Condensed matter physics, x-ray scattering and x-ray spectroscopy at the APS-U
September 25 & 26, 2018
Agenda

Tuesday, September 25, 2018 - APS Building 402, Room E1100 & E1200

9:00 – 9:15	Stephen Streiffer, APS Director Welcome remarks
9:15 – 9:35	Dean Haeffner, Advanced Photon Source Upgrade Project *APS-U Beamline Upgrades*
9:35 – 10:05	Simon Gerber, Paul Scherrer Institute, Switzerland *X-ray scattering and spectroscopy of quantum matter under extreme conditions*
10:05 – 10:35	Sebastian Gliga, University of Glasgow *Imaging nanomagnets in three dimensions - Magnetic vector nanotomography*
10:35 – 10:45	*Break*
10:45 – 11:15	Susanne Stemmer, UC Santa Barbara *Heterostructures, MBE growth of 3D Dirac semimetals and tuning their topological states*
11:15 – 11:45	Taner Yildirim, NIST *Phonons in Novel Materials: From 2D Weyl semimetal MoTe2 to 3D pnictide superconductors*
11:45 – 13:30	Working Lunch & Discussion for Report preparation – Ercan Alp
13:30 – 14:00	Mark Dean, Brookhaven National Laboratory *Unfrustrated Magnetism in Iridates*
14:00 – 14:30	James Analytis, UC Berkeley *Hidden orders in 3D Kitaev candidate beta-Li2IrO3*
14:30 – 15:00	David Mandrus, ORNL *Anisotropic susceptibilities in the honeycomb Kitaev system α-RuCl3*
15:00 – 15:30	*Break*
15:30 – 16:00	Yejun Feng, Okinawa Institute of Science and Technology *Coherent x-ray magnetic scattering to explore spatial and dynamic fluctuations*
16:00 – 16:30	Yue Cao, Argonne National Laboratory *A coherent perspective on quantum materials*
16:30 – 17:30	Discussion

Wednesday, September 26, 2018 - APS Building 402, Room E100 & E1200

9:00 – 9:30	Stephen Rosenkranz, Argonne National Laboratory *Relating local disorder and short-range correlations to materials properties via single crystal diffuse scattering and 3D-PDF methods*
9:30 – 10:00	Christoph Sahle, ESRF *X-ray Raman scattering spectroscopy based imaging at ID20 of the ESRF*
10:00 – 10: 30	Seung-Ho Yu, Cornell University *Mechanistic Studies and Operando X-ray Imaging of Energy Storage Materials*
10:30 – 11:00	*Break*
11:00 – 11:30	Frank Weber, Karlsruhe Institute of Technology *Science for future IXS instrument at the APS-U*
11:30 – 12:00	Thomas Gog, Advanced Photon Source *Scientific Opportunities with Ultra-High Energy Resolution (~<5meV) Resonant Inelastic X-ray Scattering at the APS*
12:30 – 13:30	Working Lunch & Report preparation
13:30 – 15:00	Discussion and report writing
16:00	Adjourn