

# ECE Weekly

The Ohio State University Department of Electrical and Computer Engineering

## Ohio State: Midwestern Hub of Next-Gen Magnetic Resonance Research



A team of physicists and engineers at The Ohio State University won a **\$1.071 million** award from the National Science Foundation's Major Research Instrumentation program (NSF-MRI) to

help advance the study of magnetic resonance technology. Department of Physics Professor **Fengyuan Yang** is the Principal Investigator (PI) on the project and his team includes co-investigators **P. Chris Hammel**, professor of Physics and Electrical and Computer Engineering (ECE); **John Volakis**, ECE professor; **Joseph Heremans**, professor of Mechanical and Aerospace Engineering and Physics; **Rolando Valdes Aguilar**, assistant

professor of Physics; **Zeke Johnston-Halperin**, associate professor of Physics; and **Denis Pelekhov**, director of the NanoSystems Laboratory. Full story: <http://go.osu.edu/mr>

### Lee honored with alumni award

**William C.Y. Lee**, a pioneer in the advancement of cell phone technology, is the recipient of the Ohio State Alumni Association's **Archie M. Griffin Professional Achievement Award**. The award will be presented during the annual ceremony on October 7, 2016 at the Ohio Union. Story: <http://go.osu.edu/wl>



## Gupta earns NSF Cyber-Security Award

ECE Assistant Professor **Abhishek Gupta** just won a \$174,994 National Science Foundation (NSF) grant to help protect internet-connected control systems - such as power grids, cars, and medical devices - against cyber-attacks. At his office desk computer in Dreese Labs, Gupta plays a short You Tube video showing what can happen if a hacker takes control over of a power plant. In short, the whole facility is soon enveloped by a cloud of black smoke and shuts down.

"So, it can happen," Gupta said. "Anyone with internet access can hack in."

Full story: <http://go.osu.edu/gupta-cyber>



## ECE Undergrads: Q & A

Last week's Information Seminar on ECE Undergraduate Research gave students answers to career and research questions. Providing insight were ECE Associate Professor **Bradley Clymer**, professor **Eylem Ekici**, associate professor **Ayman Fayed**, and alumni **David Bradway** via Skype.

Full story and pics:

<http://go.osu.edu/under-research>

## ECE in the Media

### The Toledo Blade

talks drone and Lake Erie algae research with ECE professor Wu Lu in this new article:

<http://go.osu.edu/w-lu>



**Millennium Technology Prize** focuses on energy and the environment with this article

exploring how to prevent increased electronic waste as the Internet of Things blossoms. ECE professor **Paul Berger** talks, via Finland's Tampere University of Technology.

Article: <http://go.osu.edu/berger-e>



## In mailboxes soon...

The 2016 **Bits & Sparks** ECE alumni magazine is on its way to our former graduates and ECE chairs across the US. It's 40 pages of new research, faculty/alumni stories, plus photography, video links, class pictures and more.