Thought control

Human subjects play real mind games

By Tony Fitzpatrick

For the first time in humans, a team headed by University researchers has placed an electronic grid atop patients' brains to gather motor signals that enable the patients to play a computer game using only the signals from their brains.

The use of a grid atop the brain to record the organ's surface signals is a brain-machine interface technique that uses electrocorticographic (ECoG) activity — data taken directly from the brain surface. It is an alternative to the status quo, used frequently when studying humans, called electroencephalographic activity (EEG) — data taken noninvasively by electrodes on the skull.

The breakthrough is a step toward building biomedical devices that can control artificial limbs, enabling the disabled to move a prosthetic arm or leg just by thinking about it. The study was published in the June 8 issue of the Journal of Neural Engineering and was partially funded by the National Institutes of Health.

Eric C. Leuthardt, M.D., a WUSTL neurosurgeon at Barnes-Jewish Hospital, and Daniel Moran, Ph.D., assistant professor of biomedical engineering in the School of Engineering & Applied Science, performed their research on four adult epilepsy patients who had the grids implanted so that neurologists could find the area in the brain serving as the focus for an epileptic seizure, with hopes of removing it to avoid future seizures. To do this, the patients and their doctors must wait for a seizure.

With approval from the patients and the School of Medicine Institutional Review Board, Leuthardt and Moran connected the patients to a sophisticated computer running a special program known as BC2000 (developed by their collaborators at the Wakeworth Center, a state health laboratory in New York) that involves a video game linked to the ECoG.

This new analysis looked in detail at the outcomes for the 408 African-Americans who did not use drops.

Klein named executive vice chancellor for administration

John E. Klein, J.D., chairman and former president and chief executive officer of Bunge North America Inc., will become executive vice chancellor for administration at the University, according to Chancellor Mark S. Wrighton. The appointment is effective Sept. 1.

"I am delighted that John Klein has agreed to join our top management team as our executive vice chancellor for administration," Wrighton said. "His long and successful tenure as the top corporate officer at Bunge North America brings extraordinary experience and leadership skills to help us continue the upward trajectory of the University."

"Washington University is indeed fortunate to attract him and to benefit from his extensive management skills." "I look forward to joining Washington University and becoming involved in academia after a 28-year business career with Bunge," Klein said. "Since we moved to St. Louis in 1990, I have been most impressed with my contacts with Washington University and am very pleased to have been offered this opportunity to become a part of such a vital institution with such great students, faculty and administrators and such a strong national reputation."

Klein serves as chairman of Bunge North America, a major agri-business company with more than 100 grain-elevator and grain-processing facilities and 6,000 employees in North America. He was president and chief executive officer of Bunge North America from 1985-2003.

Klein had a variety of international assignments with Bunge in Belgium, Holland, the United Kingdom, Spain and Argentina from 1976-1981, before returning to New York City in 1981 and receiving promotions from vice president to senior vice president, to executive vice president, to president and to president and chief executive officer of Bunge North America's corporate headquarters to St. Louis from New York in 1990.

Klein will be the University's chief administrative officer, with responsibility for the University's Central Fiscal Unit, OIT, including finance and administration, administrative information technology, facilities, human resources and other administrative units that serve the University.

Eye drops may prevent glaucoma in African-Americans

By Jim Dryden

Eye drops that reduce elevated pressure inside the eye can delay or prevent the onset of glaucoma in African-Americans at high risk for developing the disease, according to a study in the 2004 Global Olympic Torch Relay.

"It was really unbelievable to think that I had four months to get through it, because I couldn't even walk at the time," said Clemens, who coached the Bears to seven Division III national titles, including two NCAA Division III national titles, six straight from 1991-96. "I realized that I had four months to find out." After some rehab, Clemens stepped onto Bushyhead Track at Francis Field on June 17 to run her leg of the torch relay. St. Louis philanthropist E. Desmond Lee

Frisco Field rededication, torch relay mark end of Sesquicentennial

Friends and family gathered around as they read the letter asking Clemens to be a torchbearer for the June 8 issue of the St. Louis Post-Dispatch and was partially funded by the National Institutes of Health.

