High-speed data transfer focus of research contract

K enneth J. Goldman, Ph.D., assis- tant professor of computer science, has been awarded a three-year $2.6 million contract from the Advanced Research Projects Agency (ARPA) for research on high-performance distributed multimedia computing. The research will facilitate the development of computer applications that involve high-speed transmission of audio, video and other data between cooperating software components running on different computers across computer networks.

The work is based on a new programming model, I/O Abstraction, which Goldman and his students have developed with support from the National Science Foundation.

The model is designed to simplify the construction of distributed applications by allowing computer users to create customized distributed applications by combining reusable software components, similar to the way the components of a stereo system are plugged together. Once constructed, these applications can be changed, even while they are running, in order to support more flexible and effective use of dynamically changing electronic information sources from around the world.

Goldman will collaborate with co-investigators Jerome R. Cox Jr., D.Sc., the Harold B. and Adelaide G. Welge Professor of Computer Science; Guru M. Parulkar, Ph.D., associate professor of computer science and director of the Applied Research Laboratory (ARL); and Jonathan S. Turner, Ph.D., associate professor of Engineering and chair of computer science, as well as others in the ARL.

Cox and Turner, working with Goldman, have engineered new concepts and architectures in network design. With this research, the ARL's mission is to facilitate the development of faculty ideas into practical systems ready for product development by industry. Over the years, the ARL has undertaken many collaborative, multi-investigator research projects in high-speed, fiber-optic telecommunications, several of which have made major contributions to the information superhighway.

The ARL's research has pioneered new concepts and architectures in what the telecommunications industry calls asynchronous transfer mode (ATM), a switching and transmission technique in which information is carried in small, fixed-size units called cells for efficient transportation of multimedia information—audio, video and text data.

The ARL's mission is to facilitate the development of faculty ideas into practical systems ready for product development by industry. Over the years, the ARL has undertaken many collaborative, multi-investigator research projects in high-speed, fiber-optic telecommunications, several of which have made major contributions to the information superhighway. The ARL's research has pioneered new concepts and architectures in what the telecommunications industry calls asynchronous transfer mode (ATM), a switching and transmission technique in which information is carried in small, fixed-size units called cells for efficient transportation of multimedia information—audio, video and text data. The most well-known project to emerge from the ARL is Washington University's Project Zeus, the campuswide computer network that supports data rates of 155 million bits per second to a variety of multimedia and imaging applications using the ATM switching systems, fiber-optic communication and multimedia and imaging devices. In contrast, the data communications industry's standard network,
Medical Update

Risk factors for premature death in alcoholics highlighted by study

By following this sample of alcoholic men and women, Smith and her research team collected information that could predict early death in alcoholic men and women. The study's findings have important implications for future treatment of alcoholics.

Robert M. Senior, Ph.D., is director of the Respiratory and Critical Care Division at the Washington University School of Medicine. He became a professor in 1979 and is professor emeritus of Science in 1987 in recognition of his contributions to the understanding of emphysema.

A neurology professor at the School of Medicine has received a five-year $1.2 million grant from the National Insti-

Bob Morrison, animal behaviorist of Bush Gardens Tampa Bay's 1995 Animal Tour, introduces "Shag," a carpet python, to students at the Central Institute for the Deaf (CID). Carpet pythons, which are harmless, get their name from the distinct patterns on their backs that resemble orange rags. During the visit, CID students learned about animals with habitats in Africa, Brazil, Australia and the United States.

Brain swelling after stroke damage to be studied by neurologist Hsu

A neurology professor at the School of Medicine has received a five-year $1.2 million grant from the National Insti-

By following this sample of alcoholic men and women, Smith and her research team collected information that could predict early death in alcoholic men and women. The study's findings have important implications for future treatment of alcoholics.

Robert M. Senior, Ph.D., is director of the Respiratory and Critical Care Division at the Washington University School of Medicine. He became a professor in 1979 and is professor emeritus of Science in 1987 in recognition of his contributions to the understanding of emphysema.

A neurology professor at the School of Medicine has received a five-year $1.2 million grant from the National Insti-

Bob Morrison, animal behaviorist of Bush Gardens Tampa Bay's 1995 Animal Tour, introduces "Shag," a carpet python, to students at the Central Institute for the Deaf (CID). Carpet pythons, which are harmless, get their name from the distinct patterns on their backs that resemble orange rags. During the visit, CID students learned about animals with habitats in Africa, Brazil, Australia and the United States.

Brain swelling after stroke damage to be studied by neurologist Hsu

A neurology professor at the School of Medicine has received a five-year $1.2 million grant from the National Insti-

By following this sample of alcoholic men and women, Smith and her research team collected information that could predict early death in alcoholic men and women. The study's findings have important implications for future treatment of alcoholics.

Robert M. Senior, Ph.D., is director of the Respiratory and Critical Care Division at the Washington University School of Medicine. He became a professor in 1979 and is professor emeritus of Science in 1987 in recognition of his contributions to the understanding of emphysema.

A neurology professor at the School of Medicine has received a five-year $1.2 million grant from the National Insti-

Bob Morrison, animal behaviorist of Bush Gardens Tampa Bay's 1995 Animal Tour, introduces "Shag," a carpet python, to students at the Central Institute for the Deaf (CID). Carpet pythons, which are harmless, get their name from the distinct patterns on their backs that resemble orange rags. During the visit, CID students learned about animals with habitats in Africa, Brazil, Australia and the United States.

Brain swelling after stroke damage to be studied by neurologist Hsu

A neurology professor at the School of Medicine has received a five-year $1.2 million grant from the National Insti-

By following this sample of alcoholic men and women, Smith and her research team collected information that could predict early death in alcoholic men and women. The study's findings have important implications for future treatment of alcoholics.

Robert M. Senior, Ph.D., is director of the Respiratory and Critical Care Division at the Washington University School of Medicine. He became a professor in 1979 and is professor emeritus of Science in 1987 in recognition of his contributions to the understanding of emphysema.

