

# ECE Weekly

The Ohio State University | Department of Electrical & Computer Engineering



## GUO wins NSF CAREER Award to Boost Biocircuit Engineering

**Dr. Liang Guo** has some interesting lab mates, not typically associated with electrical and computer engineers (ECE) at The Ohio State University. Sea slugs move slowly around inside aquariums. Microscopes are hooked up to computers. Petri dishes hold specimens behind glass. Guo is at the forefront of what he calls *biocircuit engineering*. The research recently earned him the coveted National Science Foundation (NSF) Faculty Early Career Development (CAREER) Award.

Learn more about his work:  
<http://go.osu.edu/guocareer>



## Meet the ECE Spring 2018 graduating classes

Some are headed to further their academic career, while others are entering into the industry workforce worldwide.

At the end of every semester, the graduates of The Ohio State University Department of Electrical and Computer Engineering gather in the Garden of Constants for their class photo and video.

Meet the Spring 2018 Graduating Classes and watch a short video to learn where some of them are headed next. Video link:

<http://go.osu.edu/sp18class>



## Gupta wins 2017 George Sinclair Award

The highest honor bestowed on ElectroScience Laboratory faculty at The Ohio State University was presented to ECE Faculty Emeritus **Inder "Jiti" Gupta** for his respected work as both mentor and scientist.

The George Sinclair Award recognizes faculty technical contributions and service to ESL. It honors its namesake, George Sinclair, who exhibited a career of exemplary standards in his own technical research and administrative leadership at the Antenna Laboratory (later to become ESL), which he founded in 1942. Gupta was recognized for his "research excellence, mentoring of researchers and students, as well as his leadership in establishing the international-recognized program in Global Navigation Satellite Systems (GNSS), and spearheading the formation of the ESL Consortium on EM and Radio Frequencies (CERF) and the Consortium of Ohio Universities on navigation and Timekeeping (COUNT)."

Learn more: <http://go.osu.edu/gupta18>



# IEEE

GRADUATE STUDENT BODY  
AT THE OHIO STATE UNIVERSITY

## IEEE GSB H-1B Visa Sessions

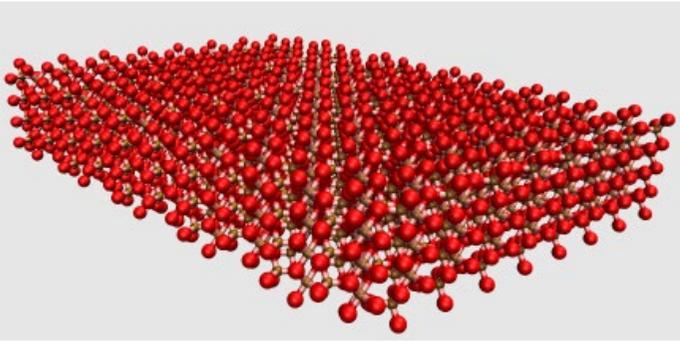
With over 6,000 international students at The Ohio State University, the issue of immigration reform remains a hot topic on campus.

Members of the **IEEE Graduate Student Body**, a professional organization devoted to the electrical engineering industry, decided to help keep their foreign classmates up to date on current information by holding an annual visa information session. It's an effort gaining a larger audience each passing year.

Learn more about what they offer and how to get involved:

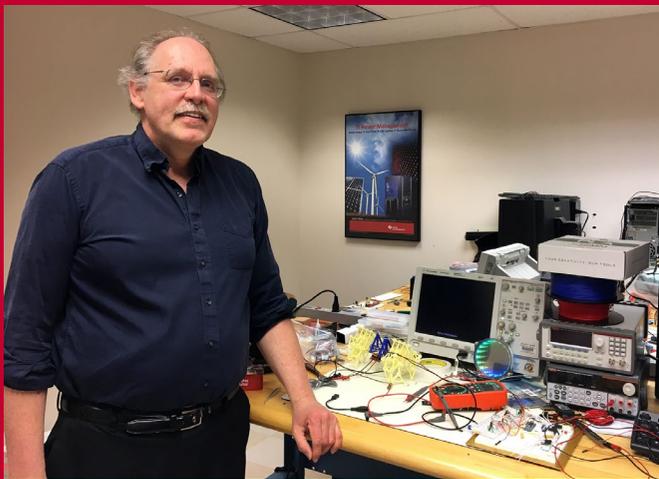
<http://go.osu.edu/h1b>

# DOD to advance electronic materials, manufacturing



Engineering faculty representing several disciplines soon will receive Department of Defense (DoD) funding to accelerate important research and training of graduate students. The Ohio State College of Engineering research teams

have received 2 of the 24 Multidisciplinary University Research Initiative (MURI) awards recently announced. Neal A. Smith Endowed Chair Professor of Electrical and Computer Engineering **Steven A. Ringel**, Electrical and Computer Engineering Associate Professors **Siddharth Rajan** and **Hongping Zhao**, and Materials Science and Engineering Assistant Professor **Jinwoo Hwang** are co-investigators of a MURI project led by **James Speck** at the University of California, Santa Barbara. Sponsored by the Air Force Office of Scientific Research, the “Gallium Oxide Materials Science and Engineering - GAME” project will study the promising wide bandgap semiconductor material’s structure-property relationships and advance the material to new-generation electronic and photonic device applications. The Ohio State investigators will share approximately \$3.7 million of the total awarded amount (\$7.5 million) over the next 5 years. Learn more about the project: <http://go.osu.edu/dodmandm>



## *ECE Faculty Spotlight:* **Steven Bibyk**

Reverse engineering is a method of analyzing a product or design and recreating it, rather than producing it from scratch. At an early age, Dr. Steven Bibyk discovered his passion for it.

Before leaving for work each morning, his father would remove the cathode ray tubes from the television so Bibyk and his siblings would find other activities besides watching shows.

The young Bibyk was smart, though; after discovering the instructions inside the television, he learned to place the tube back in the set, watch TV all day, and remove it before his father returned.

“That was empowering,” Bibyk said. “I outsmarted my dad... and I figured out how to make electronics do something really useful for me.”

Learn more about Bibyk and his goals at Ohio State:

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



**2018**  
**“Above and Beyond”**  
**ESAC Awards**



## **Andrews and Horns earn** **‘Above and Beyond’ awards**

Two faces in The Ohio State University’s Department of Electrical and Computer Engineering (ECE) were spotlighted for their “Above and Beyond” work efforts in 2018.

The Engineering Staff Advisory Committee (ESAC) awarded **Mark Andrews**, a research associate engineer at the ElectroScience Laboratory, the “Exemplary Support or Advancement of Research” Above and Beyond Award during its annual Staff Appreciation Luncheon on April 26.

ECE/IMR Communications Specialist **Ryan Horns** won the 2018 “Outstanding Service” Above and Beyond Award, for his work promoting research and student activities in engineering. Learn more:

<http://go.osu.edu/Horns-Andrews-aab18>