

UEC Meeting November 6, 2006

Agenda:

Agenda for Nov. 6, 2006 NSLS UEC meeting

This version as of 5 pm on Nov. 3

08:30	09:15	Executive session and breakfast
09:15	10:00	Chi-Chang Kao, NSLS update
10:00	10:45	Steve Dierker, NSLS II update
10:45	11:00	<i>break</i>
11:00	12:00	Reports/discussion: user meeting planning, cybersecurity, reports on activities by various NSLS planning groups, ...
12:00	13:00	UEC lunch with Sam Aronson
13:00	13:10	Town meeting: welcoming remarks (Chris Jacobsen)
13:10	13:30	Town meeting: NSLS update (Chi-Chang Kao)
13:30	13:50	Town meeting: NSLS II update (Steve Dierker)
13:50	14:20	Town meeting: cybersecurity (Alan Levine, ???)
14:20	14:30	Town meeting: handling nanomaterials (Andrew Ackerman)
14:30	14:50	Town meeting: machine update (Erik Johnson)
14:50	15:00	Town meeting: political education and outreach (Peter Stephens)
15:00	15:15	<i>break</i>
15:15	15:30	Possible followup on cybersecurity with Alan Levine
15:30	16:00	Further discussion on political education and outreach, other outstanding issues
16:15		Target time for adjournment!

Attendees:

Chris Jacobsen, Paul Evans, Cecelia Sanchez-Hanke, Alexi Soares, John Sutherland, Dean Connor, Simon Bare, Daniel Fischer, Jihua Chen, Jeff Keister, Paul Northrup, Howard Robinson, Michael Dudley, Joe Dvorak, Chi-Chang Kao, Kathleen Nasta, Gretchen Cisco

Executive session

- Points of Discussion
- NSLS II update (Paul Evans)
 - As soon as CDR accepted, then accepting proposals for first five beamlines.
 - DOE-funded for construction
 - Walled-off money for construction

- 6-month deadline for beamline proposals
 - 10-page range
 - Second round of beamline proposals expected soon after that.
 - Cost estimates for beamlines
 - ID- \$10 million
 - Damping Wiggler- \$6 million
 - BM- \$4-5 million
 - IR- \$1 million
 - Confident that design currently provides improvements for all energies above 8 eV.
- EFAC update
 - Questions to ask of Steve Dierker
 - What are Program Proposals? Timelines, etc?
- Cybersecurity
 - Al Levine will be at the town meeting then available to us afterwards.
- SpIGs
 - Magnetism?
 - Rearrange to emphasize science?
- Nominating committee
- Users' meeting planning
- "Political" update with Peter Stephens
- Allocation- eliminate?
 - Replace with rapid access.

NSLS Update

- PRT beamline upgrade plans
- Suggestions for SAC members
- Safety
 - Handling of nano-materials
 - DOE labs to define the rules for this.
 - Handling restrictions could affect us.
 - Part 851 Worker Safety and Health Program
 - We have to be in full OSHA compliance by the beginning of next year for this.
 - Unclear how this might affect users
- Cyber-security
 - Experimental floor- how do we get this ok'd with ITD?
 - Defining acceptions
- Budget
 - FY 07 request 40.7 million
- Staffing
 - Some transfers to NSLS-II, some matrixed between NSLS and NSLS-II, new staff will be hired
 - Working with NSLS-II closely to ensure smooth transition
- SAC (scientific advisory committee) meeting Dec 1, 2—topics or discussion
 - Five year plan

- Summary of machine operation and reliability review
- Beamline progress review
 - PRT progress review
 - FB and CU's progress report and summary of scientific staff usage of beamtime
- BES report/ PASS improvements/ rapid access
- Scientific program development
 - Mid-scale instrumentation / energy research proposals
 - Industrial user issues: metric, growth
 - Fostering growth and productivity.
 - How do we measure productivity in industrial beamlines?
- Machine Operation review was done October 9th and 10th.
 - Push for more projects (beyond the 5-year-plan).
- Five-year strategic plan
 - Add machine upgrade projects
- BES report
 - User number 2105
 - Estimated publications for FY06: 900
 - Final publications for last calendar year: 770
 - Operation hours:
 - X-ray ring: scheduled 4817, delivered 4545, unscheduled ops 589.

NSLS II update

- Recent activities
 - Environmental assessment completed and approved
 - Accelerator Systems Advisory Committee, Conventional Facilities AC, Experimental facilities AC, Project AC all met recently.
 - Project A/E (architecture/engineering) selection on schedule for contract
 - Requires CD-I for contracting
 - Solicitation for Construction Management (CM) firm.
 - Requires CD-I also
- New Developments
 - Damping wigglers
 - Previously planned for mix of variable gap and fixed gap
 - Now plan for all fixed gap and available to drive beamlines
 - All 8 now planned for user beamlines
 - Site layout and building design refined
 - CD-I Lehman review
 - Rescheduled from mid-November to mid-December
- Milestones
 - Hope for CD1/CD2a in January 2007
 - CD4a July 2012 Storage ring operational, conventional construction complete
 - CD4b July 2013
- IR from bending magnets
 - Order of magnitude gain in mid-IR at about 4000 cm⁻¹