A neurology professor at the School of Medicine has received a five-year $1.2 million grant from the National Insti-

Bob Morrison, animal behaviorist of Bush Gardens Tampa Bay's 1995 Animal Tour, introduces "Shag," a carpet python, to students at the Central Institute for the Deaf (CID). Carpet pythons, which are harmless, get their name from the distinct patterns on their backs that resemble orange rags. During the visit, CID students learned about animals with habitats in Africa, Brazil, Australia and the United States.

Brain swelling after stroke damage to be studied by neurologist Hsu

A neurology professor at the School of Medicine has received a five-year $1.2 million grant from the National Insti-

By following this sample of alcoholic men and women, Smith and her research team collected information that could predict early death in alcoholic men and women. The study's findings have important implications for future treatment of alcoholics.

Robert M. Senior, Ph.D., is director of the Respiratory and Critical Care Division at the Washington University School of Medicine. He became a professor in 1979 and is professor emeritus of Science in 1987 in recognition of his contributions to the understanding of emphysema.

A neurology professor at the School of Medicine has received a five-year $1.2 million grant from the National Insti-

Bob Morrison, animal behaviorist of Bush Gardens Tampa Bay's 1995 Animal Tour, introduces "Shag," a carpet python, to students at the Central Institute for the Deaf (CID). Carpet pythons, which are harmless, get their name from the distinct patterns on their backs that resemble orange rags. During the visit, CID students learned about animals with habitats in Africa, Brazil, Australia and the United States.

Brain swelling after stroke damage to be studied by neurologist Hsu

A neurology professor at the School of Medicine has received a five-year $1.2 million grant from the National Insti-

By following this sample of alcoholic men and women, Smith and her research team collected information that could predict early death in alcoholic men and women. The study's findings have important implications for future treatment of alcoholics.

Robert M. Senior, Ph.D., is director of the Respiratory and Critical Care Division at the Washington University School of Medicine. He became a professor in 1979 and is professor emeritus of Science in 1987 in recognition of his contributions to the understanding of emphysema.

A neurology professor at the School of Medicine has received a five-year $1.2 million grant from the National Insti-

Bob Morrison, animal behaviorist of Bush Gardens Tampa Bay's 1995 Animal Tour, introduces "Shag," a carpet python, to students at the Central Institute for the Deaf (CID). Carpet pythons, which are harmless, get their name from the distinct patterns on their backs that resemble orange rags. During the visit, CID students learned about animals with habitats in Africa, Brazil, Australia and the United States.

Brain swelling after stroke damage to be studied by neurologist Hsu

A neurology professor at the School of Medicine has received a five-year $1.2 million grant from the National Insti-

By following this sample of alcoholic men and women, Smith and her research team collected information that could predict early death in alcoholic men and women. The study's findings have important implications for future treatment of alcoholics.

Robert M. Senior, Ph.D., is director of the Respiratory and Critical Care Division at the Washington University School of Medicine. He became a professor in 1979 and is professor emeritus of Science in 1987 in recognition of his contributions to the understanding of emphysema.

A neurology professor at the School of Medicine has received a five-year $1.2 million grant from the National Insti-

Bob Morrison, animal behaviorist of Bush Gardens Tampa Bay's 1995 Animal Tour, introduces "Shag," a carpet python, to students at the Central Institute for the Deaf (CID). Carpet pythons, which are harmless, get their name from the distinct patterns on their backs that resemble orange rags. During the visit, CID students learned about animals with habitats in Africa, Brazil, Australia and the United States.
Diane Merritt never considered a career in medicine until she was in college, when she found herself tutoring pre-med students in chemistry and biology.

She had planned to be a teacher, possibly a high school science teacher. And although Merritt, M.D., associate professor of obstetrics and gynecology, never received a teaching certificate, today she plays a central role in educating students and residents at the School of Medicine.

"Adolescents with any teachers," Merritt said. "You are either teaching your patients or you are teaching younger doctors. My work is very compatible with my original goal."

Merritt is known nationally among her peers as an expert in diagnosing and treating gynecological problems in children and teenagers for clinical research in this area. The specialty didn't exist when she entered medical school at Washington University in 1971. Rather, it's a niche Merritt has been carving out for herself as a resident at the School of Medicine.

She went to the St. Louis Children's Hospital as an emergency room physician to see women with gynecological problems. For example, Merritt sees adolescents with chronic illnesses such as cystic fibrosis, diabetes or congenital heart disease often encounter medical problems. Many times, their problems can be corrected surgically, enabling them to lead normal lives.

"I'd much rather make the trip to the emergency room, and I enjoyed the challenge of working with younger patients," Merritt said.

Merritt found that gynecologists often feel unable to relate to children, particularly in situations that involve pelvic exams, and pediatricians often feel ill-equipped to tackle gynecological problems in young children.

"This is an area of medicine that was underserved for many, many years, and it is now getting the attention it deserves," Merritt said.

Ability to relate to children

Merritt draws upon her background and interest in developmental biology, endocrinology, gynecology and pediatrics to help her patients, who come to her with a wide array of medical problems. For example, Merritt sees adolescents with congenital anomalies involving the reproductive and urinary tract many times. Many times, their problems can be corrected surgically, enabling them to lead normal lives.

"The girls have to be the most challenging, but also the most satisfying, to diagnose and treat. Adolescents with chronic illnesses such as cystic fibrosis, diabetes or congenital heart disease often encounter medical problems. Many times, their problems can be corrected surgically, enabling them to lead normal lives."

Merritt also sees young women with severe physical and mental disabilities who begin puberty without having the capacity to understand why their bodies are changing.

Merritt helps them and their families face these difficult challenges.

In an effort to educate physicians and nurses nationwide about the gynecological problems in young female patients, Merritt and several colleagues formed the North American Society of Pediatric and Adolescent Gynecology in 1987. She has continued to play an active role in the organization by giving lectures and conducting workshops in the United States, Canada and Europe.

"The work in this area has helped to create a national reputation for the University's obstetrics and gynecology program," said James Schrider, M.D., professor and head of the department. "In addition to her extensive knowledge, she has a special capacity to put these children at ease and gain their trust."

Merritt also sees herself as a role model for male and female physicians. "I've been a balance family life with a hectic workload. It's important, she said, for young men and women to see that they can succeed in obstetrics and gynecology even though they may be juggling responsibilities at work and at home."

