The Age of “Reason”

School of Engineering sophomore Karen Reed and freshman David Discher direct their robot, “Reason,” to locate and collect two-inch foam-rubber cubes. Eleven engineering school students, sponsored by Roger 0. Chamberlain, D.Sc., associate professor of electrical engineering, spent six months designing and building robots to perform physical tasks. The challenge was part of the 10th annual W.J. “Jerry” Sanders Creative Design Contest held March 14-15 at the University of Illinois, Urbana-Champaign (UIUC). “Reason” finished seventh out of a field of 40, and another Washington University robot, “The Lisa,” finished fourth in the contest. Teams from five Midwest universities competed. The contest is sponsored by UIUC and Advanced Micro Devices Inc. (AMD), an international semi-conductor company. More information on the competition and the engineering school’s robotics team can be found at http://www.ee.wustl.edu/robot.

A network for the future

University chosen for new national supercomputing partnership

Washington University has been selected as one of 11 prominent data storing and distributing sites in a new national supercomputing association that seeks to compute, move and store vast amounts of images and data at previously unattainable speeds and volumes.

Sponsored by the National Science Foundation (NSF), the National Partnership for Advanced Computational Infrastructure (NPACI) will build a comprehensive, national computational infrastructure providing computing tools to empower scientists and engineers in wide-ranging disciplines to achieve research goals. Altogether, NPACI draws wide-ranging disciplines to achieve comprehensive, national computational volumes.

The new partnership is led by the San Diego Supercomputer Center at the University of California at San Diego (UCSD). Beginning Oct. 1, the new partnership will receive $170 million over a five-year period with the possibility of a five-year extension. The infrastructure provided by NPACI will be used to tackle currently stymied scientific and engineering problems facing the nation, such as climate and weather prediction; the design of complex drugs and biomedical materials, and computerized maps of the human brain. The infrastructure is expected to spur development among computer vendors and support competitiveness in industry with higher-performance computing and communications services than previously available.

It also will support the educational community by developing electronic environments to encourage long-distance collaboration and to provide new and faster delivery mechanisms for electronic information.

The University has been designated as an archival and networking site where data will be stored and transmitted to the 10 other collaborators nationwide.

The University’s strengths in networking and high-speed fiber optic computing, plus ambitious biomedical engineering projects such as brain mapping, made the University an attractive partner in the NPACI association, said Jerome R. Cox Jr., Sc.D., Wake Forest University School of Medicine, director of the NPACI. The new partnership will receive $170 million over a five-year period with the possibility of a five-year extension.

John R. Loya joins Washington University as vice chancellor for human resources

John R. Loya has been named vice chancellor for human resources at Washington University effective July 1, according to Chancellor Mark S. Wrighton.

Loya has nearly three decades of experience as a human resources officer, including the last five years as associate vice president and chief human resources officer of the University of Texas M.D. Anderson Cancer Center in Houston. He previously served as vice president for human resources at Northwestern Memorial Hospital in Chicago from 1987 until 1992. Northwestern Memorial Hospital is affiliated with the Northwestern University School of Medicine.

Loya succeeds Gloria W. White, who will retire on June 30 as vice chancellor for human resources after serving 22 years as the chief personnel officer of the University.

“I am very pleased that John Loya has agreed to join us as Washington University’s chief human resources officer,” Wrighton said. “He brings with him a breadth of experience in service to the University.”

Former prime minister of New Zealand to be Commencement speaker

The Right Honorable Sir Geoffrey Winston Russell Palmer, former prime minister of New Zealand, will deliver Washington University’s 136th Commencement address on May 16. The title of his talk is “The Future, the University and Education.” Commencement begins at 8:30 a.m. with the traditional academic procession into Brookens Quadrangle. Palmer will receive an honorary doctor of laws during the ceremony.

“I am delighted that an individual of Sir Geoffrey Palmer’s stature will give the Commencement address,” said Chancellor Mark S. Wrighton, who is known internationally for his leadership of the government of New Zealand and for his advocacy on behalf of a worldwide approach to economic growth and environmental sustainability, issues that form the core of Palmer’s talk.

Palmer has delivered two previous talks at the School of Law.

