

Australia-Sandia-Wisconsin Silicon Focus Workshop Schedule

August 17, 2007

Pyle Center, 702 Langdon St., Madison, WI. Tel: (608) 262-1122

- 7:30-8:00 Continental Breakfast
- 8:00-8:40 Welcome and Overview
Bob Clark, Keith Miller, Mark Eriksson
- 8:40-10:00 Scientific Presentations
1. *STM fabrication of precision Si:P devices*
Giordano Scappucci, University of New South Wales
 2. *Si:P and nano-Schottky device*
Maja Cassidy, University of New South Wales
 3. *MOS architecture Si Quantum Dots and Si RF-SETs*
Susan Angus, University of New South Wales
- 10:00-10:30 Coffee Break and Informal Discussions
- 10:30-12:00 Scientific Presentations
4. *Few-Electron Quantum Dots in Si/SiGe*
Christie Simmons, University of Wisconsin-Madison
 5. *Spin Blockade in a Si/SiGe Double Quantum Dot*
Madhu Thalakulam, University of Wisconsin-Madison
 6. *Coherence-enhanced Transport in a Si/SiGe Double Quantum Dot*
Nakul Shaji, University of Wisconsin-Madison
- 12:00-13:15 Lunch
- 13:15-14:40 Scientific Presentations
7. *Single donor doped and undoped accumulation mode metal insulator semiconductor device approaches for quantum computing at SNL*
Malcolm Carroll, Sandia National Laboratory
 8. *Accumulation-mode Si MOS quantum devices and oxide charge induced 2DEGs*
Eric Nordberg, University of Wisconsin-Madison and Sandia National Laboratory
 9. *Coulomb blockade in a Si channel gated by an Al single-electron transistor*
Luyan Sun, Laboratory for Physical Sciences at the University of Maryland
- 14:40-15:00 Coffee Break and Informal Discussions
- 15:00-16:15 Scientific Presentations
10. *Si/SiO₂ materials for quantum information applications*
Jeff McCallum and Nick Stavrios, University of Melbourne
 11. *CTAP and the Si:P fault-tolerant bi-linear array architecture*
Andrew Greentree, University of Melbourne
 12. *Low temperature CMOS control electronics*
Ramesh Ekanayake, University of New South Wales
- 16:15-16:30 Poster Introductions (1-2 minutes per poster)
- 16:30-18:00 Poster Session
- 18:15 Dinner at Nadia's