Similar role models were scarce when Merritt was in medical school. There, she was one of only 10 women in a class of 120. "There was some curiosity and a great deal of caution about whether I really knew what I was getting into and whether I could ever combine a career in medicine with a family," she recalled.

While Merritt initially planned to be a surgeon, she was drawn to obstetrics and gynecology out of a strong interest in women's health issues.

As a medical student, Merritt was surprised to see that most women were heavily sedated during childbirth. Mothers gave birth in delivery room settings that resembled operating room suites, and fathers routinely were excluded.

"For a natural process, it seemed like too much medical intervention at a time when Mother Nature was capable of doing so much," Merritt said.

During her training, however, she saw the medical community make a transition to deliveries that not only encouraged women to actively participate in childbirth but also urged fathers to play a strong support role.

During this time, many hospitals replaced the stainless steel delivery room with homey birthing suites. After completing her residency, Merritt joined the School of Medicine faculty in 1981. At the time, she was one of only two female physicians in the obstetrics and gynecology department. She had a "full-service" practice — obstetrics and gynecology course master for the third-year medical students. With supervision from the faculty, these students participate in patient care ranging from routine and high-risk obstetrics to oncology, infertility and surgical cases.

As course master, a post Merritt still holds, she plays a central role in designing the curriculum and evaluating and counseling the students.

Lauded as an enthusiastic teacher

"Dr. Merritt's enthusiasm is contagious, which makes her lectures exciting and interesting," said Julie Miller, a fourth-year medical student. "She's very thorough, but sticks to what's relevant."

Miller's class gave Merritt a Distinguished Teaching Award; her educational efforts also have been recognized by the obstetrics and gynecology residents.

"It's probably more, however, gradually become clear to Merritt that she would have to make some career adjustments. By 1988, her pediatric and adolescent gynecology practice was taking off, and she and her husband, Sandor Kovacs, Ph.D., M.D., assistant professor of medicine, were facing the challenges of raising three young children.

"The unpredictable nature of obstetrics, where you could be totally organized but at the last minute have to leave whatever you're doing go to the delivery room, was not something with which I was comfortable," Merritt said.

So, after 15 years of delivering babies, Merritt decided it was best to discontinue obstetrics and instead focus her energy on treating younger patients and on teaching. "My work is very compatible with my original goal," Merritt said.

Merritt found that "All good doctors are teachers. You are either teaching your patients or you are teaching younger doctors."

"When I considered that I was going to have children, I thought about what I knew about raising children. I knew that if you want children to be successful, you need to be constantly challenging them. It's the same thing with teaching."

Dr. Merritt's class gave her a Distinguished Teaching Award, and during this time, she also taught a seminar on gynecologic court cases about reproductive rights, including abortion rights, premises and discrimination and artificial insemination.

"Many good doctors are teachers. You are either teaching your patients or you are teaching younger doctors."

"The unpredictable nature of obstetrics, where you could be totally organized but at the last minute have to leave whatever you're doing go to the delivery room, was not something with which I was comfortable," Merritt said.

So, after 15 years of delivering babies, Merritt decided it was best to discontinue obstetrics and instead focus her energy on treating younger patients and on teaching. "My work is very compatible with my original goal," Merritt said.

Merritt found that "All good doctors are teachers. You are either teaching your patients or you are teaching younger doctors."

"When I considered that I was going to have children, I thought about what I knew about raising children. I knew that if you want children to be successful, you need to be constantly challenging them. It's the same thing with teaching."

"Many good doctors are teachers. You are either teaching your patients or you are teaching younger doctors."

"The unpredictable nature of obstetrics, where you could be totally organized but at the last minute have to leave whatever you're doing go to the delivery room, was not something with which I was comfortable," Merritt said.

So, after 15 years of delivering babies, Merritt decided it was best to discontinue obstetrics and instead focus her energy on treating younger patients and on teaching. "My work is very compatible with my original goal," Merritt said.

Merritt found that "All good doctors are teachers. You are either teaching your patients or you are teaching younger doctors."

"When I considered that I was going to have children, I thought about what I knew about raising children. I knew that if you want children to be successful, you need to be constantly challenging them. It's the same thing with teaching."

"Many good doctors are teachers. You are either teaching your patients or you are teaching younger doctors."

"The unpredictable nature of obstetrics, where you could be totally organized but at the last minute have to leave whatever you're doing go to the delivery room, was not something with which I was comfortable," Merritt said.

So, after 15 years of delivering babies, Merritt decided it was best to discontinue obstetrics and instead focus her energy on treating younger patients and on teaching. "My work is very compatible with my original goal," Merritt said.
Exhibitions

*The Kresen of Senses: Celebrating the Becker Rare Book Collection in Ophthalmology,* by Debra W. Neiman, The Bernard Becker Medical Library, 660 S. Euclid Ave. Room: 4 p.m. - 5 p.m. weekdays, 1-5 p.m. weekends. 362-4239.

*Engineering at Washington University: 125 Years of Excellence,* Through Nov. 30. Special Collections, Olin Library, Level Five. Hours: 10 a.m. - 5 p.m. weekdays, 9:30-4:45, weekends.

*Transitions.* Features works by several new and longtime faculty members in the School of Art. Opening reception: 5-7 p.m. Nov. 1 Through Dec. 17. Gallery of Art, upper gal-

Lecture

Thursday, Nov. 2


Tuesday, Nov. 7


Monday, Nov. 6


Monday, Nov. 6

4 p.m. Biological science seminar. "Fission Yeast, the First Eukaryote Model Organism," Carol S. Rietdorf, prof., of genetics, Wadsworth Center, Albany, N.Y. 305 Bryan Hall. 935-4830.

Monday, Nov. 6

4 p.m. Immunology seminar. "Osteochondritis, Macrophages and Bone Resorption," Steven Pistorius, William and Russell Melling Professor of pathology, Third Floor Aud. St. Louis Children's Hospital. 362-8974.


Friday, Nov. 10

9:15 a.m. Pediatric Grand Rounds. "The Re-

Music

Monday, Nov. 6


5:30 p.m. Art lecture. "Conservation of Time." Co-sponsored by the Forum for Contempo-

Lectures

Thursday, Nov. 2

1:10 p.m. Social work lecture, "Women in Business - The Father," (1991), starring Mel Gibson. (Also Nov. 11, same time.)

