

ECE Weekly

The Ohio State University | Department of Electrical & Computer Engineering



'Game Changer' in hurricane prediction

Scientists from The Ohio State University helped launch NASA's \$150 million Cyclone Global Navigation Satellite System (CYGNSS) on Dec. 15, 2016, and it's working. Learn about the project and its ability to capture a deeper understanding of how and why hurricanes develop and intensify: <http://go.osu.edu/cygnss-npr>

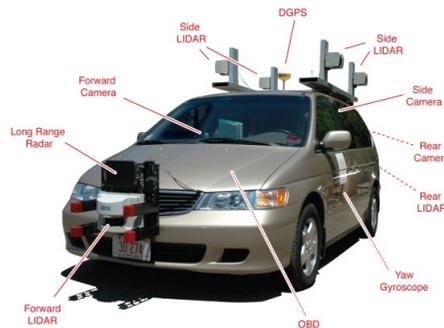
Renown ElectroScience Lab turns 75

Celebrating its 75th anniversary in 2017, the **ElectroScience Laboratory (ESL)** at Ohio State has built an international reputation for historic achievements in science. ESL is a major center-of-excellence in Ohio State's College of Engineering (COE) and is one of the largest radio frequency and optics research laboratories in the world. Not satisfied with resting on past accomplishments, ESL remains committed to finding next-generation solutions to current engineering obstacles. Over the next months, we will highlight new research coming out of the labs leading up to the official 75th Anniversary celebration event at ESL on Oct. 6. More: <http://go.osu.edu/ESL75>



From rocket science to roads, Ohio State engineers find new traffic safety solutions

When four engineers come together it's safe to assume problems are solved. Inspired by rocket science, professors **Benjamin Coifman**, **Keith Redmill**, **Rabi Mishalani** and **Mark McCord** at Ohio State decided to collect precise data to help determine more efficient traffic patterns, which led to a new solution on municipal roads. Their collective work was recently published in the Transportation Research Board Journal. Coifman, an ECE professor, explained their collective work attaching sensors to municipal vehicles. More: <http://go.osu.edu/muni-ece>



ECE Alumni Spotlight: David Stack

When the internet was rising up in the mid-90s, ECE alumnus **David Stack** decided to start selling his large collection of albums online. It blossomed into a full business, MusicStack, which has become an international database to sell unwanted music or find unknown records. Learn more about Stack's success and how he spends his free time as an entrepreneur: <http://go.osu.edu/musicstack>



Ertin in Biomedical Computation Review

Learn more about how ECE Professor **Emre Ertin** gained recognition for his work in mobile health by teaming up with Dr. **William Abraham**, cardiologist at Ohio State, to create a device called EasySense.

Learn more here: <http://go.osu.edu/ertin-cr>

Ohio State photonics research gets a new \$1 million boost

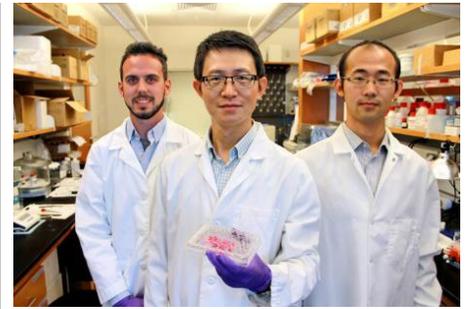
DISCOVERY THEMES

Energy and the Environment
Materials and Manufacturing
for Sustainability

The Ohio State University got a major boost in photonics research with the addition of more than \$1 million in new laboratory equipment this fall. Ohio State Electrical and Computer Engineering (ECE) Professor and George R. Smith Chair, **Sanjay Krishna**, said the new Antimonide Molecular Beam Epitaxy Reactor (AMBER) equipment will help position Ohio State as the only university in the country with such specific photonics research and manufacturing capabilities.

Find the full story online: <http://go.osu.edu/amber-imr>

Watch a short video of Krishna explaining the research and its ties to Ohio State's larger Discovery Themes initiative: <https://youtu.be/Sc7WtMKUvnM>



ECE MeetUp Series: Neural Implant Tech

The ECE Department is fortunate to have two professors at the forefront of implantable technology in solving today's biomedical needs. Assistant Professor **Liang Guo** recently was awarded the prestigious DARPA Young Faculty Award for his proposal, "Implantable, Programmable Integrated Cellular Circuits." Assistant Professor **Asimina Kiourti** was recently awarded a National Science Foundation grant for her research on "Fully-Passive and Wireless Multichannel Neuro-Recording."

Details:

Wednesday, September 27, 2017
6:00 PM to 8:00 PM
Dreese Lab, Room 260,

RSVP Now:

<http://go.osu.edu/meetup-implant>

ECE Graduate Video Series: PhD student Chengcheng Yao



Welcome incoming Graduate Students in the Department of Electrical and Computer Engineering at The Ohio State University.

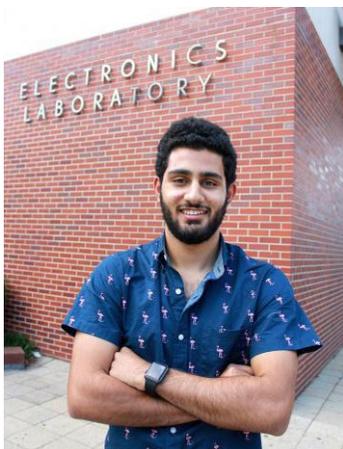
Are you #New2OSU, perhaps from overseas or a small town, and arriving at Ohio State for the next chapter of your life? We're here for you. Our @OhioStateECE graduate students sat down to offer you advice on the

years ahead in our program. In our first video in the series, we talk to PhD student **Chengcheng Yao** who originally hails from China. He discusses why the transition was so smooth, with the help and support of his fellow classmates.

Watch the full video here: <http://go.osu.edu/new2osu-yao>

Find Past Issues of ECE Weekly:

<https://ece.osu.edu/ece-weekly-newsletter>



Student Spotlight: **Shivam Tickoo**

Undergraduate Buckeye takes on his fourth-year as an ECE student with a minor in business.

Read about why **Shivam Tickoo** chose engineer-

ing, his research opportunities, and post-graduation dreams: More: <http://go.osu.edu/tickoo>

ESL new 'Quiet Room'

After a student attacker event near Watts Hall on campus in Nov. 2016, The Electro-Science Laboratory became motivated to create a new "Quiet Room," to support diversity and well-being. Learn more about how the space is

being used and appreciated:

More:

<http://go.osu.edu/quietroom>

