

Outreach Activities: Workshops, Seminars, etc.

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Outreach for the APS MBA Upgrade

- Science Case
 - Not covered here
- Workshops
 - User Meeting
 - Subsequent workshops
- MBA Focused Seminar Series
- Session at relevant conferences
 - e.g., Denver X-ray Conference



2014 Users Meeting

- May 12-15, 2014
- Day 1 (Monday) Plenary Session
- Day 2 (Tuesday) Cross-Facility Thematic Workshops
 - Beyond Lithium Ion Batteries: Chemistry, Materials, and Characterization
 - [The APS MBA Upgrade: Introduction and Scientific Opportunities](#)
 - A Historical Perspective: The First 100 Years of Crystallography
- Day 3 (Wednesday) Facility Specific Workshops
 - Includes:
 - [Inhomogeneities and Defects in Functional Materials: Future Opportunities with the APS MBA Lattice Upgrade](#)
 - Imaging at Nanometer and Picosecond Scales: Ultrafast Coherent X-ray Science at a Diffraction-limited Storage Ring



User Meeting: APS MBA Upgrade Workshop

- Morning: Introduction/MBA Basics
 - Covers some of the same territory as pre October workshop tutorials sessions
 - Target audience is the non-local user community who could not come to those sessions
 - Organization in progress, speakers will be asked in the next week
- Primer on synchrotron sources, optics implications (Mills or Lang)
- MBA overview for users (Borland or Decker)
- Two optics talks (Assoufid, Conley)
- Ruben Reininger on ray tracing (tentative)
- Insertion Devices (Gluskin or Dejus)
- Detectors (Bradford)



User Meeting: APS MBA Upgrade Workshop

- Afternoon: Scientific Opportunities
 - Series of talks from prominent non-APS users on subject that especially benefit from the MBA low-emittance lattice. Try to tie to specific science applications, try for very forward thinking towards low emittance usage.
 - Developing list of speaker targets — Hope to start invitations in a week or so.
- CDI/Ptychography
- XPCS
- Phase-Contrast Imaging
- ????

- Input on speakers, topics would be very helpful



Post User Meeting Workshops

- Looking to have approximately 18 workshops over the next couple years, more or less evenly spaced.
- Variety of approaches
 - Scientific
 - e.g., Battery studies using MBA enhanced beamlines
 - Technique
 - XPCS, CDI/Ptychography, etc.
 - Technical issues
 - Coherence preserving optics, nano focusing zone plate fabrication
- Solicited proposals from:
 - Wide field imaging (De Carlo, Fezzaa, Assoufid, Xiao)
 - CDI/Ptychography (Vine, Harder)
 - XPCS (Sandy, Narayanan)
 - Mechanical Behavior (Almer)
- Again, input much appreciated



APS MBA Seminar Series

- May be associated with the APS Colloquium
- Look for prominent speakers (mostly non-local) ever two months or so
- No one asked yet, hope to start soon