5:30 p.m. Architecture lecture, Gianluca Harri, Harri & Harri Design Inc., New York. Room 113 Busch Hall. 935-8001.

4:30 p.m. Math colloquium. "A Weierstrass Representation for Surfaces of Constant Mean Curvature," Josef Dorfmeister, prof. of mathematics, U. of Kansas, Lawrence, Room 107blewett Hall. (Ted. 4 p.m. in Room 200.) 935-6726.

Friday, Nov. 10

9:15 a.m. Pediatric Grand Rounds. "Re-

Exhibitions

*The Kresen of Senses: Celebrating the Becker Rare Book Collection in Ophthalmology,* by Debra W. Neiman, The Bernard Becker Medical Library, 660 S. Euclid Ave. Room: 4 p.m. - 5 p.m. weekdays, 1-5 p.m. weekends. 362-4239.

*Engineering at Washington University: 125 Years of Excellence,* Through Nov. 30. Special Collections, Olin Library, Level Five. Hours: 10 a.m. - 5 p.m. weekdays, 9:30-4:45, weekends.

*Transitions.* Features works by several new and longtime faculty members in the School of Art. Opening reception: 5-7 p.m. Nov. 1 Through Dec. 17. Gallery of Art, upper gal-

Lecture

Thursday, Nov. 2


Tuesday, Nov. 7


Monday, Nov. 6


Monday, Nov. 6

4 p.m. Biological science seminar. "Fission Yeast, the First Eukaryote Model Organism," Carol S. Rietdorf, prof., of genetics, Wadsworth Center, Albany, N.Y. 305 Bryan Hall. 935-4830.

Monday, Nov. 6

4 p.m. Immunology seminar. "Osteochondritis, Macrophages and Bone Resorption," Steven Pistorius, William and Russell Melling Professor of pathology, Third Floor Aud. St. Louis Children's Hospital. 362-8974.


Friday, Nov. 10

9:15 a.m. Pediatric Grand Rounds. "Re-

Music

Monday, Nov. 6


5:30 p.m. Art lecture. "Conservation of Time." Co-sponsored by the Forum for Contempo-

Exhibitions

*The Kresen of Senses: Celebrating the Becker Rare Book Collection in Ophthalmology,* by Debra W. Neiman, The Bernard Becker Medical Library, 660 S. Euclid Ave. Room: 4 p.m. - 5 p.m. weekdays, 1-5 p.m. weekends. 362-4239.

*Engineering at Washington University: 125 Years of Excellence,* Through Nov. 30. Special Collections, Olin Library, Level Five. Hours: 10 a.m. - 5 p.m. weekdays, 9:30-4:45, weekends.

*Transitions.* Features works by several new and longtime faculty members in the School of Art. Opening reception: 5-7 p.m. Nov. 1 Through Dec. 17. Gallery of Art, upper gal-

Lecture

Thursday, Nov. 2


Tuesday, Nov. 7


Monday, Nov. 6


Monday, Nov. 6

4 p.m. Biological science seminar. "Fission Yeast, the First Eukaryote Model Organism," Carol S. Rietdorf, prof., of genetics, Wadsworth Center, Albany, N.Y. 305 Bryan Hall. 935-4830.

Monday, Nov. 6

4 p.m. Immunology seminar. "Osteochondritis, Macrophages and Bone Resorption," Steven Pistorius, William and Russell Melling Professor of pathology, Third Floor Aud. St. Louis Children's Hospital. 362-8974.


Friday, Nov. 10

9:15 a.m. Pediatric Grand Rounds. "Re-

Music

Monday, Nov. 6

Jordan: One Woman's Journey

E nglish actress Moira Buffini's deeply moving monologue traces the true-life story of a woman winning to be sentenced for the murder of her 13-month-old son as the one-person play "Jordan: One Woman's Journey" makes its U.S. debut Nov. 7 in the Washington University Drama Studio, Room 208 Mallinckrodt Center.

The play will be staged at 8 p.m. Nov. 10 and 11 and at 7 p.m. Nov. 12 in the Drama Studio, After the performance, Buffini will join Eric Nuetzel, MD, Ph.D., of the St. Louis Psychosocial Institute for a discussion of the play. The discussions are free and open to the public.

Buffini is the playwright of "Jordan," a one-act play performed in 1986 after fleeing an abusive husband and turning to prostitution. Award-winning writer Anna Reynolds met Jones while

they both were incarcerated in an English women's prison. Reynolds went on to write "Jordan," which opened to ecstatic reviews in 1992. "Jordan" has received five major awards and captures the true-life story of one woman's struggle for freedom. Buffini's play received first place at 2001 Student Festival in New York. It has been performed 30 times, including at the New York Shakespeare Festival,_user input: Removed personal details.

Men's soccer team heads into postseason

For the sixth consecutive year and the 13th time overall, the Washington University soccer team is headed for the NCAA Division III national tournament. The Bears begin play in the South Central Regional on Friday, Nov. 3, vs. fourth-seeded Rhodes College (Tenn.). The two teams tied 1-1 earlier this season at St. Mary's (Mo.) College of St. Francis. The winner of the Washington-Rhodes game plays the winner of the Wheaton (Ill.) College-University of Wisconsin-Oshkosh match at 7 p.m. Saturday, Nov. 4.

Current record: 14-2-2 (5-1-1, tie, 4-0-2) 

This week: 5 p.m. Friday, Nov. 3, vs. Rhodes College, at Wheaton College

Women's soccer team receives first NCAA bid

One telephone call transformed a great soccer season into a phenomenal one for the women's soccer team. First, the Bears claimed their first NCAA championship on Saturday, Oct. 28, at Millikin University (Decatur, Ill.) vs. the University of Wisconsin-Oshkosh. The Bears capped their remarkable run to the title by upsetting second-ranked Carnegie Mellon University ( Pittsburg). The next day, a telephone call confirmed another first for the Bears as the NCAA Division III title. The Bears begin postseason play Friday, Nov. 4, meeting the winner of the Wednesday, Nov. 1, match between the University of California, San Diego, and Lutheran University (Thousand Oaks).

