza vaccine is so effective that in a matter of years the disease most often responsible for childhood deafness could be reduced to "a medical curiosity," says Dan M. Granoff, M.D., professor of pediatrics, in a Sept. 30 *Milwaukee Journal* story.

A new medical procedure to remove Fallopian tube obstructions without major surgery and a lengthy recovery period, is discussed by Jorge Pineda, M.D., assistant professor of obstetrics and gynecology, in an article from the November issue of *Good Housekeeping*. "The procedure takes less than an hour, requires only a sedative, and there is no hospital stay," he says. "Pregnancy

rates after the procedure are extremely encouraging," he adds.

More people in the United States are reaching out "to touch someone" than ever before. Telephone use between 1980 and 1987 increased 24 percent, says an Oct. 11 *New York Times* article, but the population only increased 7 percent. Although sociologists have little data to explain the increase or how it may be changing communications, some speculate that the telephone is another way people can expand their reach. Deirdre Boden, Ph.D., assistant professor of sociology, believes one reason for the increase is because a telephone call closely mimics in-person contact. "We live in a society where people can't be face to face," she says in the article. For example, she discovered that people who own car phones and have a choice of using a receiver or a speaker will tend to choose the intimacy of the receiver.

CALENDAR

Dec. 14-Jan. 20

LECTURES

Thursday, Dec. 14

10:30 a.m. Olin Library Preservation Year Lecture Series: "Statewide Preservation Programs," Lisa Fox, preservation officer of SELINET. Simon Hall, May Aud.

1 p.m. Jewish Hospital Pulmonary Division Special Lecture, "Mechanisms of Degradation of Vascular Connective Tissue During Regression of Pulmonary Hypertension," David J. Riley, prof. of medicine, UMDNJ-Robert Wood Johnson Medical School, New Brunswick, N.J. Stix Room, Jewish Hospital.

4 p.m. Dept. of Pathology Research Seminar Series Winter Program: Focus on Neoplasia, "Platelet Derived Growth Factor: Roles in Normal and Transformed Cell Growth," Thomas Deuel, WU Dept. of Medicine. Third Fl. Aud., Children's Hospital.

4 p.m. Dept. of Biology Seminar, "Discovery of a Transposon in the Mating-type region of Chlamydomonas," Patrick Ferris, WU Dept. of Biology. 322 Rebstock Hall.

4 p.m. Dept. of Chemistry Seminar, "Hydrocarbon Oxidation Reactions on Single Crystal Surfaces," Jeffrey Roberts, Dept. of Chemistry, Stanford U. 311 McMillen Lab.

4:15 p.m. Dept. of Philosophy Colloquium, "Providence and the Problem of Evil," Eleonore S. Stump, prof., Virginia Polytechnic Institute. Women's Bldg. Lounge.

4:30 p.m. Dept. of Mathematics Colloquium, "Gain of Regularity for Dispersive Evolution Equations," Thomas Kappeler, Brown U. 199 Cupples I Hall.

Friday, Dec. 15

Noon. Dept. of Cell Biology and Physiology Friday Noon Seminar Series, "The LDL Receptor and the Folate Receptor: Contrasting Mechanisms in Ligand Internalization," Richard G. Anderson, Dept. of Cell Biology, U. of Texas Southwestern Medical School. Cell Biology Library, 4914 South Bldg.

4 p.m. Jewish Hospital Hematology Research Seminar, "Human Hemoglobin Synthesis, Switching, and Sickling in Transgenic Mice," Tim M. Townes, Dept. of Biochemistry, Schools of Medicine and Dentistry, U. of Alabama at Birmingham. Sponsored by Program in Cancer Research. Third Fl. Aud., Children's Hospital.

Saturday, Dec. 16

9 a.m. Saturday Morning Neuroscience Seminar, "Cellular Physiology of Brain Endothelium and Vascular Smooth Muscle," Carl Rovainen, WU Dept. of Cell Biology and Physiology. Cori Aud., McDonnell Medical Sciences Bldg.

Tuesday, Dec. 19

4 p.m. AIDS Clinical Trials Unit Presents Approaches to the Inhibition of HIV Scientific Series, "Anti-TAT Peptides for HIV," Maurice Green, Institute for Molecular Virology, St. Louis U., and "Prospects for Prevention of HIV Infection With a Vaccine," Robert B. Belshe, Dept. of Medicine, St. Louis U. Cori Aud., McDonnell Medical Sciences Bldg.

4 p.m. Dept. of Chemistry Seminar, "Hexa-substituted Benzenes as Ligands in Bioinorganic Chemistry: From Fe S Clusters to Iron Sequestering Agents," Dan Stack, Dept. of Chemistry, U. of Calif.-Berkeley. 311 McMillen Lab.

