Center for Emergent Superconductivity Workshop

November 14-16, 2016

Monday, November 14, 2016

Student/Postdoc Day

6 – 8 pm Welcome Reception, Hilton Garden Inn

Tuesday, November 15, 2016

8	am	Break	cfast
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8.45 – 9.25 a.m. Peter Johnson

Director's report and Mechanisms Overview

9.25 – 9.50 a.m. Mark Dean

Precursor charge density waves in La2-xBaxCuO4

9.50 –10.15 a.m. Peter Sprau

Discovery of Orbital-Selective Cooper Pairing in FeSe

10.15 – 10.30 Break

10.30 – 10.40 Wai Kwok

Vortices Overview

10.40 – 11.10 Ulrich Welp

Vortices Progress Report

Updates from Industry

11.10 – 11.30 Marty Rupich (AMSC)

11.30 – 11.50 Yifei Zhang (SuperPower)

11.50 – 12.10 Andreas Glatz

Large Scale Simulations of Critical Currents: (SciDAC/OSCON program)

12.10 – 12.30 Discussion for the Renewal from a Vortices perspective (20 mins)

12.30 - 1.30 pm *Lunch*

Mechanisms Part 2

1.30 – 1.50 Ivan Bozovic

Demise of superfluid density with overdoping in LSCO

1.50 – 2.10	Jon Rameau Energy Dissipation from a Correlated System Driven Out of Equilibrium
2.10 – 2.30	Alexei Koshelev Surface Nematic State
2.30 - 2.45	Materials Introduction Jim Eckstein
2.45 – 3.15	Lucas Wagner Progress on predictors for unconventional superconductivity
3.15 - 3.30	Break
3.30 – 3.50	Daniel Shoemaker Genomic approaches to synthesis of correlated chalcogenides
3.50 – 4.10	Cedomir Petrovic Superconducting and normal state in iron chalcogenides
4.10 – 4.30	Antia Botana Electronic structure of CuTeO4 and its relationship to the cuprates
4.30 - 5.00	Summary and Discussion Jim Eckstein
6.00- 8.30 pm	Buffet Dinner, Hilton Garden Inn

Wednesday, November 16, 2016

8.00 am	Breakfast
9.00 – 9.40 am	John Tranquada BRN report on Quantum Materials – Superconductivity
9.40 – 10.15 am	Mike Norman Topological Superconductors
10.15 - 10.30	Break
10.30 – 11.00	Qiang Li Chiral Magnetic Effect in Condensed Matter
11.00 – 12.00	Renewal Discussion
12.00	Lunch