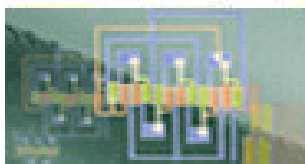


67th

Device Research Conference

June 22-24, 2009 • Penn State University • State College, PA, USA

Call for Papers



www.DeviceResearchConference.org

For more than sixty years, the Device Research Conference has brought together leading scientists, researchers, and graduate students from varied disciplines in academia and industry to share their latest research and discoveries in the field. The university setting of the Device Research Conference encourages frank and open technical discussion on recent breakthroughs and advances in device research, and provides a great atmosphere for social events. The technical program will be a mix of invited, oral, and poster presentations. In addition, the conference will hold three evening rump sessions aimed at engaging the audience in a vigorous and charged discussion on the future directions of competing device technologies. The Device Research Conference has a tradition of strong graduate student participation. This is recognized by offering student travel support and a Best Student Paper Award.

The Device Research Conference is coordinated with the Electronic Materials Conference which will be held during the same week, from June 24 to 26, 2009. This coordination recognizes the close relationship between device and electronic materials research and provides for fruitful exchange of information between attendees of both conferences.

DEVICE TOPICS

The organizing committee is inviting you to submit your top-quality abstracts in all areas of electronic and photonic devices. Areas of particular interest include but are not limited to:

Biological Devices

Energy Scavenging Devices

Magnetic Devices

Memory Devices

Modeling and Simulation of Devices

Nanoscale Devices

Optoelectronic and Optical Devices

Organic and Molecular Devices

Power Devices

Quantum Devices

Silicon and III-V Electronic Devices

Spin-based Devices

Thin Film and Amorphous Devices

Terahertz Devices

Wide-Bandgap Devices

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IMPORTANT DATES

Abstract Submission Deadline	Mar. 6, 2009
Author Acceptance Notification	Apr. 3, 2009
Late News Abstract Deadline	Jun. 5, 2009



June 22-24, 2009

Penn State University

67th



IEEE



DEVICE RESEARCH CONFERENCE

GRAPHENE PHYSICS AND DEVICES - SHORT COURSE

Sunday, 21 June 2009

As interest in graphene heightens, the Device Research Conference (DRC) will hold a short course on graphene physics and devices. This course will teach the physics of graphene: bandstructure, transport properties, thermal physics, spin-effects, collective switching phenomena, and devices. The course emphasizes physics over growth and technology, which will be covered at the DRC and the companion Electronics Materials Conference (EMC). The course is intended for entering physics and engineering graduate students without prior knowledge of graphene, as well as industry, government, and university researchers, and managers who want a compact introduction.

Agenda	Sunday, 21 June 2009
8:30	Registration
8:55	Course logistics and objectives
9:00	Electron Transport – Debdeep Jena, University of Notre Dame
10:15	Spin – Supriyo Datta, Purdue University
11:15	Break
11:45	Pseudospin – Allan MacDonald, University of Texas at Austin
12:45	Lunch
1:45	Thermal Physics – Eric Pop, University of Illinois
2:45	Transistors and Devices – Ken Shepard, Columbia University
3:45	Additional time for public Q&A
4:30	Adjourn