Wednesday, Dec. 20

4 p.m. Dept. of Chemistry Seminar, "Structure and Electronic Properties of Semiconductor Nanoclusters," Mounqi Bawendi, Bell Laboratories. 311 McMillen Lab.

Friday, Jan. 5

6 and 8:30 p.m. Washington University Association Travel Lecture Series, "An Autumn Odyssey — Alaska to Key West," Tom Sterling, travel film producer. Graham Chapel. For ticket info., call 889-5122.

Tuesday, Jan. 9

Noon-1 p.m. Personal Productivity Seminar Series, "Stress Management," Patricia Taylor, sr. assoc., WU Center for the Study of Data Processing. St. Louis Public Library, 1301 Olive St. Brown-bag-it lunch; coffee provided. For more info., call 726-4487.

EXHIBITIONS

"Richard Bosman's Prints 1978-1988," Jan. 19-March 11. Gallery of Art, Steinberg Hall, lower gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

"Meditations: The Decade of the Eighties," featuring paintings by Lawrence D. Steefel Jr., WU Steinberg Professor Emeritus of Art History and Archaeology. Through Jan. 14. Gallery of Art, Steinberg Hall. 10 a.m. to 5 p.m. weekdays; 1-5 p.m. weekends.

"Washington University Permanent Collection."

Collection includes European and American art from the post-World War II era, as well as Greek coins and terra cotta vases. Through Dec. 31. Gallery of Art, Steinberg Hall, upper and lower galleries. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends.

"Faculty Show," featuring photographic works by Stan Strembecki, WU assoc. prof. of art. Works by other University faculty members also will be on exhibit. Through Dec. 28. Gallery of Art, Steinberg Hall, upper gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends.

"Looking Back on Mid-Century," featuring 20th-century American and English literary manuscripts. Through Jan. 12. Olin Library, Special Collections, level 5. 8:30 a.m.-5 p.m. weekdays. For more info., call 889-5495.

"University of Kentucky Sculpture Exhibit," part of an exchange program of work by art students. Through Dec. 17. Bixby Gallery, 2nd floor, Bixby Hall. 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4643.

PERFORMANCES

Saturday, Jan. 13

11 a.m. St. Louis Children's Theatre Connection Presents a Theatre Festival for Young People, "Takunda" and at 1 p.m. "Mirandy and Brother Wind," The Black Rep. Sponsored by WU Performing Arts Dept. Mallinckrodt Center Drama Studio. Cost: \$3 children; \$5 adults. For more info., call 889-6543.

FILMS

Wednesday, Jan. 17

7 and 9 p.m. Filmboard Series, "The Last Laugh." (Also Thurs., Jan. 18, same times.) \$2. Brown Hall.

Friday, Jan. 19

6 and 9 p.m. Filmboard Series, "The Unbearable Lightness of Being." (Also Sat., Jan. 20, same times, and Sun., Jan. 21, at 6 p.m.) \$2. Brown Hall.

Midnight. Filmboard Series, "Airplane." (Also Sat., Jan. 20, and Sun., Jan. 21, at 9:30 p.m.) On Fri. and Sat., both the 9 p.m. and midnight films can be seen for a double feature price of \$3; both Sun. films can be seen for \$3. Brown Hall.

SPORTS

Saturday, Dec. 16

5:30 p.m. Women's Basketball. WU vs. U. of Mo.-St. Louis. Field House Gym.

7:30 p.m. Men's Basketball. WU vs. U. of Mo.-St. Louis. Field House Gym.

Thursday, Jan. 11

7:30 p.m. Men's Basketball. WU vs. U. of Rochester. Field House Gym.

Saturday, Jan. 13

7:30 p.m. Men's Basketball. WU vs. Brandeis U. Field House Gym.

Sunday, Jan. 14

1 p.m. Men's Swimming and Diving. WU vs. Wabash College. Millstone Pool.

Monday, Jan. 15

7 p.m. Men's and Women's Swimming and Diving. WU vs. Principia College. Millstone Pool.

Saturday, Jan. 20

1:30 p.m. Men's and Women's Swimming and Diving. WU vs. Transylvania U. Millstone Pool.

MISCELLANY

Monday, Jan. 15

7 p.m. "King: Drum Major For Peace," program commemorating birthdate of slain civil rights leader Martin Luther King Jr. Guest speaker: the Rev. C. Garnett Henning Sr., pastor, St. Paul's A.M.E. Church in St. Louis, delivering speech based on program's title, which was derived from one of King's speeches, "The Drum Major Instinct." Gospel choir and dramatization to be presented by WU students highlighting major events in King's life. Simon Hall, May Aud. For more info., call 889-5010.

