

... for a brighter future

APS/Users Operations Monthly Meeting

J. Murray Gibson January 28, 2009





A U.S. Department of Energy laboratory managed by UChicago Argonne, LLC

Agenda

- 2:30 p.m. Refreshments
- 2:45 p.m. APS Update Murray Gibson
- 3:05 p.m. Update on Constructing a Dedicated Fuel Spray Beamline at 7-BM – Jin Wang
- 3:25 p.m. Planned Beamline Developments at NSLS-II Mark Beno
- 3:45 p.m. Adjourn



Safety

- Be wary of slips in winter weather
 - Slips, trips and falls are responsible for 20% of workplace injuries



- Report icy spots which have not been cleared or have re-iced
- Identify places that don't drain well etc. for possible engineered fixes
- Contact Rick Janik, Building Manager (x6068, <u>REJ@aps.anl.gov</u>)





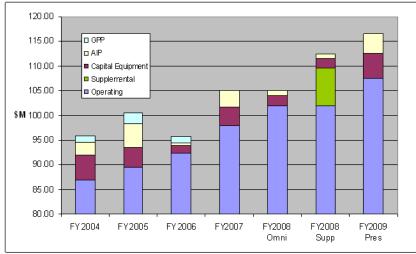
Budget update

- Three important events for APS due to happen in February
 - Stimulus package DOE Science House \$1.9B, Senate \$430M
 - expected by mid February
 - FY 2009 Omnibus bill
 - expected by March 6th expiry of CR
 - FY 2010 Budget Cycle (AIP)

• February 2: Obama administration send placeholder budget to Congress; Mid to Late February: Administration scheduled to release a budget outline; April: Administration scheduled to

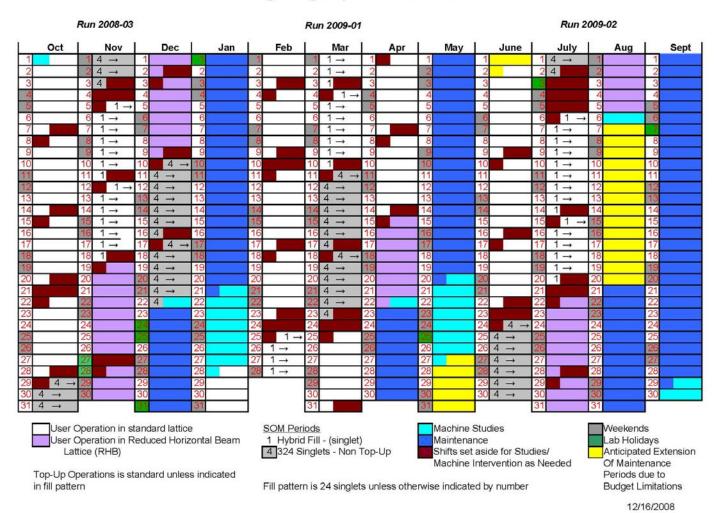
release detailed budget plan

Guardedly optimistic, but still preparing for difficult scenarios



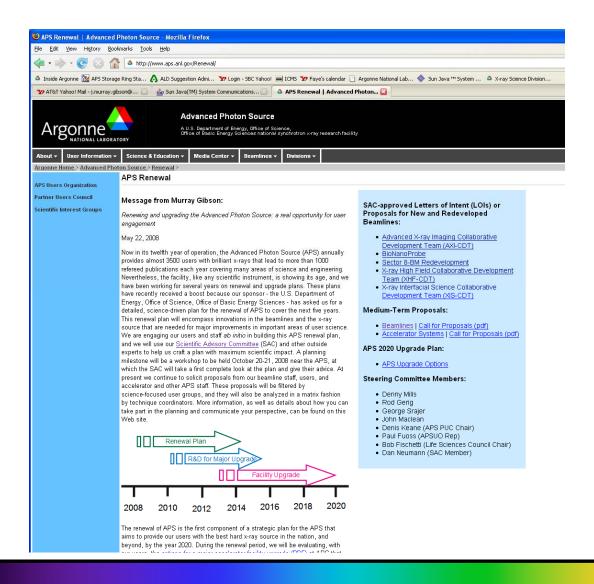
2009 Run Schedule has flexibility for bad budget scenario

APS FY 2009 – With Budget Limitations Long Range Operations Schedule





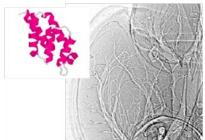
APS Renewal plans move forward



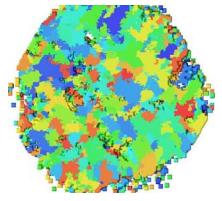


APS Renewal Themes emerged from October workshop

Mastering hierarchical structures through x-ray imaging

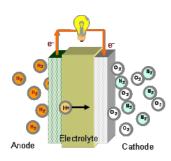


Images from proteins to living organisms will help connect the dots in understanding how genetics controls health and disease (image courtesy W.K. Lee)

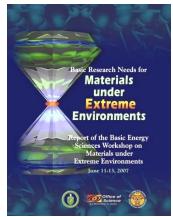


3-D distribution of grains in a 1 mm cube of AI (courtesy R. Suter)

Real materials in real conditions in real time



Schematic of an H₂ fuel cell



The cover of this BESAC report shows a diamond anvil cell. APS has been the most prolific source of high-pressure science.

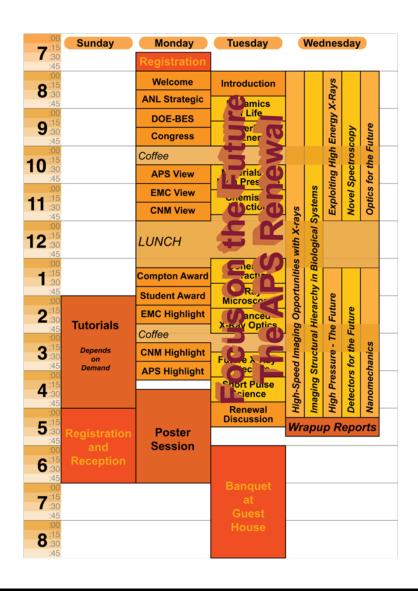


Anticipated path to APS renewal

- Instrument proposals solicited (Summer 2008)
- Science thrusts chosen (Oct 2008)
- Whitepaper submitted to DOE (Nov 2008)
- Refinement of instrument ideas in context of science drivers (now)
- Workshop proceedings released (Feb 2009)
- User meeting of May 2009 focused on renewal
- Hope to move forward with project conceptual design in FY 2010
 - Discussions ongoing with DOE-BES
 - Other deliverables (e.g. proposal) to be determined
- Keep momentum, continuing to be open to user input
 - SAC has provided guidance on moving forward
 - details to be discussed with BES and coordinating committee, determined and released soon



2009 User's Meeting - Focus on the Future



- Meeting runs from May 3 through May 6
- Two days of the meeting will concentrate on the APS Renewal
- Nominations are requested for Compton Award
- Students can compete for poster prizes and a featured talk
- Is there interest in tutorials
 - Machine Physics
 - X-Ray Optics
 - EPICS and Controls
 - SAXS Analysis
 - EXAFS Analysis
 - PDF Analysis

Feedback to Paul Fuoss (fuoss@anl.gov)



Agenda

- 2:30 p.m. Refreshments
- 2:45 p.m. APS Update Murray Gibson
- 3:05 p.m. Update on Constructing a Dedicated Fuel Spray Beamline at 7-BM – Jin Wang
- 3:25 p.m. Planned Beamline Developments at NSLS-II Mark Beno
- 3:45 p.m. Adjourn