Schuchard named first Desmond Lee professor

Creating a strong belief in individual responsibility and service to the community, E. Desmond Lee announced a new endowed professorship supporting school-community involvement at Washington University with a gift of $1.5 million. Lee, who is this year’s St. Louis Man of the Year, made the announcement in his acceptance speech during the award ceremony on Thursday, April 3, at Powell Symphony Hall. Lee said he was establishing the E. Desmond Lee Endowed Professorship for Community Collaboration in perpetuity. The chair will move from school to school at the University in five-year intervals, beginning with the School of Art.

W. Patrick Schuchard, associate professor and head of the painting program in the art school, is the first person selected for the professorship, announced Joe Deal, dean of the art school. “Pat has a long-standing involvement in the St. Louis community as an advocate for the arts, with initiatives that include town meetings, open forums and other arts-related efforts to generate new ideas,” Deal said.

John R. Loya
School creates emergency-medicine residency program

About 100,000 patients visit the emergency departments at Barnes-Jewish and St. Louis Children’s hospitals each year, bringing enough trauma and disease to keep any student of emergency medicine busy for years. But residents who wanted to specialize in emergency medicine have always had to go elsewhere for their training — until now.

This summer, 10 residents will inaugurate a new School of Medicine residency program in emergency medicine. The program, the first of its kind in the region, will help establish the medical school as a premier center for emergency care and research, said Dana M. Chapman, M.D., Ph.D., associate professor of medicine and program director.

Chapman joined the medical school in 1996 to help start the new program. "I saw that the potential here was just phenomenal for establishing one of the best emergency residency programs in the country," he said.

Charles Zorumski named new head of psychiatry department

Charles F. Zorumski, M.D., professor of psychiatry and associate professor of anatomy and neurology, has been named head of the Department of Psychiatry. He also will become psychiatrist-in-chief at Barnes-Jewish and St. Louis Children’s hospitals, pending confirmation of the hospitals’ boards of trustees.

The appointment, effective April 1, was announced by William A. Peck, M.D., executive vice chancellor for medical affairs, dean of the School of Medicine and president of Washington University Medical Center.

"Chuck Zorumski excels as a clinician, researcher and teacher and is a well-rounded person," Peck said. "I have enjoyed very much our discussions culminating in his acceptance of this most important position. I believe that Chuck will provide the leadership necessary to enhance one of the best departments of psychiatry in the world."

Zorumski replaces Samuel B. Guez, M.D., who headed the department from 1975 until 1989 and again from 1993 to the present. Guez, who will remain

Scientists clarify links between heart attacks and depression

School of Medicine investigators have found that depression may interfere with the heart's normal rhythm and can put people at increased risk for heart attack and premature death.

The finding was reported March 21 at the annual meeting of the American Psychosomatic Society in Santa Fe, N.M. Phyllis K. Stein, Ph.D., research instructor of medicine, said that depression appears to affect the heart's rhythm, and more severe depression has a greater negative effect. Working with Robert M. Carney, Ph.D., professor of psychology in psychiatry, Stein found that severe depression is associated with a significant reduction in heart-rate variability, the heart's response to normal body fluctuations such as blood pressure, breathing and body temperature.

"When the heart rate is less flexible, the system is less able to adapt to changing risk increases," Stein said. "In fact, past studies have found that, in patients who have a heart attack, low heart-rate variability is associated with a five-fold increase in death within a year.

Investigators have known for years that when people with heart disease become depressed, they have a higher risk of heart attack or of dying prematurely. One in three heart attack patients suffers from severe depression and as many as a third have milder forms of depression with sadness, loss of appetite, sleep problems, fatigue and loss of interest in activities. "An estimated 30 percent to 40 percent of patients with new or repeated coronary heart disease, Stein found that the 39 who also were depressed tended to have higher heart rates and less heart-rate variability. Comparing 19 patients with moderate to severe depression to the other 203 patients who were not depressed, the moderate range, Stein found that the more severely depressed patients had significantly lower heart-rate variability than those with mild to moderate depression. "Stress and a money believe severe depression may affect the autonomic nervous system, which controls heart rhythm, perhaps by changing the normal secretions of stress hormones."