- Otherwise similar brightness to NSLS-IR lines
- Mechanisms for beamline development
 - Beamline Advisory Teams
 - Facility receives funding and designs, constructs, and operates beamlines
 - Beamline Development Teams
 - User group receives funding and design, constructs, and operates beamline
- Experimental facilities trust fund
 - Need to baseline the project and fix cost estimates before the selection process for project beamlines will be complete.
 - Create EFTF that will fund the beamline activities within the project.
 - This would define the first five (or so) beamlines for the facility and set aside the funding to make these within the initial project money
 - Beamlines, front ends, and Ids
 - part of construction project itself\
 - Total trust funds \$61 million (burdened, escalated, contingency)
 - About 8% of the total project budget.
- Tentative process & schedule
 - Mid 2011 first access to ring building
 - Mid 2012 1st beam
 - Mid 2007 preliminary LOI's for BAT and BDTs
 - BDTs selected by mid-2008, submit proposal for external research by mid-2009, CDR by mid 2010, TDR by mid 2011, construction starts mid/end 2011.
 - MIE (Major investment (?) equipment) start with these around beginning of 2009.
 - MIEs are DOE funding
 - Some currently MIE projects are in the \$60 million range.
- LOI Kick Off meeting (tentatively "planned")
 - Present design
 - Workshops
 - Scientific opportunities
 - Beamline technical issues
 - Beamline design guidelines
 - Describe beamline development process
 - Issue call for letters of intent.
 - Tentative meeting time: March

Reports\discussion

- Users' meeting planning
 - Joint meeting with CFN
 - May 21-23
 - Workshops on day 1 and 3
 - Main day, day 2

- Plan for a “talent show” on banquet night.
- CFN ribbon-cutting ceremony (potentially)
- Not taking over Berkner for food this year
- Plan for 6 separate workshops
- Peter Stephens agreed to be the sponsor chair.
- Nominating committee
 - What communities should be represented here?
 - Call for volunteers to the nominating committee:
 - Simon Bare, Paul Northrup, Chris Jacobsen
 - Paul Evans moves to nominate the three above, Jiuhua Chen seconded, went to discussion, no discussion, went to vote and motion for Simon Bare, Paul Northrup, and Chris Jacobsen to the Nomination committee passed.
- Users’ admin office
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Lunch with Sam Aronson

- Discussion points
 - NSLS II
 - CDR Great
 - LOI workshop- need date
 - User office organization
 - Lab implementation of cyber-security, etc.
- Chi-Chang has been asked to help determine future role of JPSI
- Bulk of users aren’t aware of the progress of the NSLS-II project.
- We expressed the importance of setting the date for the LOI meeting as far in advance as possible.
- Dr. Aronson expressed concern about the transition of staff from NSLS to NSLS-2.
 - Value in looking into the nuclear physics program here?
 - Tom Ludlam (ludlam@bnl.gov -- Physics Dept. Associate Chair) key player in transition from AGS to RHIC.
- Cyber-security
 - DOE can audit us against our own plans
 - DOE penetration test team easily hacked the system from onsite.
 - BNL is operating on a month-to-month review for allowing cyber-access.
 - Our authority to operate is in limbo.
 - Useful to have anecdotal comparisons to ALS and other govt labs.
- JPSI, Chi-Chang has been asked to head a scoping group.

Post-town meeting

- PRT beamline upgrade plans
 - Part of NSLS PRT 5-year plan.
 - Looking for volunteer to go around and find PRTs to give a few sentences about their future upgrade plans
 - Howard Robinson volunteers to help with this.

- Suggestions for SAC members
 - Leaving Ellenberger, Penner-Hahn (?), and Amzel (?)
 - Staying Brock, Kramer, Thomlinson, Isaacs, Hettel, Kramer, Mochrie
 - Suggestions add representation from:
 - imaging
 - industry
 - IR
 - catalysis/energy
 - Earth/environmental sciences
 - Call for suggestions to be added for the above mention SAC positions.
 - Next SAC meeting Dec 1,2
- Template time
- Howard Robinson proposes the elimination of template time (transform template times into operations time). Alexi Soares seconds.
 - Discussion:
 - Problem with chaos in scheduling users
 - Suggestion to use studies time to do template.
 - Template time had generally happened during weeks with no studies.
 - Hesitation due to loss of flexibility.
 - Determine new way of accommodating special needs.
- VUV timing mode
 - Single bunch mode
 - We suggest more advance notice.
 - Express extreme displeasure of a confused sort.
- Cyber security
 - Waiting for input from users
 - What are limitation that we are running into?
 - Facility beamlines *have* to be inside the firewall.
- SpIG's
 - Should we add, rearrange, drop some, etc?
 - Possibility of using SpIGs to assist with the LOI process for NSLS-2.
 - Committee of three people to decide by next UEC meeting what SpIG reorganization we might recommend as a group.
 - Sanchez-Hanke, Dudley, Jacobsen, and Northrup volunteer to be this committee.
- Allocation (eliminate)
 - Transition to *only* rapid access.
 - Other synchrotrons
 - Beamtimes scheduled for long ahead
 - And rapid access is used to "fill in" times.
 - No UEC action needed for this.
 - We agree that it's more of an issue to be discussed at the SAC meeting.
- List of conferences from March/April
 - APS

- MRS
- ACS
- Biophysics
- AC Crystal
- SRI
- Decide to hold next Town Meeting on Thursday, February 1st.