



**GRAND CHALLENGE WORKSHOP
JULY 30-31, 2015
Snowbird, Utah, USA**

GRAND CHALLENGE WORKSHOP ORGANIZATION
Gary Gerfen (Chair)

Organized by the Research Coordination Network (RCN), “Supporting, Highlighting and Advancing Recent Developments in EPR” (SHARED EPR), funded by the National Science Foundation

AGENDA

THURSDAY, JULY 30, 2015

1:30 PM	SHARED EPR: A Network of EPR Investigators. Gary Gerfen, Albert Einstein College of Medicine
2:00 PM	High Sensitivity ESR with High Spatial Resolution: Methodologies and Applications. Aharon Blank, Technion – Israel Institute of Technology
2:45 PM	Single-chip Electron Paramagnetic Resonance Transceivers in Silicon. Aydin Babakhani, Rice University
3:30 PM	<i>Break</i>
3:45 PM	Resonating (and non-resonating) Microstructures for Broad-band Electrically and Optically Detected Magnetic Resonance Spectroscopy. Christoph Boehme, University of Utah
4:30 PM	Pushing the Sensitivity Limits for EPR of Small Samples with Micro-fabricated Planar Resonators. Dieter Suter, Technical University of Dortmund
5:15 PM	Breakout Sessions/Discussion

FRIDAY, JULY 31, 2015

9:00 AM	Single Spin Sensors: The New Paradigm in Ultrasensitive EPR and NMR? Jörg Wrachtrup, University of Stuttgart
9:45 AM	EPR Detection on Microchips - On the Way to Single Cell Detection. Alex Angerhofer, University of Florida
10:30 AM	Scaling Rules, Detection Methods, and Future Directions for EPR. Gareth Eaton, University of Denver
11:15 AM	General Discussion/Breakout Sessions/White Paper Outline