



*... for a brighter future*

# *APS/Users Operations Monthly Meeting*

*J. Murray Gibson*

*February 18, 2009*



U.S. Department  
of Energy

UChicago ►  
Argonne<sub>LLC</sub>



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. Six mrads and two endstations: Squeezing it all in at the GSECARS (13BM) bending magnet beamlines– Peter Eng
- 3:25 p.m. 2008 User Survey Results – Dennis Mills
- 3:45 p.m. Adjourn

## *Safety and environment first the good news...*

- We have had no recordable incidents in PSC this fiscal year (only one first-aid case)
- The RF Group has arranged for several years to have insulating oil in transformers cleaned and recycled. This has saved APS, Argonne, and DOE the costs of acquiring replacement oil and for disposing of the replaced oil as well as reducing the amount of waste oil from APS operations. This pollution prevention and recycling activity has been recognized by DOE and is being considered for a White House "Closing the Circle" Award.

## *Safety and environment continued...*

- Work planning and control procedures will be implemented across the laboratory very soon
  - ESAFs are consistent with experimental WPC
    - *Non-beamline work could use ESAFs or new lab-wide system*
  - Non-experimental work controls will be implemented through our work request system
    - *Other non-experimental work must be appropriately reviewed and planned*
  - Laboratory Management System (soon, we hope to be NSF certified) used to ensure robustness and user input into these policies and procedures (our folks have been very involved)
- Important DOE HSS review of lab early this summer will likely focus on WPC

## ***2009 Budget remains uncertain, but good signs from Washington***

- STIMULUS PASSES AND DOE SCIENCE GETS \$2B!
  - "The conferees agree to provide an additional \$1,600,000,000 for the Science program. After taking into account the additional \$400,000,000 provided for Advanced Research Projects Agency-Energy (ARPA-E) in a separate account, the funding level for Science is the same as proposed by the House, instead of \$330,000,000 as proposed by the Senate.
- Expecting rapid passage of 2009 Omnibus funding bill (CR expires March 6<sup>th</sup>)
  - From these two sources, we have good hope of additional FY2009 support that we need to continue full operations (~ \$10M)
- FY2010 budget expected in April – we need a budget over \$130M to operate fully in FY2010. We must advocate for these needs (see next table with explanation)

## Budget summary projection for 2009 and 2010

	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010
Total FTE's (EOY)	450	453	441	451	459	457
LCLS FTE's	14	16	17	20	2 <sup>(b)</sup>	0
Effort	60.6	64.1	66.1	70.3	79.9	82.8
Machine power	5.3	6.0	6.7	7.2	8.4 <sup>(c)</sup>	9.0
Other (common space..)	8.9	7.5	8.4	9.1	9.6	11.3
M&S (% of div. spending)	14.6 (19%)	15.9 (20%)	17.9 (21%)	12.9 (16%)	18.8 (19%) <sup>(a)</sup>	19.5 (19%)
Carryover	0.1	-1.0	-1.3	2.5		
Operating BA from BES	89.4	92.4	97.9	102	116.8 (est)	122.5 (est)
Capital /AIP available	8.9	2.0	7.2	3.0	6.0	10
Total BA from BES	98.4	94.4	105	105	122.8	132.5
Budget notes					\$105 CR +\$7.3 Supp +\$10.5 short	
Capital recolored to ops	0	2.2	0.9	5.0	1.0 <sup>(d)</sup>	0

The apparently large increase needed in FY2009 compared with FY2008 is due to:

- (a) Need for adequate M&S (+\$5.9M)
- (b) Reduction in external support for key APS employees from LCLS (+\$2.9M)
- (c) Machine power increase (+\$1.2M)
- (d) Need to preserve capital for obsolescence/repair of accelerator and beamlines

The DOE BES review recommendations of 2008 support (a) and (d).