Charles F. Zorumski

Charles F. Zorumski

Spencer T. Olin Professor of Psychiatry, is stepping down to teach and continue his research.

"We are extremely fortunate to have Zorumski available to assume the important position of psychiatrist-in-chief for Barnes-Jewish and St. Louis Children’s hospitals,” said Alan W. Brass, president of Barnes-Jewish Hospital and executive vice president for operations of BJC Health System. "His clinical expertise and leadership capabilities ensure continuation of the excellent psychiatric services that have been so ably advanced during Dr. Guez’s tenure.

Zorumski is a renowned expert on depression and its treatment. His clinical research focuses on the safety and efficacy of electroconvulsive therapy (ECT) in patients with psychiatric disorders. He is particularly interested in synaptic transmission and the ways that brain cells communicate in the hippocampus, a brain region important to learning and memory.

Zorumski is a noted authority on the phenomenon known as long-term potentiation, a natural process in the hippocampus that enhances cellular communication. Zorumski’s lab is one of only a few in the world specializing in this area.

Zorumski serves on the editorial board of the journal Neurobiology of Disease and is an ad hoc reviewer for dozens of other journals.

He received a bachelor’s degree in chemistry in 1974 and a medical degree in 1978, both from Saint Louis University. Following completion of a psychiatry residency at Washington University’s Barnes-Jewish Hospital Medical Center in 1983, where he was bestowed the honor of chief resident, Zorumski joined the faculty as an instructor in the psychiatry department. He was promoted to full professor of psychiatry and neurobiology in 1993.

Zorumski’s predecessor, Guez, helped the University’s biological approach to studying depression.
Carl Safe teaches architecture by design

For Associate Professor of Architecture James R. Harris said Safe, a longtime friend: "Carl is dedicated to doing everything well — his insistence on quality is evidenced in all his students' work and in his own work." — Cynthia Weese

Having worked in the Peace Corps in Bolivia — after receiving a bachelor's degree from the University of Minnesota School of Architecture in 1966 — Safe brings to the studio an understanding of architecture in its cultural context. His international perspective was further influenced by travel to Brazil, Uruguay, Argentina, Peru and Mexico. Safe also harbors a special fondness for Paris — his students gave him and his wife an all expense-paid trip there to mark his 20th anniversary at the architecture school. Safe, who has served in various administrative positions at the University, including as director of the school's graduate program and as an associate dean, said he enjoys teaching. His work at the architecture school also takes priority over his part-time architectural practice. "I am a faculty member who practices, not a practitioner who teaches," Safe said.

The architect Dean Cynthia Weese, FAIA, noted Safe's "numinous and invaluable" contributions to the school during the last 27 years. "He is first and foremost a fine teacher and has been an outstanding designer and provincial creator. "A few years ago, a group of us played a game where we tried to summarize a person in one word," said Harris, who also is dean of the architecture school's under- graduate program. "The word for Carl is an artist. The idea of the way things are made is very much a part of all of his work. Carl has the ability to focus on individuals and the built environment," he said. "One of the ways is they strive to create context and give meaning to their work. Said Safe: "For me, it represents the best that architecture has to offer, architecture that is truly capable of lifting the human spirit. It proves it is possible to make poetry." After spending weeks in Herve's Parisian office — a roughly 10-by-16-foot room, lined with ceiling-to-floor shelving full of binders, each crammed with pages of negatives — Safe ultimately gleaned 45 never- published images. In describing the 86-year-old photographer's life's work, Safe hones in on Herve's eye for detail. "Herve considers photography a type of collage," Safe said. "His interest is in photography, compositions, bits, pieces, interactions, textures and parts." For him, invention to these bits and pieces is the ultimate role of architects as they strive to create context and give meaning to their work. A constant struggle in my own practice to discover how connections can be made between people and the built environment," he said. "One of the ways is through detailing." When renovating a private home or tackling major restoration projects, he said Safe brings fine architectural craftsmanship and the keen eye of an artist. His care is exhibited in the hundreds of detailed covers he designed for the bolts that resecured the Tivoli Theatre's facade to the building, as well as in his detailed realizations of the streetcape in The Loop. The facade's decorative, pre-cast concrete panels, including two large arches breaking the line of the parapet, give the building a majestic appearance. The inviting, well-lighted windows of the seven storefronts below clearly define the boutiques on the street level and beckon strolling shoppers.

