

2016 Superconductivity Program Review

Dr. Harold Weinstock | November 10, 2016 | Arlington, VA

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

Agenda - Thursday, November 10, 2016

Time	Title	Speaker
0730-0755	Registration	
0755-0830	Introduction	H. Weinstock, AFOSR
0800-0830	Search and Theoretical Guidance for Higher T _c Superconducting Materials: an Update	Ian Randal Fisher, Stanford
0830-0900	Discovery of New Superconductors By: Deliberate, Combinatorial or Natural Synthesis	Ivan K. Schuller, UCSD
0900-0930	Investigation of New Iron-Chalcogenide Superconductors	JP Paglione, Maryland
0930-1000	AFRL Search for New Superconductors and Air Force Goals	Tim Haugan, AFRL/RQQM
1000-1030	BREAK	
1030-1050	Investigation of Superconductivity in Boron Doped Diamond	Steven Prawer, Melbourne
1050-1110	Electric-field-induced Conducting State in CuCl	Yakov Kopelevich, Campinas
1110-1130	Interface - induced 25 K Superconductivity in Ca ₁₂₂ at Ambient Pressure	C.W. Chu et al., Houston
1130-1145	Search for New Superconductors near Broken Rotational Symmetry Instabilities	Jiun-Haw Chu, Washington
1145-1245	LUNCH	
1245-1300	Interfacial FeSe Superconductivity at Strong Electron-Electron Repulsion	Jose Rodriguez, Cal State LA
1300-1320	Can Stoichiometric La ₂ CuO ₄ Be an Undoped High-Temperature Superconductor	Kyle Shen, Cornell
1320-1340	P-doped Graphene, a Summary	Grover Larkins, FIU
1340-1400	Chemical Doping and High Pressure Studies of Mineral Related β -PdBi ₂ Single Crystals	Bing Lv and C. W. Chu, UT-Dallas and Houston
1400-1420	Determining Latitude and Longitude for Quantum Spins	Irfan Siddiqi, UCB
1420-1440	Graphene-Superconductor Weak Links	Xu Du, Stony Brook

1440-1510	Direct-write Nano Josephson Superconducting Tunnel Junctions	Shane Cybart, UCR
1510-1540	BREAK	
1540-1600	Superconducting Fraunhofer Amplifiers	Kevin Pratt, Tristan Technologies
1600-1620	Operation of HTS Digital Circuits at Elevated Temperatures: Beating Thermal Activation	Horst Rogalla, Colorado/NIST
1620-1645	What if We Could Electrically Tune Properties of Strongly-correlated Materials?	David Goldhaber-Gordon, Stanford
1640-1655	Discussion: What do we need to make more Practical HTS Materials, and what do we need to make HTS Josephson-based Electronics Practical?	Opinions to be expressed by Pls
1655	MEETING ADJOURNED	