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Virgil professorship in Olin School established

By Barbara Rea

In honor of a very special couple, $1.5 million has been raised by friends and colleagues to establish the Geraldine J. and Robert L. Virgil Professorship in Accounting / Management at Olin School of Business. 

As one of the first researchers to study the advantages of semiactive control schemes, recently focusing on control algorithms that effectively use the unique traits of MR dampers to attract international attention, Dyke's work has broadened the scope of his professional expertise and made important contributions toward developing innovative control technology for earthquake-resistant structures. Dyke, a native, earned a bachelor's degree in aerospace and astronautical engineering and an engineering degree from the University of Illinois at Urbana-Champaign in 1991, and a doctorate in civil engineering at the University of Notre Dame in 1996. Dyke became assistant professor in civil engineering in 1997 at Washington University and is now a professor of civil engineering.

Dyke's research efforts have addressed a variety of issues related to "smart" structures, including innovative control technologies for natural hazard mitigation, and structural health monitoring and damage detection. He also supports the School of Engineering & Applied Science. Dyke was elected the Washington University Structural Control and Earthquake Engineering Laboratory (WUSCEL) in 1997. WUSCEL is recognized nationally for contributions in structural control and health monitoring, a result of strong collaborations with both students and colleagues.

As the first researchers of the implementation of magnetotelluric (MT) fluid dampers for vibration control, Dyke's research has made significant contributions toward developing innovative control technology for earthquake-resistant structures. The formation and validation of control algorithms that are effective for detecting unique traits of MR dampers provides Dyke's work with outstanding international attention. Moreover, he has helped to advance the advantages of semicautious control schemes, recently focusing on controlling torsional response.

See Dyke, Page 6

Higher Learning Commission to visit campus in September

By Andy Clendenens

Washington University will undergo a comprehensive evaluation visit Sept. 27-29 by a team representing the Higher Learning Commission of the North Central Association of Colleges and Schools. The commission has accredited the University since 1913; the most recent reaccreditation was in 1994 for an aggregated period in 1994. The Higher Learning Commission is one of six accrediting agencies in the United States that provides institutional accreditation on a regional basis. The commission conducts approximately 1,000 studies of higher education in a 19-state region.

After a lengthy period of review, the University has been engaged in the process of writing the self-study since fall 2003. The self-study will address the requirements and criteria for accreditation.

The team will review the University's ongoing ability to meet the commission's Criteria for Accreditation, including Institutional Requirements. Public is invited to submit comments regarding the University, which must address substantive matters related to the quality of the institution or its programs as described. All written, signed comments must be received by the commission no later than Oct. 27.

Send comments to:
Public Comments on Washington University Higher Learning Commission North Central Association of Colleges and Schools 30 N. LaSalle St., Suite 2400 Chicago, IL 60602

Comments should include the name, address and telephone number of the person making the comment.
Liposuction won't prevent diabetes, heart disease

By Kim Dreyden

Liposuction won't substitute for dieting when it comes to preventing diabetes, heart disease, and other metabolic diseases, according to a new study from the University of Washington School of Medicine.

Researchers conducted a study that compared the effects of liposuction to those of dieting in women with abdominal obesity. The study found that both procedures resulted in similar reductions in abdominal fat, but the health benefits of dieting were greater than those of liposuction.

"Our study underscores the need for the 'old-fashioned' method of eating less and exercising more to treat obesity. The metabolic benefits of weight loss seem to be related to achieving a negative energy balance, consuming fewer calories than you burn, and increasing energy expenditure, rather than simply eliminating fat cells by liposuction." — Klein

BY KIMBERLY LEYDIG

Muglia named chief of pediatric endocrinology

Nationally renowned endocrinologist Dr. Louis Muglia, Ph.D., associate professor of pediatrics, has been named chief of the Division of Pediatric Endocrinology and Metabolism.

