



# 80<sup>TH</sup> DEVICE RESEARCH CONFERENCE

June 26-29, 2022 // The Ohio State University // Columbus, Ohio

## SUBMIT YOUR ABSTRACT

**ABSTRACT DEADLINE: FEBRUARY 28 AT 11:59 PM (ET)**

For eight decades, the Device Research Conference (DRC) has brought together leading scientists, researchers and students to share their latest discoveries in device science, technology and modeling. Notably, many of the first public disclosures of key device technologies were made at the DRC. **This year marks the 80th anniversary of the DRC—the longest running device research meeting in the world.** The high-caliber technical sessions will be highlighted by plenary talks and invited talks by international research pioneers and leaders behind modern electronic technology.

### MEET THE PLENARY SPEAKERS



**Evelyn Hu**  
Harvard University

*Rediscovering Semiconductor Materials for Quantum Photonic Devices*



**Thomas Mikolajick**  
NaMLab gGmbH

*Unleashing the Potential of Integrated Ferroelectric Devices with Hafnium Oxide*



**Phil Neudeck**  
NASA Glenn Research Center

*The Path Towards Realistic ASIC Electronics Deployment Into Previously Impractical Extreme Application Environments*

Learn more  
[mrs.org/drc-2022](https://mrs.org/drc-2022)

Please see the website for up-to-date information regarding hybrid and virtual options for DRC 2022.

#### General Chair

**Becky (R.L.) Peterson**  
University of Michigan

#### Technical Program Co-Chairs

**Gregg Jessen**  
MACOM

**Huili (Grace) Xing**  
Cornell University

#### Technical Program Vice-Chair

**Andy Carter**  
Teledyne Scientific & Imaging, LLC

#### Topics:

- Biological Devices
- Devices for Extreme Conditions
- Heterogeneously Integrated Devices
- Memory Devices
- Modeling and Simulation of Devices
- Nanoscale and Vacuum Devices
- Optoelectronic and Optical Devices
- Other Emerging Devices
- Power Devices
- Quantum Devices
- RF and Terahertz Devices
- Spintronic and Magnetic Devices
- Thin-film Devices
- Wide-bandgap Devices

### We look forward to seeing you next June! Get excited for:

- An informative, timely short course in rapidly developing fields
- Oral and poster presentations on electronic/photonic device experiments and simulations
- Plenary and invited presentations given by worldwide leaders
- Evening “rump” sessions
- Strong student participation and Student Paper Awards



DRC is coordinated with the Electronic Materials Conference (EMC), which is held during the same week from June 29–July 1, 2022. This recognizes the strong interaction between device and electronic materials research and provides for fruitful exchange of information between attendees of both conferences.