The owners of the Tivoli and nearby Blueberry Hill Restaurant & Pub, Joe and Linda Edwards, a 1976 alumna of the School of Architecture, said they are delighted with Safe's transformation of both locations. "At Blueberry Hill, he took off the entire front and rebuilt it," Joe Edwards said. "He opened up the upper-level windows, allowing us to display neon lights that really add vibrancy and color. He designed the canopy over the entrance and created the display window and the fine cabinets for the Chuck Berry display inside." At the Tivoli, Safe and the Edwardses gutted and rebuilt the building — the upper levels of which once had been condemned because deteriorating panels posed fire hazards. "I'm thrilled with the results," Edwards said. "That building has made a whole difference to the surrounding community. It's a signal that this area is back to stay." A resident of University City, Safe takes pride in work that benefits the community where he and his wife, Karen, raised their children, Eleanor, 24, and Jesse, 21. Safe's other work in The Loop includes renovating Streetside Records, characterized by large display windows and a black-and-white motif; and The Market, with long horizontal windows that offer glimpses of pizza dough being tossed and freshly baked bread cooling on racks. The Market also is noteworthy for its decorative brick wall, which extends one story above the roof line and is cut away to allow the display of simple, blue-and-white banners signifying The Market's wares.

Architecture a type of collage, Safe says, is dedicated to doing everything well — his insistence on quality is evidenced in all his students' work and in his own work. — Cynthia Weese

Having worked in the Peace Corps in Bolivia — after receiving a bachelor's degree from the University of Minnesota School of Architecture in 1966 — Safe brings to the studio an understanding of architecture in its cultural context. His international perspective was further influenced by travel to Brazil, Uruguay, Argentina, Peru and Mexico. Safe also harbors a special fondness for Paris — his students gave him and his wife an all expense-paid trip there to mark his 20th anniversary at the architecture school. Safe, who has served in various administrative positions at the University, including as director of the school's graduate program and as an associate dean, said he enjoys teaching. His work at the architecture school also takes priority over his part-time architectural practice. "I am a faculty member who practices, not a practitioner who teaches," Safe said.

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**Exhibitions**

"Calendar: Time: Student Performing Artists at Washington U." Through May 30. Special Collections, level five, Olin Library. 8:30 a.m. to 5:30 p.m. weekdays.

Master of Fine Arts Thesis Exhibition. Opening reception: 5 to 7 p.m. April 18. Exhibit runs through May 4. Gallery of Art, upper and lower galleries, Steinberg Hall. Hours: 10 a.m. to 4:30 p.m. weekdays. 1 to 5 p.m. weekends. 935-4523.

"Midway." First-year majors of fine arts students host an exhibit representing a range of styles and media. Open to public. 5 to 8 p.m. April 11. Exhibit runs through April 21. West Campus Bldg. Hours: 11 a.m. to 4:30 p.m. weekdays. 935-4761.

**Film**

All Filmboard movie times cost $3 and are shown in Room 190 Brown Hall. For the 24-hour Filmboard hotline, call 935-5983.

**Friday, April 11**

7 p.m. "Birthday Wish" Feature Series. "Love and Human Remain." (Also April 12, same time, and April 13 at 7 p.m.)

Midnight. Filmboard Midnight Series. "The Benkart Club." (Also April 12, same time, and April 13 at 7 p.m.)

**Monday, April 14**


4:30 p.m. Math colloquium. "Riemannian Structure From Laplacians," Nik Weaver, prof. of mathematics. Room 100 Cupples I Hall. 935-6720.

4:45 p.m. "Human Genes Prominently Expressed in the C elegans Genome," Gail A. P. Bruns, grad. student in biochemistry, senior vice president for education, Ameri-...
Saturday, April 11
12:30 p.m. Women’s tennis match. Washington University vs. Wabash. (CoSIDA).

Sunday, April 12
10 a.m.-5 p.m. The second annual Book Arts Market. A wide selection of treasures is on display, for sale or available by invitation and by mail. (See story on page 6.)

