

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

General Chair: Steve Koester (IBM)
Technical Program Chair: David Gundlach (NIST)
www.device-research-conference.org

Short Course Organizer:
Alan Seabaugh (University of Notre Dame)