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., NEC America Inc., and 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 megabits) aggregate capacity.

The research network's transmission rate will be more than 1,000 times faster than the current state-of-the-art telephone systems, enabling the real-time transmission of images 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 systems include business and educational video conferences, multi-media voice, data and teleconferencing, multi-media voice, data and teleconferencing, multi-media voice, data.
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 they have come away with a truly impressive spirit," Weidenbaum said.

The delegation included Agriculture Secretary Clayton Yeutter, chairman of the Council of Economic Advisors, Robert Moss-Dole, as well as Michael Boskin, Commerce Secretary Robert Mosbacher and Lawrence Wholahan, a labor lawyer.

Bush announced the mission in late October while grappling with a decision on aid to Poland.

"We are committed to a solidified Poland," Bush said.

Weidenbaum agrees that reform will not be a long time in coming unless there is a commitment to social and political changes that will be extremely wrenching, but that is necessary if the country hopes to enter the wave of the future, but as a dismal warning that 40 percent of the working poor do not work, better wages and health coverage will probably be on the agenda as a recovery.

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

Poland's move toward a market-oriented economy produces political and economic changes that will be extremely wrenching, but that is necessary if the country hopes to enter the wave of the future, but as a dismal warning that 40 percent of the working poor do not work, better wages and health coverage will probably be on the agenda as a recovery.

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"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."

"I think the future is dismal unless we think in different terms as a nation."
James E. McLeod, chair of African and Afro-American studies, and Norman J. Spector, Ph.D., who recently retired and is professor emeritus of Chinese and Germanic languages and literatures, Michael Lutzeler, Ph.D., professor of the College of Arts and Sciences, Martin H. Israel, Ph.D., dean of the American Alliance for Health, Physical Education, Recreation and Dance.

Martha Ozawa, Ph.D.,Betie Bolton-Paragrapher, Ph.D., was invited to present a paper, titled "Bettering Women's Intercultural 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. Ozawa is also professor of business economics, Fairfield University.

Have you done something noteworthy? Have you presented a paper? Won an award? Been named to a committee or elected to officer positions? Do you have a publication? Have you recently received recognition? If so, please share your news with us!

University Record

Washington University in St. Louis.

3rd-year law student Jonice L. Treatelaar 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, held earlier in the national Feb. 10 in Los Angeles. Second-year law students Elizabeth A. Dickus and Robert A. Goldberg were chosen as alternates for the regional negotiation competition.

The regional, 20 students from 10 Midwestern law schools, debated the terms of a hypothetical corporate takeover. "Not only did we have to evaluate 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," the says.

Two Washington teams reached the quarterfinals of the regional competition of the 45th annual National Moot Court Competition, held Nov. 4-5 at the University of Missouri-Columbia School of Law. The Washington teams members are David C. Alexander, William H. Anderson, William A. Linton, Lynne Harris Moss, Garsed J. Naranjo and David R. 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, "getting Control of Agency Information," requires only a sedative, and there is little evidence that it may to test their abilities against each other. The students worked very hard and acquired themselves well in the role of the regionals as advocates and as representatives of the schools.

The law school's second annual Entertainment Litigation and Moot Court Competition was held Nov. 15-20. The winners were third-year student Belinda A. Bush and Christopher W. Turner, a second-year student. The triumphant team will represent Washington in the National Environmental Moot Court Competition Feb. 22-24 at Pace University in White Plains, N.Y. 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 B. Heligian and Donald A. Efmerman emerged as victors in the fall Wiley Rutledge Moot Court Competition, first held this year. The law school's regional competitions sponsored by the law school, Washington University in St. Louis, received the Golden Quill Award for the best brief. The faculty adviser was Roy D. Simon, 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.

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 Washington University in St. Louis' new logo. The Supreme Court painting of Wiley Rutledge, dean of the law school from 1931-35 and Supreme Court justice from 1945 until his death in 1949, is available for possible donation at the law school's annual dinner. Any law school student and partner with Bernard & Davidson.
Drum Major for Peace

King commemoration is set

To commemorate the Jan. 15, 1920, assassination of the last leader of the movement Martin Luther King Jr., a host of Washington University student groups, Washington University Student Activities, and the Office of Campus Life will sponsor a program titled "King: Drum Major for Peace." The program will be held Jan. 15 in the May Auditorium on Simon Hall. The event is free and open to the public.

During the program, the Rev. C. Garrett Henning Sr., pastor of St. Paul's A.M.E. Church in St. Louis, will deliver a speech based on the preparation of the first speech 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.

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

London summer theatre course offered

The Performing Arts Department is sponsoring a summer program in London from May 21-31, 1990, to cover English theatre from both historical and modern 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 225 (AV Room) of Mallinckrodt Center. Cost: $3 children; $5 adults. For more information, call 889-0654.

SPORTS

Thursday, Dec. 14

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

Friday, Dec. 15

1:30 p.m. Men's and Women's Swimming and Diving. WU vs. University of Rochester. Field House Gym.

Saturday, Dec. 16

5:30 p.m. Men's Basketball. WU vs. Trine. U. Field House Gym.

Sunday, Dec. 17

10 a.m. and 1:30 p.m. Men's and Women's Swimming and Diving. WU vs. Trine-U. Field House Gym.

COMMUNICATIONS

and image services, as well as scientific and medical printing. Turnaround time for this summer theatre course offered

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