Monday, April 14
7-10 p.m.-two-third annual Internal Medicine Resident’s Evening. The topic is: "Medical Education in the 1990s: A Window into the Future." (See story on page 17.)

Tuesday, April 15
11:30 a.m.-2:30 p.m. Students Resources Training and Development Center seminar. "Managing Change and Stress," Juli Steinberg, assistant professor of psychology. Room 102 new music classroom building.

Thursday, April 17
3:30 p.m.-9 p.m. Latin American author Isabel Allende to close spring Assembly Series. She will read from her latest novel, "The House of the Spirits," which began as a novel for her dying grandfather. The book, written in the early 1980s, is a saga of three generations of the Trueba family interwoven with the history of Chile. The book later was made into a motion picture.

Sports

Men’s tennis pushing winning streak to four

Victories over Wheaton (Ill.) College and Carroll College have pushed the Bears’ season-long winning streak to four matches. The 4-1 win over Wheaton followed a 5-0 sweep of Carroll. "We are looking to continue our winning streak," said head coach Joe Lewis.

Friday, April 18

Saturday, April 19
10 a.m. Men’s tennis match. Bears vs. Maryville. (Terre Haute, Ind.) (2), Kelly Field.

Baseball Bears end their losing skid

An 11-run explosion helped WU’s baseball Bears end their losing streak at eight games with an 11-8 victory over NCAA Division III rival Maryville University. The Bears, who in recent weeks have been mired in an offensive slump, received a boost from senior catcher Chris Greiner, who doubled and homered and drove in a career-high four runs in the victory. Prior to the win over Maryville, the Bears had lost a heart-breaking 11-10 loss to Washington (Madison, N.J.) College and an 8-4 loss to nationally ranked NCAA Division II University of St. Louis.

Current record: 7-6

This week: 3:30 p.m. Thursday, April 10, vs. Saint Louis University; 2 p.m. Sunday, April 13, vs. Tennis Center, 6352 Forsyth Blvd.

Track and field squads set for WU Invitational

WU’s track and field teams competed Saturday, April 5, at the Northwest Missouri State University Invitational (Maryville, Mo.). The women’s team placed fifth and the men finished ninth in a field of more than 20 teams.

Two WU athletes earn GTE academic awards

Junior Derek DuBose recently earned his third consecutive GTE Academic All-America citation in two different sports during the spring season (men’s tennis and track and field) — was named to the Men’s Fall/Winter At-large College Division First Team. Christine O’Brien earned her second consecutive GTE Academic All-America citation in women’s cross country — was named to the Women’s Fall/Winter At-large College Division All-District II Team award.
Annual PRINTMARKET features fine artwork on paper

E xperienced and first-time art collectors can have an extraordinary array of fine prints and other works on paper at the 14th Symposium to be held April 29 at a meeting of the largest number of dealers since it began more than a decade ago, said chairperson and founder Cecile Lowenhaupt. "We want to offer a good mix of prints and other works on paper that will appeal to everyone," she said. "It's a chance for people to learn about art by talking with the dealers. Also, it provides the opportunity for this wonderful Gallery of Art to purchase an important new work."

The PRINTMARKET once again will offer several additional attractions. Representatives from Definition Framing and Stein Framing will be on hand to help patrons determine the best options for framing and matting their newly found masterpieces. In addition to books by local and regional artists, the market will include marbled and handmade paper, calligraphy books, supplies, rare books, self-published books and chapbooks, letterpress works and narrative art. Works produced by University students and by children also will be displayed.

Upcoming events include the event with a registration fee of $15. For more information or to register, call (314) 935-4643.

Annual PRINTMARKET features fine artwork on paper

Memory experts gather for one-day symposium

S ome of the world's leading experts on human memory and related brain functions will gather at Washington University April 12 for a daylong symposium exploring the latest breakthroughs in memory research.

Sponsored by the Department of Psychology and Arts and Sciences, the symposium will run from 9 a.m. to 5 p.m. in the Bryan Cave Moot Courtroom in Anheuser-Busch Hall. The event is free and open to the public.

