



# 81<sup>ST</sup> DEVICE RESEARCH CONFERENCE

June 25–28, 2023 // University of California, Santa Barbara // Santa Barbara, California

## SUBMIT YOUR ABSTRACT

**ABSTRACT DEADLINE: FEBRUARY 20, 2023 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 81st 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



**Ana Claudia Arias**  
University of California, Berkeley

*Integrated Printed and Flexible  
Electronic Systems*



**Gerhard Klimeck**  
Purdue University

*25 Years of Development — From  
Esoteric Quantum Transport Theory  
to Wide Adoption in Atomistic  
Device Simulation*



**Kei May Lau**  
The Hong Kong University of  
Science and Technology

*EPI (Electronic Photonic Integration)  
by EPI (Epitaxy)*

Learn more [mrs.org/drc-2023](https://mrs.org/drc-2023)

#### General Co-Chairs

**Gregg Jessen**  
MACOM

**Huili (Grace) Xing**  
Cornell University

#### Technical Program Co-Chair

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

#### Technical Program Vice-Chair

**Saptarshi Das**  
The Pennsylvania State University

#### Topics:

- 2D Material Devices
- Device Heterogeneous Integration
- Device Modeling and Simulation
- Devices for Extreme Conditions
- Emerging Device Technologies
- Neuromorphic and Memory Devices
- Optical and Optoelectronic Devices
- Power Devices
- Quantum and Spin-based Devices
- RF and Terahertz Devices
- Thin-film Devices
- Wide-Bandgap Devices

### We look forward to seeing you in 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



The 81<sup>st</sup> DRC is managed by  
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DRC is coordinated with the Electronic Materials Conference (EMC), which is held during the same week from June 28–30, 2023. This recognizes the strong interaction between device and electronic materials research and provides for fruitful exchange of information between attendees of both conferences.