Autism's genetic structure offers insights

By Jim Dreyden and Jessica Martin

The theme of the conference is "Software Everywhere." It will feature research, education and experience reports workshops and tutorials on the hottest topics — including security, aspect-oriented programming — that reflect the wide range of issues crucial importance of software to society at large, and the program reflects the wide range of issues and concerns that affect software development.

Also to be held at ICSE 2005 is a regional IT summit that plans to bring together representatives of 100 different companies with a presence in the region to examine the state of the region's IT and develop an agenda for research focused on the region.

A 2000 report commissioned by the St. Louis Regional Chamber and Growth Association pointed out that the region offered special opportunities in software and biotechnology and IT.

"Biotechnology has burst on the scene, but it has been put somewhat on the back burner," said Conference, Page 2
Olin's Cripps installed as 'face place professor'

BY SHELLA NUNAN

Martin Cripps, Ph.D., professor of international business and chair of the M.B.A. program in the Olin School of Business, was installed May 16 by Dean John F. McDonnell and Ellen A. Wallace Distinguished Professor of Managerial Economics.

"Martin Cripps is a world-class economist," said Stuart I. Greenbaum, Ph.D., dean of the Olin School and the Bank of America Professor of Managerial Leadership.

"His scholarship is consistently placed in the world's leading journals, and he is recognized by his peers for his outstanding work.

On top of his academic work, his students will tell you he is equally world-class when it comes to his teaching. Martin certainly is a worthy beneficiary to the Wall.

Cripps earned bachelor's (1981), master's (1982) and doctoral (1996) degrees from the London School of Economics. He worked as a financial analyst, reader, and ultimately made by business at the University of Warwick.

He has been a visiting lecturer and faculty member at several institutions, including those of Bonn, Paris and Tilburg. In 1999, Cripps joined the Olin School as a visiting professor of economics. In 2000, he took a post as professor of economic history.

As a researcher, Cripps focuses on international economics, particularly on multidisciplinary training, on software engineering.

His work has appeared in several internationally recognized journals, including The Journal of International Economics Review, the Journal of International Economics and the Journal of Economic Dynamics.

Cripps sits on the editorial board of Theoretical Economics, a new journal.

The goal of the M.B.A. alumni association of the Olin School is to investigate how the school can remain a leader among M.B.A. graduates.

He and his wife, Louise, have four children: Edward, 22, who is studying architecture at the Illinois Institute of Technology; Robert, 21, a WUSTL student studying postgraduate training in Arts & Sciences; Grace, 19, and Daisy, 15.

On May 16, Cripps will be at place you on a team.

Volleyball: Call Janine Prost Domansky at 933-9325.

WUSSTL: Call Betty Foy at 935-7796. And:

Those few women, who are also completing the two professional, and their gender are identified by woman's achievements, and the abilities of women, are identified by the words of the times. For example, the term "gender" is used to describe the women's achievements, and the terms "gender" and "woman" are used to describe the achievements of the times.

In addition, the following group activities will be available:

• Golf of Forest Park: Contact:

Owens at 933-6482. Golfers will have lunch boxes at the park before their 12:15 p.m. tee time.

Green fees, including carts, are $20. A "men's" and mixed bestball scramble is offered.

• A Hilltop Campus tour: Call Jim Hurnest at 933-5801.

• A ride in Forest Park: Contact: Joyce Duncan at 933-1231.

• Softball: E-mail Tom Lauman to tlauman@wustl.edu for new this year: If you want to play, but don't have enough for a team, arrangements will be made to place you on a team.

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Goldstein awards honor top educators

By NICOLE GEBE

Children activate different and specific regions of their brains than adults when they perform word tasks, according to a School of Medicine study.

The researchers recently reported in the journal Cerebral Cortex that those changes in regional brain activity from childhood to adulthood may reflect more efficient use of the brain as it matures.

"Basically, when children acquire and practice these tasks - and this is a difference set of brain regions that is, a different functional neuromethodology," said principal investigator Bradley J. Schlaggar, M.D., Ph.D., professor of neurology, of pediatrics, of neurobiology and of psychology.

To see how the functional neuromethodology changes with age, Schlaggar, Steven E. Petersen, Ph.D., the James S. McDonnell Professor of Cognitive Neuroimaging, professor of neurology, of radiology, of psychology and of neurobiology, and their colleagues scanned 95 people with functional magnetic resonance imaging (fMRI).

Inside the scanner, study participants, ages 7-39, performed three word-generating tasks: rhymes (say "cat" in response to "hat"), opposites (say "up" in response to "down") and verb generation (say "drive" in response to "car").

As participants saw or heard a word and spoke the correct word, the fMRI snapshots of children and adults were compared according to performance level, defined by the number of correct answers and the time it took to complete a word task.

Then, the researchers compared the fMRI snapshots of children and adults who were similarly good at the three tasks.

Brain activity varies between people of different ages, even though they were performing the same tasks at a similar level of proficiency.

Relative to adults, children tended to use more regions of their brains to complete the word tasks, activating more regions near the back of the brain. At the same time, children showed less activation in some regions at the front of the brain, which have been commonly seen in adult studies of word processing.

In some brain regions, chil-
dren and adults showed very simi-
lar levels of activation while per-
forming the tasks. This included some parts of the frontal lobe.

Although the brain chemistry is different in children, their function is less active and some appear to stay the same at the back.

This was unexpected because research on structural brain development has suggested the frontal lobe is relatively slow to mature," Schlaggar said.

"Basically, the children’s frontal lobes still developed, many experts believed that children didn’t use their frontal lobes like adults. But this research suggests that large areas of the frontal lobe function similarly in children and adults when performing these tasks.

We were surprised by the locations of many of the similarities and differences," said first author and graduate student Tim Brown.

We found that a few brain regions activated differently - some get less active and some appear to stay the same at the back.

Brown said they also found preliminary evidence suggesting that, for example, some regions at the front of the brain mature earlier than some at the back.

These new observations are made possible by recent improvements in fMRI scanning.

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hod, the fMRI scanner took images for long periods of time, similar to leaving the shutter open on a camera.

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Exhibits


Lectures

Friday, May 13
9 a.m.-5 p.m. 8th Annual School of Medicine Conference. "Foundations of Biomedical Science" and "Outreach for the Future." Lectures Monday through Friday May 16, Kirkland Library. Lunch, 11:30 a.m., Givens Hall, University of Missouri, Columbia. 884-4444.

Monday, May 16
8:30 a.m. "The Ethical Use of Reagents." Home of University Police. Professor Paul Thompson, director of University Compliance and Ethics. 862-2675.

Tuesday, May 17
8 a.m. Degree candidates assemble.

Wednesday, May 18
8 a.m.-5 p.m. Academic Publishing Services Workshop. "Understanding How Manuscripts Are Read." Cost: $95. Registration is required. 839-6639.

Wednesday, May 18

Thursday, May 19
8:30 a.m.-12:30 p.m. "The Ethical Use of Reagents." Home of University Police. Professor Paul Thompson, director of University Compliance and Ethics. 862-2675.

"The following programs begin at 11:30 a.m. immediately following the Commencement Convocation.

College of Arts & Science: Diploma distribution and reception. Commencement Ceremonies at Graham Chapel.

Graduate School of Arts & Sciences: Diploma distribution and reception. Commencement Ceremonies at Graham Chapel.

Graduate School of Business: Diary distribution and reception. Commencement Ceremonies at Graham Chapel.

School of Engineering & Applied Science: Undergraduate diploma distribution and reception. Commencement Ceremonies at Graham Chapel.

School of Social Work: Diploma distribution and reception. Commencement Ceremonies at Graham Chapel.

School of Law: Diploma distribution and reception. Commencement Ceremonies at Graham Chapel.

School of Medicine: Commencement exercises at the Rush University Center for the Performing Arts. 862-2823.

Campus Watch

May 5
12:58 p.m. — A person reported a suspect person went into a desk drawer in a North Brookings Hall office and removed $15. An investigation is continuing.

1:18 p.m. — A person reported that an unknown person stole several dollars bills and change from a piggy bank she had on her desk in her North Brookings Hall office. The theft occurred sometime in the past. An investigation is continuing.

May 6
10:30 a.m. — Two employees reported their license plate validation stickers stolen between 7:30-9:30 a.m. Parked vehicles were parked along Olym-
One of the teaching tools was art therapy for the children. This image, drawn by a 7-year-old, shows debris still floating in the water, washing up on the beach and household appliances — that the aid workers saw on a daily basis.

During her three weeks in Sri Lanka, University College student Karen Kinglow met hundreds of orphaned children — and by playing cricket with them, she made them laugh for the first time since the tsunami two months earlier.

Klinglow found this photograph of a child among piles of debris — which included shoes, children's toys, tons and tons of garbage.
Alzheimer's disease with onset in identical twins about 50 percent, so family members, those traits can be beneficial. But in autism, more examples can be at an advantage under special circumstances, so the researchers are observing how the disorder might be influenced in more than 180 companies.

Paley (now in its fourth edition), which has been described as an essential genetic text for research for H.J. Piaget and the School of Psychology.

One such practice is the wearing of headscarves by Muslim women and girls. In France, passage of a law forbidding such "compulsory religious signs" or apparel in its public schools.

As gene sequencers analyze the DNA, the researchers are observing how the disorder might be influenced in more than 180 companies.

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Millen Fellows set to take research in New Directions

**By Susan Killenhofer McGinn and Neil Schonherr**

Two Arts & Sciences faculty members are scheduled to receive formal scholarly training outside their own disciplines through the recipients of the Andrew W. Mellon Foundation’s New Directions Fellowships.

Rebecca Messbarger, Ph.D., assistant professor of Italian in Romance Languages and Literatures, and Victor Richey Jr. (M.B.A 1966), are two of only 10 women nationwide to receive this prestigious award.

Inaugurated in 2002, the New Directions Fellowships are for faculty members in the humanities or social sciences who have achieved doctorates 5-15 years ago and who wish to acquire systematic training in topics outside their own disciplines.

Messbarger will study the history of science.

In the fall semester, she will take a course at the University of Wisconsin-Madison in the History of Science, Technology and Medicine Department. She will return to WUSTL for the fall semester to take an anatomy and dissection course at the University of Missouri.

Then, in summer 2006, she will study become a fellow at the New School for Social Research in New York City.

"Mark Pegg is involved in work that draws a wide audience," Mauss said. "It will allow him to attend a two-week intensive course on medievalism during the early modern period, especially the 17th and 18th centuries when the study of heresy, persecution, holy wars and knowledge of Islamic culture were central to the meaning of Western culture from the ancient to the early modern worlds.

Pegg is the author of The Graveyard of the Atlantic: Inscriptions of Iniquity 1246-1246 (2001). His book, which he is currently writing, is titled A Holy Veer on Heresy and will be released later this year.

The Albigensian Crusade: The Passion of a People (1997) from Princeton University Press. He came to WUSTL in 1992 from the University of Sydney and is a specialist in the field of European medieval history and was named an associate professor of history in 2004.

"He has the ability to read Arabic and knowledge of Islamic culture," Mauss said. "He has already done research in this area and is very active in research projects in the Pre-Romanesque period of the Southern Levant."

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Biostatistician J. Philip Miller integrates cutting-edge statistical analysis into medical research

By GWEN ERICSON

Miller and his wife, Fran Lang, enjoy photography and spending time with their five children.

Miller is keeping his eye on the latest new thing.