The Bears capped their remarkable run to the league title as sophomore Vanessa Young drilled a goal in the 70th minute against Carnegie Mellon. The Bears also defeated the University of Wisconsin-Oshkosh 2-1 in the NCAA Tournament.

Current record: 10-6-4 (4-0-2, UAA champ)

This week: 1:30 p.m. Saturday, Nov. 4, 2001 NCAA Division III Championship at Gustavus Adolphus College (St. Peter, Minn.)

Volleyball Bears snare eighth NCAA crown

The Bears captured their seventh-consecutive NCAA title - the 14th overall - defeating the University of Rochester (N.Y.) 15-12, 15-11, 15-13 on Wednesday, Oct. 25, at Point Park (Pittsburgh). The University of Rochester beat the Bears twice last season, but the Bears bounced back by scoring a 49-22 defeat on Saturday, Oct. 28. The Bears capped their remarkable run to the title by upsetting second-ranked Carnegie Mellon University (Pittsburg). The next day, a telephone call confirmed another first for the Bears as the NCAA Division III title. The Bears begin postseason play Friday, Nov. 4, meeting the winner of the Wednesday, Nov. 1, match between the University of California, San Diego, and Lutheran University (Thousand Oaks).

The Bears capped their remarkable run to the league title as sophomore Vanessa Young drilled a goal in the 70th minute against Carnegie Mellon. The Bears also defeated the University of Wisconsin-Oshkosh 2-1 in the NCAA Tournament.

Current record: 10-6-4 (4-0-2, UAA champ)

This week: 1:30 p.m. Saturday, Nov. 4, 2001 NCAA Division III Championship at Gustavus Adolphus College (St. Peter, Minn.)

Volleyball Bears snare eighth NCAA crown

The Bears captured their seventh-consecutive NCAA title - the 14th overall - defeating the University of Rochester (N.Y.) 15-12, 15-11, 15-13 on Wednesday, Oct. 25, at Point Park (Pittsburgh). The University of Rochester beat the Bears twice last season, but the Bears bounced back by scoring a 49-22 defeat on Saturday, Oct. 28. The Bears capped their remarkable run to the title by upsetting second-ranked Carnegie Mellon University (Pittsburg). The next day, a telephone call confirmed another first for the Bears as the NCAA Division III title. The Bears begin postseason play Friday, Nov. 4, meeting the winner of the Wednesday, Nov. 1, match between the University of California, San Diego, and Lutheran University (Thousand Oaks).

The Bears capped their remarkable run to the league title as sophomore Vanessa Young drilled a goal in the 70th minute against Carnegie Mellon. The Bears also defeated the University of Wisconsin-Oshkosh 2-1 in the NCAA Tournament.

Current record: 10-6-4 (4-0-2, UAA champ)

This week: 1:30 p.m. Saturday, Nov. 4, 2001 NCAA Division III Championship at Gustavus Adolphus College (St. Peter, Minn.)

Cross country teams cruise in UW invite

The men's and women's cross country teams placed first and second in the UW Invitational on Saturday, Oct. 28. The meet provided the final tune-up before the NCAA Division III Midwest Regionals, which will take place at Washington-Wilkes, Wis. Freshman Emily Richard won the women's race in 20:21 to place second. There are no more races for the women before the NCAA Division III Regional meet on Nov. 4, 2001.

Current record: 34-3 (12-0, UAA champ)

This week: 7:00 p.m. Wednesday, Nov. 1, vs. Southern Illinois University

Edwardsville, Field House: 9:00 a.m. Saturday, Nov. 4, at College of St. Francis (Joliet, Ill.). 11 a.m. Saturday, Nov. 4, at College of St. Francis (Joliet, Ill.)

Bears wrap up regular season at home

Winning only their second nine-win season in the football program's 105-year history, the Bears close out the regular season against Colorado College (Colorado Springs) on Saturday, Nov. 4, at Francis Field. The Bears upped their overall record to 8-1 by handling Case Western Reserve, 24-21, on Saturday, Oct. 28, and thus avoiding four touchdowns and no interceptions.

Current record: 8-1 (3-1 UAA)

This week: 2:00 p.m. Saturday, Nov. 4, vs. Colorado College, Francis Field

Swimming, diving teams open seasons with wins

The men and women's swimming and diving teams were successful in their opening meets at Millikin University (Deatur, Ill.). The men won five of the nine individual events and the women won eight of the nine races.

Current record: Both teams are 1-0

This week: 6:30 p.m. Friday, Nov. 3, vs. Northeast Missouri State University

Washington University Record / Nov. 2, 1995    5
ARL seeks next-generation technology — from page 1

As ARL director, Parulkar oversees 1172 full-time engineers and seven full-time faculty; the program supports three master's degree students and six doctoral candidates. Industry and government collaborators at the ARL range from telecommunications giants AT&T Bell Laboratories, Bellcore and Rockwell to the National Institutes of Health, the Air Force and Space shuttle contractor McDonnell Douglas.

Gurra M. Parulkar

McDonnell Douglas.

As an example of the next-generation network technologies the ARL is working on, Parulkar noted the design and development of a new switch that can economically support different output fiber links and multicast/broadcast applications with thousands of recipients. Delivering gigabits to applications makes the work of the I/O (input/output) subsystem more versatile and distributable — a concept called the desk-area network. To make it real, the ARL engineers are developing a prototype desk-area network and plan to demonstrate its ability to distribute data and interconnect various other computer components and devices, including a video camera, high-definition television and various multimedia devices.

The project will culminate with the creation of an extremely fast gigabit network testbed with multiple switching systems supporting link speeds of 600 megabits per second, 1.2 gigabits per second and 2.4 gigabits per second. The testbed also will support desk-area network workstations and server applications at 1.2 gigabits per second.

“Exciting it's to be director of ARL because we have a great organization and a very strong foundation in high-speed telecommunications,” said Parulkar. “The big challenge will be to stay on top as we have been and continue to move the world, which is becoming more competitive, that the next-generation technologies we are developing are the things that will make better products in the future.”

Tony Fitzpatrick

Sophomore Marchelle Thruston (left) and freshman Katrina Harris practice their presentation behind the stage in Simon Hall’s May Auditorium in preparation for a recent presentation by new students on programs on campus. Sarawek portrayed legendary singer Billie Holiday, and Harris portrayed abolitionist Sojourner Truth.

Scholar Steven Katz to deliver Holocaust Memorial Lecture

T he Psychological Service Center moved Oct. 13 to Washington University's West Campus. The center is located in 7 N. Jackson Ave., and the new campus box number is 1172. The telephone number, 935-6555, remains the same.

The center is part of the Department of Psychology and was housed for 22 years in Eads Hall on the Hilltop Campus. In addition to providing therapy on a sliding-scale fee to people in the St. Louis community, the center provides training opportunities for advanced graduate students in the University's psychology program. The students are the therapists and are closely supervised by faculty members.

Amy D. Bertelson, Ph.D., director of the center, said the move and location will be a benefit to St. Louisans who use the center.

"The center offers much more professional in the new location," said Bertelson. "It's more open and inviting. That will make it easier for our clients to find us and to park, so it will enable us to provide better service to the St. Louis community."

Because of the move, the center has expanded to 9,000 square feet from 1,300 in its previous location. This enables the center to provide twice as many therapy sessions and expanded business services. Previously, testing sessions could take place only in therapy rooms when they weren't in use. Now the center will have separate spaces for each activity.

Many local hospitals, including Barnes and St. Mary's, refer clients to the center, said Bertelson. "It provides personality and IQ tests, as well as tests for learning disabilities such as hyperactivity and dyslexia. The tests that use the testing resources are school-age children and older adults. Therapy sessions are held with individuals and with groups. Group therapy sessions focus on such issues as eating disorders, depression and coping with "difficult" children. The center also offers an In Home Services Program, video facilities capable of tape sessions in three different therapy rooms simultaneously. Videos are an important tool for students to review sessions they have conducted with clients and for faculty to review videotaped sessions. Videos also help faculty supervise students reviewing their own work.

The center is offering three different therapy groups: one for adults, another for children and a group for women 22 and older who binge eat or are obsessed with eating; female adult survivors of childhood sexual abuse; and one for parents with "difficult" children. Groups will begin meeting in mid-November. For more information, call the Psychological Service Center at 935-6555.

Debby Aronson

Project aims for better data-gathering — from page 1

The research emphasizes not only rapid information exchange but also mechanisms that provide extensive use of information.

"Our goal is to empower people not only to find information in a global electronic infrastructure but also to combine and analyze this information to provide a more relevant, personal creation of new knowledge," Goldman said. As an example of the new knowledge, Goldman cited collaboration with Rudolf B. Hauser, Ph.D., professor of mechanical engineering and director of the University's Center for Air Pollution Research and Control Technology (CAPTA), the world's largest private collection of air-pollutant data. Goldman will try to apply tools used in CAPTA to develop a better and analyze air-pollution data from servers as diverse as satellites and government and university databases to industry servers. The tools would allow CAPTA re-

Tony Fitzpatrick

The center looks much more professional in the new location," said Bertelson. "It's more open and inviting. That will make it easier for our clients to find us and to park, so it will enable us to provide better service to the St. Louis community."

Because of the move, the center has expanded to 9,000 square feet from 1,300 in its previous location. This enables the center to provide twice as many therapy sessions and expanded business services. Previously, testing sessions could take place only in therapy rooms when they weren't in use. Now the center will have separate spaces for each activity.

Many local hospitals, including Barnes and St. Mary's, refer clients to the center, said Bertelson. "It provides personality and IQ tests, as well as tests for learning disabilities such as hyperactivity and dyslexia. The tests that use the testing resources are school-age children and older adults. Therapy sessions are held with individuals and with groups. Group therapy sessions focus on such issues as eating disorders, depression and coping with "difficult" children. The center also offers an In Home Services Program, video facilities capable of tape sessions in three different therapy rooms simultaneously. Videos are an important tool for students to review sessions they have conducted with clients and for faculty to review videotaped sessions. Videos also help faculty supervise students reviewing their own work.

The center is offering three different therapy groups: one for adults, another for children and a group for women 22 and older who binge eat or are obsessed with eating; female adult survivors of childhood sexual abuse; and one for parents with "difficult" children. Groups will begin meeting in mid-November. For more information, call the Psychological Service Center at 935-6555.

Debby Aronson

Project aims for better data-gathering — from page 1

The research emphasizes not only rapid information exchange but also mechanisms that provide extensive use of information.

"Our goal is to empower people not only to find information in a global electronic infrastructure but also to combine and analyze this information to provide a more relevant, personal creation of new knowledge," Goldman said. As an example of the new knowledge, Goldman cited collaboration with Rudolf B. Hauser, Ph.D., professor of mechanical engineering and director of the University's Center for Air Pollution Research and Control Technology (CAPTA), the world's largest private collection of air-pollutant data. Goldman will try to apply tools used in CAPTA to develop a better and analyze air-pollution data from servers as diverse as satellites and government and university databases to industry servers. The tools would allow CAPTA re-

Tony Fitzpatrick

The center looks much more professional in the new location," said Bertelson. "It's more open and inviting. That will make it easier for our clients to find us and to park, so it will enable us to provide better service to the St. Louis community."

Because of the move, the center has expanded to 9,000 square feet from 1,300 in its previous location. This enables the center to provide twice as many therapy sessions and expanded business services. Previously, testing sessions could take place only in therapy rooms when they weren't in use. Now the center will have separate spaces for each activity.

Many local hospitals, including Barnes and St. Mary's, refer clients to the center, said Bertelson. "It provides personality and IQ tests, as well as tests for learning disabilities such as hyperactivity and dyslexia. The tests that use the testing resources are school-age children and older adults. Therapy sessions are held with individuals and with groups. Group therapy sessions focus on such issues as eating disorders, depression and coping with "difficult" children. The center also offers an In Home Services Program, video facilities capable of tape sessions in three different therapy rooms simultaneously. Videos are an important tool for students to review sessions they have conducted with clients and for faculty to review videotaped sessions. Videos also help faculty supervise students reviewing their own work.

The center is offering three different therapy groups: one for adults, another for children and a group for women 22 and older who binge eat or are obsessed with eating; female adult survivors of childhood sexual abuse; and one for parents with "difficult" children. Groups will begin meeting in mid-November. For more information, call the Psychological Service Center at 935-6555.

Debby Aronson

Project aims for better data-gathering — from page 1

The research emphasizes not only rapid information exchange but also mechanisms that provide extensive use of information.

"Our goal is to empower people not only to find information in a global electronic infrastructure but also to combine and analyze this information to provide a more relevant, personal creation of new knowledge," Goldman said. As an example of the new knowledge, Goldman cited collaboration with Rudolf B. Hauser, Ph.D., professor of mechanical engineering and director of the University's Center for Air Pollution Research and Control Technology (CAPTA), the world's largest private collection of air-pollutant data. Goldman will try to apply tools used in CAPTA to develop a better and analyze air-pollution data from servers as diverse as satellites and government and university databases to industry servers. The tools would allow CAPTA re-
Karen A. Flis, Ph.D., assistant professor of art history and archaeology in Arts and Sciences, co-taught a course at Northwestern University, where she received a doctorate in fine arts in 1995. She previously held curatorial and publica-

8

tions positions at The New Museum of Contemporary Art and the Institute for Contemporary Art in Los Angeles. Her research interests include 20th-century European art and culture, contemporary art, and art theory. She completed her undergraduate education in art history and studio art in 1985 from Brown University.

Rona Foudas, professor of art, came from the University of North Carolina at Chapel Hill, where she was a visiting professor of art history. She taught at the University of Miami in Coral Gables, Fla., and Ohio University in Athens. He is a ceramic sculptor whose large-scale works in clay have earned him a national and international reputation. Fonadas received a bachelor's degree in art from the University of Toronto in 1976 and a master's degree in fine arts in 1980 from the University of California, San Francisco, where she was a general surgery resident. His research interests are nonresidential care in AIDS-affected African-American communities and other Medicaid recipients. Fonadas received a bachelor's degree in philosophy in 1986 from Yale University and a law degree in 1990 from Yale.

John G. Robertson, Ph.D., assistant professor of art history and archaeology at the University of Toronto, received his doctorate in social policy in 1995. He has taught at the University of Virginia and the University of Miami. His research focuses on social movements that confront AIDS in African-American communities and other Medicaid recipients. Robertson received a bachelor's degree in philosophy in 1986 from Yale University and a law degree in 1990 from Yale.

Karen A. Porter, J.D., associate professor of art history and archaeology at the University of Toronto, received her master's degree in social work in 1988 from the University of Minnesota. She also has a bachelor's degree in molecular biology from the University of California, Berkeley, and a master's degree in fine arts in 1980 from the University of California, San Francisco. She was named a visiting professor of art history and archaeology at the University of Toronto in 1985 from Brown University.

Ron Fondas, professor of art, came from the University of North Carolina at Chapel Hill, where he was a visiting professor of art history. He taught at the University of Miami in Coral Gables, Fla., and Ohio University in Athens. He is a ceramic sculptor whose large-scale works in clay have earned him a national and international reputation. Fonadas received a bachelor's degree in art from the University of Toronto in 1976 and a master's degree in fine arts in 1980 from the University of California, San Francisco, where he was a general surgery resident. His research interests are nonresidential care in AIDS-affected African-American communities and other Medicaid recipients. Fonadas received a bachelor's degree in philosophy in 1986 from Yale University and a law degree in 1990 from Yale.

John G. Robertson, Ph.D., assistant professor of art history and archaeology at the University of Toronto, received his doctorate in social policy in 1995. He has taught at the University of Virginia and the University of Miami. His research focuses on social movements that confront AIDS in African-American communities and other Medicaid recipients. Robertson received a bachelor's degree in philosophy in 1986 from Yale University and a law degree in 1990 from Yale.

Karen A. Porter, J.D., associate professor of art history and archaeology at the University of Toronto, received her master's degree in social work in 1988 from the University of Minnesota. She also has a bachelor's degree in molecular biology from the University of California, Berkeley, and a master's degree in fine arts in 1980 from the University of California, San Francisco. She was named a visiting professor of art history and archaeology at the University of Toronto in 1985 from Brown University.

Ron Fondas, professor of art, came from the University of North Carolina at Chapel Hill, where he was a visiting professor of art history. He taught at the University of Miami in Coral Gables, Fla., and Ohio University in Athens. He is a ceramic sculptor whose large-scale works in clay have earned him a national and international reputation. Fonadas received a bachelor's degree in art from the University of Toronto in 1976 and a master's degree in fine arts in 1980 from the University of California, San Francisco, where he was a general surgery resident. His research interests are nonresidential care in AIDS-affected African-American communities and other Medicaid recipients. Fonadas received a bachelor's degree in philosophy in 1986 from Yale University and a law degree in 1990 from Yale.

John G. Robertson, Ph.D., assistant professor of art history and archaeology at the University of Toronto, received his doctorate in social policy in 1995. He has taught at the University of Virginia and the University of Miami. His research focuses on social movements that confront AIDS in African-American communities and other Medicaid recipients. Robertson received a bachelor's degree in philosophy in 1986 from Yale University and a law degree in 1990 from Yale.

Karen A. Porter, J.D., associate professor of art history and archaeology at the University of Toronto, received her master's degree in social work in 1988 from the University of Minnesota. She also has a bachelor's degree in molecular biology from the University of California, Berkeley, and a master's degree in fine arts in 1980 from the University of California, San Francisco. She was named a visiting professor of art history and archaeology at the University of Toronto in 1985 from Brown University.
Campus competition boosts United Way drive

A little healthy competition between the Hilltop, West and medical campuses is motivating Washington University's annual United Way campaign to raise more than ever before, organizers said.

"The competition between campuses has generated more involved donors and people saying "we've had it in the past,"" said Clarence C. Barkdale, coordinator of the University's campaign and vice chairman of the Board of Trustees. "We're on our way to $300,000." The campaign so far has raised more than $260,000 and is scheduled to end early this month. This year, for the first time, the three campuses were encourage to compete against each other.

