

SNS HFIR User Group (SHUG) Executive Committee Minutes
Archived at <http://neutrons.ornl.gov/users/shug>

Teleconference held May 7, 2013, 1:00pm EST.

Present

- Executive Committee: Greg Beaucage (chair), Dave Belanger, Fred Heberle, Peter Khalifah, Antonella Longo, Hanno zur Loye, Yan Gao, Malcolm Guthrie, Tyrel McQueen, Cora Lind
- Guests: Kelly Beierschmitt, Mike Simonson, Paul Langan, Steve Nagler, Laura Morris Edwards, Al Ekkebus

Absent

- Executive Committee: Michael Mackay

Minutes submitted for review June 2, 2013 by F.A. Heberle.

ACTION ITEMS:

- Greg: send thank you email to neutron advocates at BESAC meeting (carry over from last meeting)

ATTACHMENTS and WEBSITES of interest from the teleconference:

- No attachments

AGENDA

1. Roll call
2. Approval of minutes from March meeting (*approved*).
3. Approval of current agenda (*approved*).
4. Action items from March meeting
 - a. Greg: send thank you email to neutron advocates at BESAC meeting.
Carry over to May.
5. Updates
 - a. Kelly's updates/comments
 - i. *BESAC meeting re: user facilities.* BESAC working group met in Feb. Good outcome for SNS, HFIR and 2nd target station (BESAC supported as critical to scientific future). HFIR important, but isotope mission should upgrade it to critically important.
 - ii. *NAB meeting (April 2nd, 3rd).* NAB members included directors of JPARC, ISIS, ILL; Doug Tobias, Bernhard Keimer from FRM-II, Joel Mesot from PSI, Gabe Aeppli, Roger Pynn, Jack Carpenter, Collin Broholm. Look at science strategy, including thoughts on 2nd TS and tech decisions needed to move forward. With the addition of a long wavelength 2nd TS at 10-20 Hz, no other source in world could cover the scientific space that we cover. We need to

update our scientific strategy to consider long term optimization across three sources, so we can respond when DOE directs us to do so w/ design of 2nd TS. Money will likely flow in 2015, with a 2023 target date for operating instruments. Another suggestion from NAB: gather scientific leaders (*not* neutron people, but rather academy members e.g.) from around the US into a small session to discuss where neutrons (over the next 5-10 yrs) could help close existing scientific gaps. Science leaders at ORNL are organizing this meeting. All of this leads to an updated science strategy that Kelly will deliver to BES in Aug. Kelly will solicit input from SHUG in the upcoming months.

iii. *Accelerator advisory committee*. On site now, working w/ Kevin Jones. DOE wants us to ramp up to 1.4 MW ASAP. Kelly wants spare targets before we do this. Possibly next summer before this happens: at this point we'll hopefully have 2 jet flow targets and 2-3 standard targets. End of May, Kelly will discuss this strategy with DOE, and they'll want to know what the user community thinks of this. Hanno: increasing the flux is positive and always welcome.

b. SNS/HFIR facility/instrument updates (Division directors)

i. Steve Nagler (Quantum Condensed Matter).

1. HFIR starting up, SNS running, lots of users, things are going well on instruments. Proposal to look at plutonium-containing materials, has taken over a year to get all the approvals. Now being run at SNS, but can't afford to do another one any time soon. However this effort demonstrated that we can go to some lengths when necessary to do something special.

ii. Paul Langan (Biology and Soft Matter).

1. Community outreach and scientific updates: Last week, a team of 7 beamline scientists traveled to NIST to spend a day with their scientists looking for overlap, particularly in software, user program, labs. