

## Device Lends a Hand to Paralyzed People

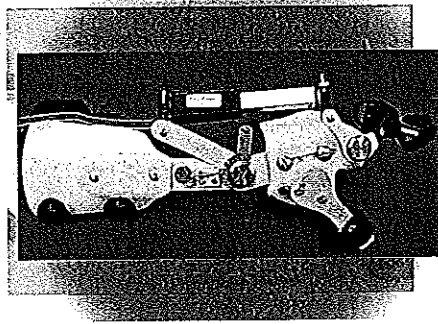
A group of undergraduate engineering students created a device that should help paralyzed people regain control over hand movements.

The device, called the IpsiHand, communicates brain signals to a hand orthosis. The signals are channeled through a computer and allow for opening and closing the hand.

"It encourages [paralyzed patients] to try to use their hand, so it should help with therapy," says project lead Sam Fok, Engineering Class of '11. "Especially when you've lost all motor control of your hand because of damage, you can get frustrated by trying to move your hand. The IpsiHand should help."

The device earned the students a ranking among the top-10 finalists in the Rehabilitation Engineering and Assistive Technology Society of North America Student Design Contest.

The IpsiHand is based on the work of Eric Leuthardt, assistant professor of



*The IpsiHand device will help paralyzed people regain control over hand movements.*

neurological surgery, director of the Center for Innovation in Neurosciences and Technology, and the faculty sponsor for the project.

In 2008, Leuthardt discovered that there were exceptions to the classical understanding that one side of the brain is responsible for the movement of limbs on the opposite side of the body.

"The brain also encodes or does some motor planning for same-side-of-the-limb movements," he says. "So if you've lost the ability to execute your motor function, the motor plan is still there."

Over the next few years, Leuthardt hopes that the methods used in the IpsiHand can also be used to create an implant that gives paralyzed people high levels of control over movement.

## Trial, Moot Court Teams Excel in Competitions

Washington University law students had a highly successful year in lawyering skills competitions, including winning the Attorney General's Cup and the McGee National Civil Rights Moot Court Competition. They took high



*Missouri Attorney General Chris Koster (right) congratulates the Trial Team for garnering first and second place in the Attorney General's Cup.*

honors in several regional competitions and advanced to the national rounds. Students also won numerous awards for their briefs and oral advocacy.

In the Attorney General's Cup, WUSTL teams took first and second place. Jason Julien was selected Best Advocate Plaintiff, and John Drake was named Best Advocate Defense.

Additionally, Trial Team members won the Regional Competition of the National Trial Competition and competed nationally. The WUSTL team also advanced to the semifinals in the National Civil Trial Competition and in the ABA Labor and Employment Law Competition.

National Moot Court Team members won the Regionals of the ABA National Appellate Advocacy Competition and were quarterfinalists at the Nationals. In the Regionals, WUSTL students won some of the Best Brief awards. Additionally, Moot Court Team members were named champions of the McGee National Civil Rights Moot Court Competition.

## ATHLETICS AT A GLANCE

**3** Final ranking of the Bears in the U.S. Sports Academy Directors' Cup for 2010-11

**198-74-8** Bears combined sports record for 2010-11

**11** Number of team NCAA appearances in 2010-11 (includes volleyball, men's and women's cross country, men's and women's soccer, women's basketball, men's and women's swimming & diving, women's golf, and men's and women's track & field)

**4** Number of 2010-11 team UAA Championships (includes men's and women's cross country, men's indoor track & field, and men's outdoor track & field)



*Allyson Chee, Engineering Class of '14, helped the Bears finish eighth at the 2011 NCAA Division III Women's Golf Championship.*