ECE Weekly

Ed. 8.10.16

The Ohio State University Department of Electrical and Computer Engineering

JDRF Awards Research Funding for Wireless Treatment of Diabetes

Diabetic patients may someday have less to worry about, thanks to new implantable technology being developed at The Ohio State University.

The ultimate goal of the research is to help diabetics lead a normal life again, by delivering controlled insulin microinjection treatments to patients in real time.

Ohio State electrical and computer engineering professor **Liang Guo** received a $250,000 two-year grant from JDRF to help develop his proposal, "Wireless Implantable Electroactive Pump for Continuous Intraperitoneal Insulin Infusion."

More: **http://go.osu.edu/guo**

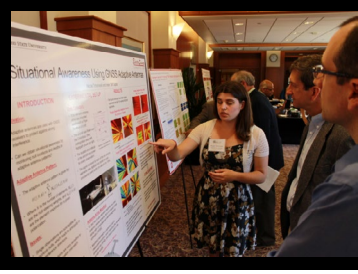
CERF 2016 Event Showcases New Research Activities

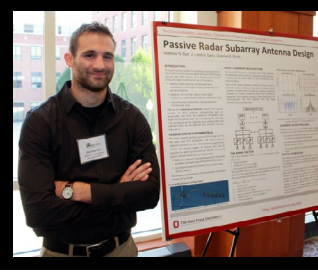
With over 40 ongoing scientific projects taking place at The Ohio State University ElectroScience Lab (ESL), Aug. 2 was dedicated exclusively toward highlighting those jointly involved in the Consortium on Electromagnetics and Radio Frequencies (CERF). The daylong 2016 CERF annual conference hosted by ESL featured an array of scientific speakers, detailing research in the realms of radar, navigation and sensing, electromagnetics, radio frequency, circuits, optics, antenna design and more.

Featured speakers included ESL faculty and researchers, such as **John Volakis, Andrew O'Brien, Graeme Smith, Fernando Teixeira, Bob Burkholder, Ron Reano, Shane Smith, Teh-Hong Lee and Asimina Kiourti.**

Learn which students won the poster competition at the link: **http://go.osu.edu/CERF-16**

Photos: **http://go.osu.edu/CERF-16-pics**



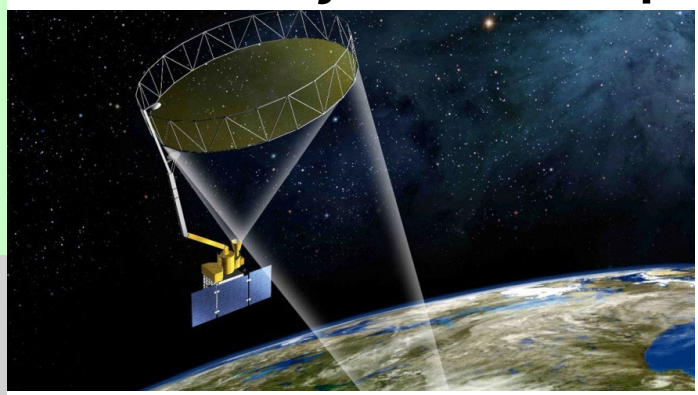


ECE Poster Printing

ECE Undergrad or Grad students: Looking to get a research paper printed for an upcoming conference? Access our own in-house ECE printing station. Staff members Ray Feast and Ryan Horns can help. Learn more at the link: **http://go.osu.edu/ece-posters**

Help us congratulate ECE staff member **Supaphen Niroula**, who won Advisor of the Month for her exemplary role serving ECE Undergraduate students.

SMAP first-year results published



With research reflecting over a year collecting data from space, Ohio State ECE contributions to a NASA climate sensing satellite were published.

On Jan. 31, 2015 the Soil Moisture Active and Passive (SMAP) satellite launched, with the goal of producing global maps of soil moisture. The data is used to help improve the understanding of Earth's water and carbon cycles, as well as the ability to manage water resources worldwide.

Students and university faculty involved in the project published an update on the mission in the recent IEEEXplore Transactions on Geoscience and Remote Sensing publication, titled "SMAP L-band Microwave Radiometer: RFI Mitigation Prelaunch Analysis and First Year on-Orbit Observations."

Link: **http://go.osu.edu/SMAP-update**