

... for a brighter future

APS/User Monthly Operations Meeting

J. Murray Gibson April 30, 2008





A U.S. Department of Energy laboratory managed by The University of Chicago

Agenda

- 2:30 p.m. Refreshments
- 2:45 p.m. APS Update Murray Gibson
- 3:05 p.m. ISM Verification Tom Barkalow
- 3:20 p.m. Theory and Computing Sciences Building Mary Spada
- 3:45 p.m. Adjourn



Electrical near miss incident while "swapping out" a cryopump control unit on an APS sector

Person on beamline staff planned to swap out unit – no electrical work should have been required – found unidentified 2nd power source to relays - went ahead to do unauthorized electrical work to remove wires – assumed 24V – found 208V after disconnecting wires with a screwdriver



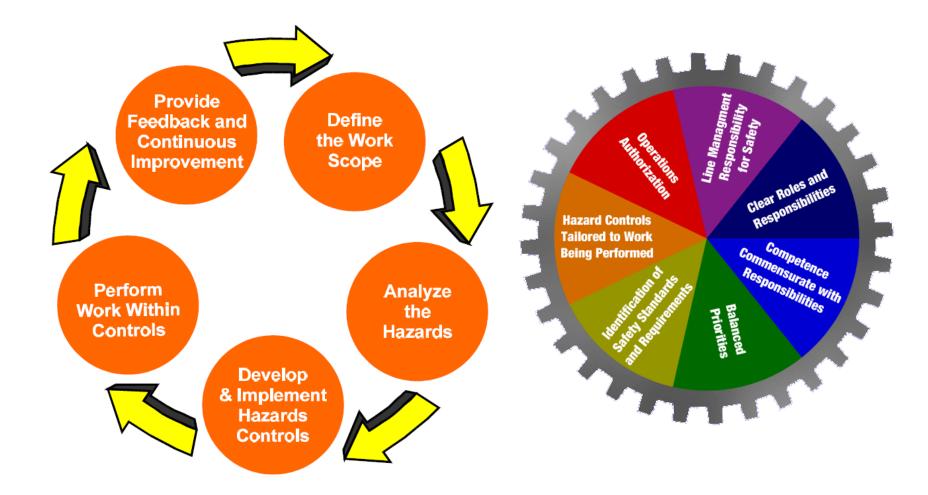


Among the lessons learned...

- Don't make assumptions ask questions and stop when work goes outside scope
- DEEI inspections will provide a further barrier
 - Oxford equipment already being addressed



ANL ISM Audit is approaching in July





DOE Review

- Positive feedback (consistent with the UC reviews of 2007)
 - World-class accelerator performance, R&D
 - Scientific output of APS excellent and growing
 - Excellent staff on beamline and accelerator/engineering side
 - CAT->XOR transitions going well
 - challenges include limited resources and damaged partnerships
- Recommendations
 - Develop a five-year plan, with users, for essential needs re: accelerator and beamlines
 - Reduce workload on beamline scientists and accelerator staff, leaving more time for research. Until budget increases, this requires reducing scope.
 - Develop a bottoms-up budget exercise within APS
 - Increase engagement of the SAC in strategic planning

Issue - need to improve internal and user communications and strengthen user involvement in strategic planning



Planning for APS Renewal and Upgrade (APS2020)

- Developing a plan for APS renewal (5-10 years)
 - Will include beginning of major accelerator upgrade as component
 - We solicited proposals
 - Received over 40 proposals from beamlines, 46 from accelerator side
 - Will be made public
 - Next step is to collect and prioritize these based on scientific themes
 - Expect a matrixed approach, both science and technique
 - Will fold in options for long-term machine upgrade
- Workshop October 20-21: Scientific Advisory Committee will advise on priorities
- Aim for a document by the end of the calendar year





Highlights of Users Week

Sunday May 4	Monday May 5	Tuesday May 6	Wednesday May 7		Thursday May 8	Friday May 9
	Exhibits 8:00 - 5:00	Exhibits 8:00 - 5:00	Exhibits 8:00 - 5:00			
	Registration 7:30 - 5:00	Registration 8:30 - 5:00	Registration 8:30 - 5:00		Registration 8:30 - 5:00	
Exhibitor Set-up 11:00 - 3:00 Registration 1:00 - 4:00	Opening Session Lect. Hall, 8:30 - 11:45 • DOE Perspective • APS Update • CNM Update • EMC Update	VM01 A1100 & 53 - 12:15 Diffraction Studies of Structural and Mechanical Properties VM02 Lect, Hall S:00 - 12:00 SAXS and SANS Applications in Nano Materials and Nano Biology VM03 Lect, Hall S:00 - 12:00 Scientific Advances in Inelastic X-Ray Scattering VM04 Scientific Advances in Inelastic X-Ray Scattering VM04 Solortware for Challenging Cases in Macromolecular Crystallography	DNM Plenary & Science Session Lect. Hall, 8:45 - 12:00		WK05 contd. E1100/E1200 8:45 - 12:30 WK06 contd. Lect. Hall 9:00 - 12:30 WK07 A1100 9:00 - 12:00 Nanoscale Phenomena near Phase Transitions WK03 Bidg. 360, £119 9:00 - 12:00 Scattering and Spectroscopic Studies of Materials in High Magnetic Fields WK09 9:00 - 12:00 Scientific Replications of Nuclear Resonant Scattering	ChM Short Courses Bidg. 440 Gallery Satellie Workshops • Mössbauer A5000 • Short Pulse £1100
	Lunch Tent 12:00 - 1:30	Lunch Tent 12:00 - 1:30	Lunch Tent 12:00 - 1:30	APSUO SC Lunch Lunch from Tent; 5th Fl. Gallery	Lunch Tent 12:00 - 1:30	
	APS Science Session Lect. I.el/ 1:15 - 4:45 APS election results announced	VMC1 contd. A1100 1145 - 5:00 VMC2 contd. Lect. Hali 1:10 - 5:00 VMC3 contd. E1100/E1200 1:10 - 4:30 VMC4 contd. A5000 1:30 - 4:30	EMC Science ASIS Session A1100 1:30-4:30	VK05 E1100 L1200 J 1800 -515 Emergent States at Interfaces of Complex Oxides: What Can Be Learned from Local Probes ? VK06 Lect. Hall 1:30 - 4:45 Nanoscale Heterostructures	WK07 contd. A1100 1.30 - 4.30 WK08 contd. Bidg. 360, L119 1.15 - 5.00 WK09 contd. A5000 1.30 - 4.00 WK10 Lect. Idal! T25 - 4.45 In-stu Surface Science: Growth and Properties of New Materials WK11 Eff00/Ef220 F100/Ef220 F100-F220 Other Applications	CMM Short Courses Didg-440 Gallery Satellite Workshops • Mössbauer A5000 • Short Pulse E1100
"Bernal's Picasso" Lect. Hall 3:30 - 5:00 Exhibitor Expo and Reception 401 Atrium & 402 Gallery 5:00 - 6:30	APS Poster Session and Reception Biolog. 437 5:00 - 6:37 Sub-Angstrom Microscopy and Microanalysis Facility Reception Bidg. 216 Lobby 5:00 - 6:30	APS/EMC/CNM Tours Meet 401 Afrium 44:45 - 5:45	CMMENC Poster Session and Reception Bidg 440 Gallery & Terrace 4:45 - 6:30			
	Beamline Advisory Group Meetings	Banquet Shedd Aquarium	APS PUC Dinner/Meeting Guest House			



Budget uncertainty

APS FY 2009 Long Range Operations Schedule

