

2016 Nanoelectronics Program Review

Dr. Harold Weinstock | October 24, 2016 | Arlington, VA

Basic Research Innovation and Collaboration Center (BRICC)
4075 Wilson Blvd., Suite 350 | Liberty Room
Arlington, VA 22203

Agenda | October 24, 2016

Time	Title	Speaker
0800-0815	Registration	
0815-0820	Introduction	H. Weinstock, AFOSR
0820-0840	Nanoscale Magnetic Imaging of Condensed Matter Systems Using Diamond Spins	Ania Bleszynski Jayich, UCSB
0840-0900	Spatiotemporal Magnetic Imaging at the Nanometer and Picosecond Scales	Greg D. Fuchs, Cornell
0900-0940	Quantum Control of Single Spins in Semiconductors	David D. Awschalom, Chicago
0940-1000	Single Color Center Engineering in Nanodiamond for Quantum Key Distribution	Luke J. Bissell, AFRL/RX
1000-1030	BREAK	
1030-1050	Manipulation of Electrons to Improve Thermoelectric Transport	Mona Zebarjadi, UVA
1050-1110	Transverse Thermoelectric Performance and Characterization: Towards Scalable Integrated Thermoelectrics	Matthew Grayson, Northwestern
1110-1130	Electronic, Thermal, and Unconventional Applications of 2D Materials	Eric Pop, Stanford
1130-1150	Ferroelectric and Multiferroic Thin Films for Tunnel Junction Applications	Ram S. Katiyar, UPR
1150-1250	LUNCH	
1250-1310	Local Picoscale Disorder of Periodic Lattice Displacements in a Stripe-Ordered Manganite	Lena F. Kourkoutis, Cornell
1310-1320	Probing the Atomic Origins of Electronic States in Low Dimensional Materials and Interfaces	Pinshane Huang, UIUC
1320-1340	Valley Magnetoelectricity in Single-layer MoS ₂	Kin Fai Mak, Penn State
1340-1400	NanoSQUID-on-a-tip for Scanning Magnetometry and Thermometry	Andrea F. Young, UCSB
1400-1420	Tuning Electronic Properties by Uniaxial Strain	Abhay Pasupathy, Columbia

1420-1440	Paper and Circuits, only Atoms Thick	Jiwoong Park, Chicago
1440-1510	BREAK	
1510-1540	FY15 MURI: Foldable and Adaptive Two-dimensional Electronics	Han Wang, USC
1540-1600	Reconfigurable, Corrugated Graphene Plasmonics	SungWoo Nam, UIUC
1600-1620	Quantum Transport and Optoelectronics with van der Waals Heterostructures	Pablo Jarillo-Herrero, MIT
1620-1650	FY15 MURI: Atomically-Thin Systems that Unfold, Interact and Communicate at the Cellular Scale	Jiwoong Park, Chicago
	MEETING ADJOURNED	