

CES Workshop Agenda

Thursday, November 11

(All day: Junior Researchers' Workshop)

7:00 p.m. Arrival and Welcome Reception.

Friday, November 12

8:00 - 9:00 am Seamus Davis: Overview, Ops, and Inspiration

Session 1: Vortex Matter and Critical Currents

(Note: all speakers should allow 5 min for questions)

9:00 Wai Kwok – Overview

9:20 Ulrich Welp – c-Axis transport in commercial YBCO tapes

9:45 Alexei Koshelev – Vortex pinning by multiple inclusions

10:10 Vitalii Vlasko-Vlasov – Development of thermal imaging technique for heat dissipation at critical current threshold

10:30 John Tranquada – Vortex pinning by field-induced stripe order

10:50 Coffee Break (30 min)

Session 2: Materials

(Again: leave time for questions)

11:20 Laura Greene – Overview

11:40 Jim Eckstein – Search for new superconducting phases,
Tunneling into a-axis $(\text{LaSr})_2\text{CuO}_4$

12:05 Ivan Bozovic – Synthesis of LaSrNiO and $\text{Sr}_2\text{CuO}_{4-d}$ films and heterostructures

12:30 Lunch and Posters (2 hours)

Session 2 (continued)

2:30 Cedomir Petrovic – Growth, structural, and physical properties of $\text{Fe}_{1+y}\text{Te}_{1-x}\text{S}_x$ crystals

2:55 Jia-Min (Jim) Zuo – Phase Separation and Chemical Inhomogeneity in $\text{Fe}_{1+y}\text{Te}_x\text{Se}_{1-x}$

Session 3A: Mechanisms

(As always, leave 5 min for questions)

3:20 John Tranquada - Overview

3:40 Russ Giannetta – Absolute London penetration depth measurements
 $\text{Ba}(\text{Fe},\text{Co})_2\text{As}_2$, $\text{Fe}(\text{Te},\text{Se},\text{S})$

4:00 Break

4:30 Dale Van Harlingen – Phase sensitive measurements of pairing symmetry
 $\text{Ba}(\text{Fe},\text{Co})_2\text{As}_2$

4:50 Laura Greene – Point-contact spectroscopy of the Ba and Sr 122s, and $\text{Fe}(\text{Te},\text{Se})$

5:10 Philip Phillips – Orbital ordering in iron pnictides

5:30 Discussion

6:00 Drinks / Snacks and Posters

7:00 Dinner

8:30 Joint Executive and Advisory Committee Meeting (and more posters)

Saturday, November 13

8:00 George Crabtree – report on Sci-Tech

8:30 Steve Fleshler – American Superconductor

9:00 Qiang Li – Superconducting Magnet Energy Storage System (SMES) for GRIDS

9:30 Laura Greene – report on CES outreach to MURIs,
Int'l ad-hoc group to search for new HTS s, and M2S 2012

9:50 Coffee break (30 min)

Session 3B: Mechanisms

10:20 Mike Norman – Fermi surface reconstruction and pseudogap physics

10:40 Peter Abbamonte – Search for loop currents using polarized resonant x-ray scattering

11:00 Peter Johnson – Hole pockets in underdoped cuprates from ARPES

11:20 Alexei Tsevilik – Models of superconductivity and quasiparticle spectral function

11:40 Seamus Davis – Smectic and nematic behavior in cuprates observed by SI-STM

12:00 Peter Johnson – Wrap up, discussions, lunch