Friday, Jan. 19

8:45 a.m.-4 p.m. Psychological Service Center's Professional Education Series, "Fundamental Course in Cognitive Therapy," Patricia Lacks, WU lecturer in psychology. Fee: \$90 before Jan. 5; \$100 after this date; \$60 for graduate students. 115 Eads Hall. For more info., call 889-6555.

'Drum Major for Peace'

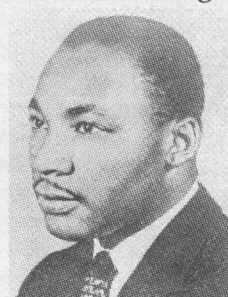
King commemoration is set

To commemorate the Jan. 15, 1929, birthdate of slain civil rights leader Martin Luther King Jr., a host of Washington University student groups, departments and campus ministries will sponsor a program titled "King: Drum Major For Peace" at 7 p.m. Jan. 15 in the May Auditorium in Simon Hall. The event is free and open to the public.

During the program, the Rev. C. Garnett Henning Sr., pastor of St. Paul's A.M.E. Church in St. Louis, will deliver a speech based on the program's title, which was derived from one of King's speeches, "The Drum Major Instinct." Videos of that speech and King's most famous speech — "I Have A Dream" — will be shown during the program.

The commemoration also will feature performances by a gospel choir and a dramatization presented by Washington students highlighting major events in King's life. In addition, students will give testimonials of how King influenced their lives.

"Martin Luther King encouraged an understanding of the races," says



Martin Luther King Jr.

junior Mischa Buford, vice president of the Association of Black Students and a member of the planning committee for the King commemoration. "It's very important for us to recognize the accomplishments of those who have come before us."

Buford adds, however, that although King's leadership spurred an increased understanding between races, particularly blacks and whites, "we have a long way to go in terms of having equal respect for one another. As a nation, we are not as far as many of us think we are."

For more information, call Anthea Henderson at 889-5010.

London summer theatre course offered

The Performing Arts Department is sponsoring a summer program in London from May 21-June 18, 1990. The course, "Summer Theatre in London," will cover English theatre from both the literary and performance aspects.

The course was established last year and met with great enthusiasm from the students who participated. An informational meeting for interested students will be held at 11 a.m. Wednesday, Dec. 13, in Room 325 (AV Room) of Mallinckrodt Center.

Henry I. Schvey, Ph.D., chair of the department, and Ann Marie Costa and Jeffery Matthews, artists-in-residence in drama, will be the program instructors. Students can earn six 300-level university credits in

drama for the course.

Total cost of the one-month program is \$2,800 and includes: round-trip airfare from St. Louis to London; two days and nights at Stratford-upon-Avon; two performances by the Royal Shakespeare Company; a workshop and performance by the National Theatre of Great Britain; a workshop and lecture tour of the Old Globe Theatre; five additional performances to be determined; lodging; and two meals per day.

Registration is open to Washington University students, but space is limited. Interested students must register by Feb. 1, 1990, and a \$250 non-refundable deposit is required.

For more information, call Stephen Duncan at 889-5858.

Communications — continued from p. 1

and image services, as well as scientific and medical usages. Transmission rates for these applications vary widely from several hundred bits per month to 100 megabits (or 100 million bits) per second.

"The fast-packet network will differ significantly from today's telephone systems because many widely diverse communications applications will be inherently accommodated by the same system," says Jerome R. Cox, Sc.D., chair and Harold B. and Adelaide G. Welge Professor of Computer Science. "Tremendous advances in technology have allowed researchers to make this once visionary system a reality."

"Our customers are telling us they want to have the benefits of new technology," says Charles Foster, executive vice president of Southwestern Bell Telephone Co. "These research efforts are a bold step forward to help us understand the potential of this technology to bring the convenience of information-age services to them."

Ross Spicer, president of SBC Technology Resources Inc., adds: "We see this research as an outstanding opportunity to investigate broadband switching technology and its potential for future telecommunications applications."

Howard J. Gottlieb, vice president and general manager, NEC America Inc. Switching Systems Division, says: "There is a new thrust

toward how people will use information in the 21st century. The marriage of new technology and the growing need for and the quality of information will be better understood by this research activity."

Projects to be undertaken during the three-year research program include "The Physician's Workstation," which likely will become one of the most powerful examples of the fast-packet network application. Another project is the "Digital Link," which is a 100 megabit-per-second fiber optic subsystem. Compression techniques will be studied to make image transmission more efficient and better suited to the new high-performance packet mode of information transport.

Any proceeds from the licensing of technological innovations resulting from this project will accrue to Washington University for furthering its research and educational programs, to the inventor and to the sponsors of the various tasks of the project.

Tony Fitzpatrick

Calendar Deadline

The deadline to submit items for Jan. 18-27 calendar of the Washington University Record is Jan. 9. 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 calendar editor, Box 1070, or by electronic mail to p72245PP at WUVMC.