"Any gift at any level is greatly appreciated," Barkdale said. "We are interested in getting everyone to participate." West Campus organizers held a meeting Sept. 20 to rally their participants. The speakers were Barkdale; William D. Fink, chief of the Board of Trustees; Ted Dagefeld, United Way representative; and Susan Richard, executive director of the Campaign and director of the School of Medicine. Employees who are interested in getting everyone to participate are encouraged to contact their campaign coordinator.

The drawing will be held Thursday, Nov. 1. The Hilltop Campus organizers held a breakfast meeting Sept. 21 to rally the campaign and asking for a donation. Several fliers reminding them about the rally were distributed to Hilltop employees.

The Hilltop Campus organizers held a meeting Sept. 20 to rally their participants. The speakers were Barkdale; William D. Fink, chief of the Board of Trustees; Ted Dagefeld, United Way representative; and Susan Richard, executive director of the Campaign and director of the School of Medicine. Employees who are interested in getting everyone to participate are encouraged to contact their campaign coordinator.

As a gesture of his appreciation for the campus community's participation, Chancellor Mark S. Wrighton, Ph.D., will send a special token of thanks to each campaign participant as a thank-you gift.

Quality enrollment stressed — from page 1

The University invited freshmen this fall to enroll in programs that involved cross-disciplinary pursuits. For example, a freshman might pursue degree in both the School of Engineering and Applied Sciences and the School of Arts and Sciences or pursue majors in both the John M. Olin School of Business and the School of Arts and Sciences.

The fall 1995 total enrollment of 10,122 students, 4,014 of whom are degree-granting programs including 4,493 undergraduate and 5,129 graduate students. The University's total enrollment of 27,835 students has maintained about the same for many years despite a dramatic increase in the quality of students rather than quantity, said Stuart D. Yok, University registrar.

The following fall and winter 1996 enrollment data were provided.

The University of Missouri-Kansas City has 5,000 undergraduate and 3,254 graduate students.

From the Athletic Complex. The theft occurred between 4 p.m. and 5 p.m. on Oct. 29.

A student reported being accosted by an unidentified subject after a verbal argument in a park near the University's administration building.

The student was treated for a cut at a local hospital.

The drawing will be held Thursday, Nov. 1. The Hilltop Campus organizers held a breakfast meeting Sept. 21 to rally the campaign and asking for a donation. Several fliers reminding them about the rally were distributed to Hilltop employees.

The Hilltop Campus organizers held a meeting Sept. 20 to rally their participants. The speakers were Barkdale; William D. Fink, chief of the Board of Trustees; Ted Dagefeld, United Way representative; and Susan Richard, executive director of the Campaign and director of the School of Medicine. Employees who are interested in getting everyone to participate are encouraged to contact their campaign coordinator.

As a gesture of his appreciation for the campus community's participation, Chancellor Mark S. Wrighton, Ph.D., will send a special token of thanks to each campaign participant as a thank-you gift.

Quality enrollment stressed — from page 1

The University invited freshmen this fall to enroll in programs that involved cross-disciplinary pursuits. For example, a freshman might pursue degree in both the School of Engineering and Applied Sciences and the School of Arts and Sciences or pursue majors in both the John M. Olin School of Business and the School of Arts and Sciences.

The fall 1995 total enrollment of 10,122 students, 4,014 of whom are degree-granting programs including 4,493 undergraduate and 5,129 graduate students. The University's total enrollment of 27,835 students has maintained about the same for many years despite a dramatic increase in the quality of students rather than quantity, said Stuart D. Yok, University registrar.

The following fall and winter 1996 enrollment data were provided.

The University of Missouri-Kansas City has 5,000 undergraduate and 3,254 graduate students.

From the Athletic Complex. The theft occurred between 4 p.m. and 5 p.m. on Oct. 29.

A student reported being accosted by an unidentified subject after a verbal argument in a park near the University's administration building.

The student was treated for a cut at a local hospital.

The drawing will be held Thursday, Nov. 1. The Hilltop Campus organizers held a breakfast meeting Sept. 21 to rally the campaign and asking for a donation. Several fliers reminding them about the rally were distributed to Hilltop employees.

The Hilltop Campus organizers held a meeting Sept. 20 to rally their participants. The speakers were Barkdale; William D. Fink, chief of the Board of Trustees; Ted Dagefeld, United Way representative; and Susan Richard, executive director of the Campaign and director of the School of Medicine. Employees who are interested in getting everyone to participate are encouraged to contact their campaign coordinator.

As a gesture of his appreciation for the campus community's participation, Chancellor Mark S. Wrighton, Ph.D., will send a special token of thanks to each campaign participant as a thank-you gift.

Quality enrollment stressed — from page 1

The University invited freshmen this fall to enroll in programs that involved cross-disciplinary pursuits. For example, a freshman might pursue degree in both the School of Engineering and Applied Sciences and the School of Arts and Sciences or pursue majors in both the John M. Olin School of Business and the School of Arts and Sciences.

The fall 1995 total enrollment of 10,122 students, 4,014 of whom are degree-granting programs including 4,493 undergraduate and 5,129 graduate students. The University's total enrollment of 27,835 students has maintained about the same for many years despite a dramatic increase in the quality of students rather than quantity, said Stuart D. Yok, University registrar.

The following fall and winter 1996 enrollment data were provided.

The University of Missouri-Kansas City has 5,000 undergraduate and 3,254 graduate students.

From the Athletic Complex. The theft occurred between 4 p.m. and 5 p.m. on Oct. 29.

A student reported being accosted by an unidentified subject after a verbal argument in a park near the University's administration building.

The student was treated for a cut at a local hospital.

The drawing will be held Thursday, Nov. 1. The Hilltop Campus organizers held a breakfast meeting Sept. 21 to rally the campaign and asking for a donation. Several fliers reminding them about the rally were distributed to Hilltop employees.

The Hilltop Campus organizers held a meeting Sept. 20 to rally their participants. The speakers were Barkdale; William D. Fink, chief of the Board of Trustees; Ted Dagefeld, United Way representative; and Susan Richard, executive director of the Campaign and director of the School of Medicine. Employees who are interested in getting everyone to participate are encouraged to contact their campaign coordinator.