"It is a unique opportunity to lead a diverse, high performing team of endocrine nurses and pediatric endocrinologists and to serve the students, residents, and faculty in the clinical and in the research laboratory; and Lou is a creative and imaginative educator," said Ralph C. Schwartz, M.D., the Harriet B. Spoehrer Danforth Professor of Medicine and chief of the Division.

"I am so grateful for the opportunity to serve as division chief together with Drs. Muglia and Caroline McMillan," said Dacey O. Dacey, M.D., the John and Pat Pharao Separani Chair in Neurosurgery and Surgeon in Chief at Barnes-Jewish Hospital, has been named chairman of the neurological board.

Dacey is recognized for his accomplishments, he helped develop a device that uses magnets to guide medical instruments through the brain and performed the first magnetic surgery in humans.

"Magnetic surgery allows surgeons to work through small holes in the skull on regions deep within the brain while avoiding damaging other critical brain structures. Additionally, advanced brain imaging technologies and scientific research have enabled neurosurgeons to work through small holes in the skull on regions deep within the brain while avoiding damaging other critical brain structures.

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Torch
More than 120 runners carried the flame — from Page 1

and Michael R. DeBaun, M.D., associate professor of pediatrics and of biostatistics, also carried the torch through portions of campus.

"It's an emotional for me be- cause you represent so many differ- ent facets of my own life and everyone else's, not only as an American but also as a St. Louis- an, as a Washington University coach and as a mother of six," Clemens said. "I feel like I'm car- rying it for so many different people, as is everyone else. We see only about (120) people, but we are representing thousands and thousands." The torch relay was the final event of a whirlwind two and a half days that saw several Olympians ad- dress the graduating class of various Uni- versity youth sports clinics; a training session for torchbearers; and the reeducation of historic Francis Field.

The historic celebration marked the end of the Uni- versity's yearlong quadcentennial festivities. The events started early June 16 with tennis, basketball, was- ter polo and baseball clinics for hun- dreds of area children.

Three-time Olympian and two-time world cross-country champion Craig Virgin then ad- dressed more than 300 of the clinic participants.

He peppered his address with some of his favorite quotes, including "Whether you think you can, or think you can't, you are probably right," and "Life is about the journey, not the destination." He also showed video high- lights of his career and his Olympic experiences.

"Thank you," he made it clear that in order to reach great heights, everyone — not just Olympic athletes — needs to set goals, and use the six-step pro- cess in combination with commitment, discipline, preparation, persist- ence, focus and execution to reach them.

Following Virgin was lifelong St. Louis resident and former Olympic swimmer Jill Savyer. Savyer, a 1996 gold medalist in synchronized swimming and an eight-time world champion, addressed the torchbearers.

"To me, you start dreaming when you are a child," said Savyer, who started dreaming in his eight-year-old
garage. "It isn't about the Olympics. Any- thing you try to achieve in life, I think it's important at a young age to learn that, and the Olympics is a great stage to teach that.

Field rededication
The rededication of Francis Field, site of the track and field events for the 1904 Olympics, was moved inside because of inclement weather. More than 500 people didn't mind, though, as they sat on the bleachers of the Field House in the Athletic Com- plex and heard comments from Chancellor Mark S. Wrighton; Charlie A. Doody, St. Louis County executive; Jeff Rainford, chief of staff for St. Louis Mayor Francis G. Slay; John Schael, director of athletics at the University; Robert Mar- hurt, chair of the USOC's Na- tional Governing Bodies' Coun- cil; and Virgin and fellow Olym- pian Wendy Williams, who won the platform diving bronze medal in 1988.

"We believe that intercolle- giate athletics at the Division III level are very important... and are in the same tradition of the Olympics," Wrighton said. "We play to win, but we are amateurs. We are an institution that sup- ports the Olympic spirit...We are proud that you are here with us proud to be rededi- cating our field today, we are very, very, very excited," said Wrighton.

"We are really excited to be here with you all of the Olympic movement... and the Olympic flame..." Savyer said. "We are an institution that sup- ports the Olympic spirit...We are proud that you are here with us proud to be rededi- cating our field today, we are very, very, very excited," said Wrighton.

USOC members went over the various do's and don'ts. They stressed the need for cool heads, dropping the torch or passing it off to the next runner too fast.

"The thing that most people are worried about is running too fast," said Ken Merleyhoffer, spokesperson for the USOC advance team that was in St. Louis."People get excited and get their adrenaline going, and they start running too fast. You don't want to outrun the camera trucks." A truck with both still and video photographers followed the runners on their journey. And to help stay calm, the USOC provided several escort runners to run with the actual torchbear- ers to give advice when needed.

At the training sessions, torch- bearers also received their uni- formed, including shorts, shirts, socks, bandanas and hats; had a chance to buy their own souvenirs; and picked up a few goodie bags from various torch relay sponsors. Parking and transportation services pitched in by providing six Washington University shut- tle vans or buses to help all torchbearers get to where they needed to go throughout the city.

"We are really excited to be involved here with all of the global nature of the event and also because of the University's Olympics history," said Louis H. Under- wooder, manager of parking and transportation services. "We appreciate having the opportunity to provide the transportation for this event."

Then, on June 17, came the torch relay's finale. Shortly after 8 p.m., St. Louis philanthropist and 1940 School of Business alum E. Donald Lee carried the torch into Francis Field via the Big Red Boulevard entrance.

Lee ran around the stadium side of the track and handed the torch to Clemens, who was wait- ing under the Francis Field gates. Clemens took the flame back around the stadium side of the track before heading out of the field and sending the flame on its way through University City.

"It's going to be an emotional night and you only get this opportunity to be a part of the torch relay," Savyer said.

University Events

Radiology Events
Radiology • Mediation Training

"University Events." Join a portion of the activities being held June 29-30 at Washington University. Visit the Web for expanded calendars for the Hilltop Campus (calendar.wustl.edu) and the School of Medicine (medical.wustl.edu/ calendarwustl.edu).

Lectures
Friday, June 25
3:30-4:30 p.m. School of Law
Alternative Dispute Resolution Training. Family Mediation Training with Sarah Cox, who is the law and administrative dir, ADR pro- gram at Washington University. (Continues 8 a.m.-5:30 p.m. June 29 for family and juvenile mediation training; 9 a.m.-4:30 p.m. June 30 for family mediation training; $600 $650 for nonprofit; cost for civil mediation training $300 $400 for nonprofit. Anesea±ing Hall C129 362-7440.

Tuesday, June 29

Saturday, July 17
7:45 a.m.-3:30 p.m. Washington U CME Course. ASCO Presentations Review. Center Aud. The College of St. Louis. 100 Vandeventer Ave. To register: 362-0801.

Friday, July 9
7:15 a.m.-4:38 p.m. School of Medicine
Central Pain Course. "Building the Road to Independence: A Novel Approach to Central Pain for Patients and Care-

Tori Clemens carries the torch on Bushtead Track on Francis Field as part of her leg of the Global Torch Relay.

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employees recognized for years of service to University

In a ceremony in Edison Theatre on Staff Day May 24, 2004, individuals who serve the University for several years were recognized.

The following people were recognized for 10 years of service:

The following people were recognized for 15 years of service:
- Patricia Agnew, Joseph Angelt, Diane Anthony, Casol Antonicello, Matthew Armstrong, Virginia Aurelian, Barbara Bequette, Georgia Binnington, Rita Boose, Sandra Brown, Rose Brouwer.

The following people were recognized for 20 years of service:

The following people were recognized for 25 years of service:

The following people were recognized for 30 years of service:
- Sandra Blacklock, Myrna Harbison, David Kliper, Jeff Lang, John Schae, Willie Scott, David Straight, Rodney Wermann.

The following people were recognized for 35 years of service:

The following people were recognized for 40 years of service:
- David Blasingame, Denise Doner, William Gaene, Glen Horton, Debra Jones.

The following people were recognized for 45 years of service:

The following people were recognized for 50 years of service:
Brain

The next step is to test people using 2-D games — from Page 1

grid. They then asked the patients to do distractor memory and speech tasks, moving their hands vari-
ous ways to perform these moves. Members of the team could see from the data which parts of the brain
achieved between 74 and 100 percent accuracy, with one
patient hitting 33 of 33 targets correctly in a row.

The EEG method takes much less time to learn than the
traditional EGG.

Electrodes were active on the surface of the brain. They
said, “After a brief training ses-
tion, the patients could control it with their brains.

The next step is to test people using 2-D EEG, whereas our
approach was done basically in
a lab environment.”

The two note that ECoG has
to actually perform them
presented a similar result. EEG-based systems are equivalent
to those in which the patient

The next step is to test
people using 2-D games.

研究 reviewed 1,636 patients with glaucoma, and found that among patients in
the course of the study, only 4.4 percent of the other
patients did not control move-
ments in the 2-D game with their
brains as the patients had with
the 1-D game.

The researchers next want to
to see if they can control the movements with their brain.

They also will implant the
EEG grids into mice, so they

Words by mouth.

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Bardach named associate dean, ExecEdge director at St. Louis University

Kenneth C. Bardach has been named associate dean and director of ExecEdge Corporation, the St. Louis University School of Business, announced Stuart J. Greenbaum, Ph.D., dean and Bank of America Professor of Business Administration in the School of Business.

Bardach brings more than 30 years of business experience and corporate leadership experience to his position, having twice served in executive education director positions at Northwestern University's Kellogg Graduate School of Management, and having directed corporate management education and development programs for numerous organizations.

"I have had the privilege of working with Ken Bardach off and on for more than 20 years," Greenbaum said. "I know he is a consummate professional and will be a leader in the world of executive education and a man of uncom-}

Klein Will become a member of the University Council — from Page 1

The University is projecting a budget shortfall of approximately $4 billion. In the past year, the university has added five vice chancellors Michael R. Cannon, J.D., Edward S. Maccabio, Ph.D., and Larry J. Shapiro, M.D., in working with Wrighton as the University's leadership committee. Klein will also become a member of the University Council.

In becoming executive vice chancellor for administration, Klein will succeed Richard A. Roloff, 1982-1991, as the University's chief financial officer. Roloff will become executive vice chancellor for finance and development, a position he will hold until September 1, 1992, to facilitate the transition of the faculty practice plan, Ester-}

Leading the way

Chancellor Mark S. Wrighton (left) is congratulated by Ed Rust, chairman and chief executive officer of State Farm Insurance Co., upon Wrighton's election to the post of chairman of the Business Education Forum. Wrighton was vice chairman and president of the forum last year. "I am grateful for his commitment to the advancement of the University and his leadership in helping students improve their language skills, said Friday, April 3, 2004, in Ladue, Mo. She was 94.

In addition to his gifts to the School of Medicine, Schechter established the Miriam Schechter and Kay Schechter endowed scholarships in Arts & Sciences in honor of his two surviving daughters. Schechter received the Second Century Award from the School of Medicine in September 2002 in recognition of his significant role as both a member of the University's faculty and a contributor to the medical school.

In 2002, Schechter married Norma Rotham. Contributions may be made in Schechter's memory for medical student scholarships to Washington University School of Medicine, Campus Box 8590, 4444 Forest Park Ave., St. Louis, Mo. 63108.

Alternately, contributions may be sent to the Tribute Fund at the Missouri Botanical Garden (P.O. Box 299, St. Louis, Mo. 63166).
Nickerson has knack for success
Olin associate professor solves problems in classrooms, buildings and parking lots

"I have yet to meet someone as well-organized and efficient at getting things done."