# APS Renewal Progress

- Strong encouragement from DOE
  - Awaiting FY09/10 budget before moving forward (March)
- The workshop proceedings will be published soon
- With help from the coordinating committee and SAC, APS management will prepare a “straw man” proposal (Vision for APS 2017) for presentation at the User’s meeting in May, using the technical and scientific input provided so far
  - Opportunity for extensive user input during the summer
- October 8<sup>th</sup>/9<sup>th</sup> SAC meeting will review a more detailed proposal
  - This schedule could be modified based on response from DOE in March

# Next generation x-ray sources

ANL-08/39  
 BNL-81895-2008  
 LBNL-1090E-2009  
 SLAC-R-917

## Science and Technology of Future Light Sources

### A White Paper

Report prepared by scientists from ANL, BNL, LBNL and SLAC. The coordinating team consisted of Uwe Bergmann, John Corlett, Steve Dierker, Roger Falcone, John Galayda, Murray Gibson, Jerry Hastings, Bob Hettel, John Hill, Zahid Hussain, Chi-Chang Kao, Janos Kirz, Gabrielle Long, Bill McCurdy, Tor Raubenheimer, Fernando Sannibale, John Seeman, Z.-X. Shen, Gopal Shenoy, Bob Schoenlein, Qun Shen, Brian Stephenson, Joachim Stöhr, and Alexander Zholents. Other contributors are listed at the end of the document.

Argonne National Laboratory  
 Brookhaven National Laboratory  
 Lawrence Berkeley National Laboratory  
 SLAC National Accelerator Laboratory

December 2008

## Basic Energy Sciences Advisory Committee February 26-27, 2009 Agenda

Bethesda North Marriott Hotel and Conference Center  
 5701 Marinelli Road  
 North Bethesda, MD 20852  
 Phone: 301-822-9200

Thursday, February 26, 2008		
7:30am - 8:30am	Continental Breakfast	
8:30am - 8:45am	Welcome and Introduction	John Hemminger, BESAC Chair University of California, Irvine
8:45am - 9:30am	News from DOE Office of Science	Patricia M. Dehmer Acting Director Office of Science
9:30am - 10:15am	News from Office of Basic Energy Sciences	Harriet Kung, Director Office of Basic Energy Sciences
10:15am - 10:45am	Break	
10:45am - 12 Noon	Photon Workshop Presentation	Franz Himpel University of Wisconsin-Madison Wolfgang Eberhardt Helmholtz-Zentrum Berlin
12 Noon - 1:30pm	Lunch	
1:30pm - 3:00 pm	Photon Workshop Presentation	Franz Himpel University of Wisconsin-Madison Wolfgang Eberhardt Helmholtz-Zentrum Berlin
3:00pm - 3:30pm	Break	
3:30pm - 5:00pm	Photon Workshop Report Discussion	BESAC
5:00pm - 5:15pm	Public Comment Session	
5:15pm	Adjourn	
6:00pm	Dinner on your own	
Friday, February 27, 2009		
7:30am - 8:30a.m	Continental Breakfast	
8:30am - 9:30a.m	BESAC New Science for a Secure and Sustainable Energy Future Report and Outreach Activities	John Hemminger, BESAC Chair, University of California, Irvine George Crabtree, Argonne National Laboratory Marc Kastner, Massachusetts Institute of Technology
9:30am - 11:00a.m	Photon Workshop Discussion	BESAC
11:00am - 11:30am	Public Comment Session	
11:30am	Adjourn	



## 2008 Supervisor of the Year Award



Jonathan Lang, MM Group Leader in APS/XSD/XOR has been selected as the 2008 PSC Supervisor of the Year.



Nomination Statement: Jonathan is such a down to earth person that you can talk to anytime and he has such a passion for science. You can see it in his everyday work ethic. He also has an open door policy and he always makes everyone feel that you can talk to him about anything. He is always busy, but never turns you away any time that you need to talk. He is understanding when questions or problems arise and he makes sure to find an answer or directs you where to find the answer. He truly makes us enjoy coming to work.

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