The morning will feature half-hour presentations by Henry L. Roediger III, Ph.D., chair of the psychology department in Arts and Sciences, and by three other internationally recognized memory experts: Stephen J. Ceci, Ph.D., Cornell University; Iliana, N.Y.; Larry R. Squire, Ph.D., University of California at San Diego; and Daniel L. Schacter, Ph.D., Harvard University. These presentations are billed as a dry run for a similar symposium to be held April 29 at a meeting of the National Academy of Sciences (NAS) in Washington, D.C.

The afternoon schedule includes presentations by Mark R. Rosenzweig, Ph.D., University of California at Berkeley, and five University faculty members. Representing the School of Medicine are John W. Newcomer, M.D., professor of psychiatry; Steven E. Petersen, Ph.D., professor of neurology and associate professor of anatomy and neurobiology; and Marcus E. Raichle, M.D., professor of neurological surgery, and of radiology; and Endel Tulving, Ph.D., the Clark Way Harrison Distinguished Visiting Professor of Psychology.

The morning will also includes the presentation of a book written by Harrison Distinguished professor of psychology and of radiology. Presenters from the psychology department in Arts and Sciences are David A. Balota, Ph.D., professor and associate chair of psychology; and Endel Tulving, Ph.D., the Clark Way Harrison Distinguished Visiting Professor of Psychology.

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Jerome R. Cox Jr. receives Eliot Society’s ‘Search’ award

Jerome R. Cox Jr., Sc.D., the Harold B. and Adelaide G. Welge Professor of Environmental Engineering, will receive the 1997 William Greenleaf Eliot Faculty Award at the society’s annual dinner April 2 at the Ritz-Carlton Hotel. The award is presented annually to an outstanding citizen of the Washington University community.

"Few faculty have served Washington University as consistently as you have," said Sam Fox, president of the Eliot Society. Cox was honored because "of his tireless efforts to develop the first Gallery of Art. This is widely recognized within the scientific community as a major accomplishment. His most recent focus has been mapping the human genome, a global collaboration in which the University plays a key role."

Another important emphasis for Cox is Project Zeus, a body of work being conducted by a team of University physicists to develop new detectors for the ATM (asynchronous transfer mode) system, a "fast-packet" fiber-optic communications network. Project Zeus is widely recognized within the scientific community as a major accomplishment.

"Mr. Brakes" in the braking industry, he had a distinguished 40-year career at Washington University. He has been an influential leader in the development of computer communications, computer imaging and biomedical imaging.

Throughout his diverse and distinguished career, Cox has made numerous significant contributions covering an array of research areas. These include pioneering research in radiation treatment, research on cardiovascular arteries and atheromas, and computer programming in the use of CT (computerized tomography) and PET (positron emission tomography)." Cox will present the awards.

Mr. Oerflin received a bachelor's degree in 1982 in electrical engineering and a master's degree in business administration in 1992.

Parrish will receive the Young Alumni Award for his successful career and contributions to the Washington University community. He received his bachelor's degree in 1926 and a master's degree in 1927, both in English. Farrow has sponsored an annual scholarship, and she is establishing two endowments, one in the arts and humanities and the other in the engineering school. She received a bachelor's degree in 1926 and a master's degree in 1927, both in English.
Des Lee endows rotating professorship for community collaboration

Des Lee endows rotating professorship for community collaboration— an outreach effort involving inner-city students for collaborative research. A new professorship will be created to foster collaboration among University scientists and engineers, and to increase the visibility of the arts in the community. Schuchard organized the Town Meeting on the Arts, bringing together members of the arts community to discuss issues of common interest and to generate new ideas for those in the region who are committed to improving the quality and impact of the visual arts in the area.

The partnership comes at an opportune time to meet the next stage of development in the arts community. We are now able to deal with massive amounts of data, both for computation and for storage, allowing researchers to tackle problems previously unapproachable.

—Tony Fitzpatrick

National partnership endeavor to speed computational research

National partnership endeavor to speed computational research— from page 1

We are indebted to Des Lee for this gift, which is an outward manifestation of his lifelong commitment to his city and a testament to his faith in the power of individuals to work together for the common good," Wrighton said. "This will be acoveted honor for the selected professor, and it will serve both the University and the communities it serves.

A formal installation ceremony and reception will be held on the Hilltop in the year 2000.

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