



62ND ELECTRONIC MATERIALS CONFERENCE

June 24-26, 2020 // The Ohio State University // Columbus, OH

CALL FOR PAPERS

The **62nd Electronic Materials Conference (EMC)** is the premier annual forum on the preparation, characterization and use of electronic materials. The 2020 Conference, to be held June 24-26 at The Ohio State University, immediately follows the Device Research Conference. EMC will feature a plenary session, parallel topical sessions, a poster session and an industrial exhibition. Mark your calendar today and plan to attend!

ABSTRACT SUBMISSION

December 11, 2019 – January 24, 2020

PREREGISTRATION

Late March – June 5, 2020

Conference Chair

Kris Bertness

National Institute of Standards and Technology

Program Chair

Lisa Porter

Carnegie Mellon University

SCIENTIFIC PROGRAM

• The three-day Conference will feature oral and poster presentations covering:

ELECTRONIC MATERIALS SCIENCE AND TECHNOLOGY

- Contacts to Semiconductor Epilayers, Nanostructures and Organic Films
- Embedded Nanoparticles and Nanocomposite Films
- Epitaxial Materials and Devices
- Materials for Memory and Computation
- Materials Integration
- Metamaterials and Materials for THz, Plasmonics and Polaritons
- Nano-Magnetic, Magnetic Memory and Spintronic Materials
- Nanofabrication and Processing
- Narrow Bandgap Materials and Devices
- Point Defects, Doping and Extended Defects
- Quantum Materials
- Transparent Conductors

ENERGY STORAGE AND CONVERSION MATERIALS

- Electrochemical Energy Storage and Conversion
- Energy Harvesting
- Solar Cell Materials and Devices
- Thermoelectrics and Thermal Transport

NANOSCALE SCIENCE AND TECHNOLOGY

- Graphene, BN, MoS₂ and Other 2D Materials and Devices
- Low-Dimensional Structures—Quantum Dots, Wires and Wells
- Materials Integration
- Nanoscale Characterization—Scanning Probes, Electron Microscopy and Other Techniques
- Nanowires and Nanotubes—Growth, Processing, Characterization and Devices

ORGANIC MATERIALS, THIN FILMS AND DEVICES

- Electronic Materials for Bio
- Flexible, Printed and/or Dissolvable Thin Films or Nanomembranes
- Organic and Hybrid Optoelectronic Devices
- Organic Devices and Molecular Electronics

OXIDE SEMICONDUCTORS AND DIELECTRICS

- Dielectrics and Multifunctional Oxides
- Gallium Oxide
- Oxide Semiconductors—Growth, Doping, Defects, Nanostructures and Devices

WIDE BANDGAP SEMICONDUCTORS

- Diamond and Related Materials
- Group III-Nitrides—Growth, Processing, Characterization, Theory and Devices
- Silicon Carbide—Growth, Processing, Characterization, Theory and Devices

CONFERENCE VENUE

The Ohio State University (OSU) is a world-renowned educational institution located in the heart of Ohio—Columbus. Ohio's capital city offers many places of interest, including the Center of Science and Industry on the west bank of the Scioto River, the Santa Maria replica docked on the downtown riverfront, the Columbus Museum of Art and Franklin Park Conservatory found less than two miles from downtown, and the Columbus Zoo, where you may run into Jack Hanna. German Village—the nation's largest privately restored historic neighborhood—is a must see. And, downtown's northern edge is home to Short North, where you'll find some of the best art galleries, specialty shops, pubs and coffee houses that Columbus has to offer. Take all this and add in the numerous dining and shopping opportunities, and you will see why Columbus makes a perfect Conference destination.



Student participation in this Conference is partially supported by a grant from the TMS Foundation.



The 62nd EMC is managed by

CONFERENCE SERVICES

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EMC 2020 directly follows the 78th Device Research Conference, planned for June 21-24, 2020 at The Ohio State University. Please plan your travel arrangements accordingly to allow for attendance at both Conferences.