But Nickerson saves the best of his makeover talents for teaching awards since he came to the University eight years ago. In January, he accepted the 2003 Governor's Award for Excellence in Teaching from the Missouri Department of Higher Education.

Nickerson has researched several companies in unrelated industries such as trucking, information technology, and, most recently, the pharmaceutical industry. As he gets to know a few of individual students, he figures out what distinguishes each company and student teams to match the company's activities with the appropriate organizational choices.

"Just about all the papers that I've written tie into organization choice: teams or no teams, centralization or decentralization. I'm not just the organization choice that is important, but also how that choice translates into performance."

Unlike his colleagues in more specialized business fields, Nickerson, an expert in organization and strategy, looks at things holistically. His wife, Cici, a librarian who has worked in the business school's Klopow Library, says her husband "can see the forest, as well as the trees."

Nickerson explains, "I care about finance; I care about economics; I care about marketing; I care about operations; I care about organizational behavior. We're integrating all of these different functional specialties into one giant picture." But he insists there are no universal answers in business. "It's about matching, not about one mode of organization always being superior to another."

His two-part study of the pharmaceutical industry, being conducted with Georgetown's Macher, examines company operations as well as Food and Drug Administration (FDA) regulations, which will soon be revamped for the first time in 25 years with input from the study. "There's no one that we are aware of today studying (pharmaceutical manufacturing) from a management and organization perspective," Nickerson says. "There are huge opportunities to understand production, find ways to improve it from an organizational perspective, and to help the FDA understand how to change their regulations to not only assure safety, but then to improve on these other measures of productivity."

Nickerson says that changes in regulation and organization could lower drug prices by as much as 13 percent to 20 percent. Significant results like these lead Olin School of Business Dean Stuart E. Greenbaum, Ph.D., to say, "Jackson Nickerson is a gifted teacher and scholar with a keen eye for policy impact. He is also a totally engaged citizen of our community who argues his views with reason and passion." Nickerson suggests that the University has made organizational choices that foster community. "I think WashU is a great place," Nickerson says. "It's a collegial place. It has a great atmosphere and culture is very much about relationships."

At least in the business school, Nickerson thinks we have a star system, which is very good. A star system tends to lead to these problems of envy and animosity," which Nickerson also studies. Assistant Professor Hannah Owen, who has co-authored several papers with Nickerson, says that his friend's ongoing nature helps him make the most of the University's open culture. "He is a great collaborator," Owen says.

"If he doesn't have a full range of necessary skills to analyze complex problems, then he will talk to people with the needed skills, make them excited about the idea, and then start working with them," Owen says. "He is always excited about something." Envy, Nickerson argues, negatively impacts the collaboration and productivity that he values so highly. "Both on a personal level and organizationally. He notes that a "highly differential reward system" like a star system, is one of the things that can jeopardize collaboration and lead to envy and undermine productivity.

"We study how envy causes management to adopt certain organization structures, incentives and internal procedures in order to provide a certain degree of egalitarian environment to encourage 'sunshine relationships and communicate,'” Nickerson explains. To ameliorate envy and solve complex problems, Nickerson says, "you want people to work as a group, which usually requires that people with complementary skills and talents work in close proximity."

This is precisely the setup he sees on his corridor in Simon Hall. One of the tidy "Nickerson Rules" he has created states: You tend to interact with those people within plus or minus 20 feet of your door. If you have people from other areas, other disciplines, within 20 feet of your door, you get a great exchange and interaction where you identify interdisciplinarity issues.

While envy is not much of a problem in Nickerson's professional life, it admits that the "biggest issue" with his children, 8-year-old Will and 5-year-old Genevieve, is "Having the kids on the same bike every morning."

Jackson Nickerson, Ph.D., and Lyda Bigelow, Ph.D., assistant professor of organization and strategy, discuss their classes. Georgetown University colleague Jeffrey Macher says of Nickerson, "I have yet to meet someone as well-organized and efficient at getting things done."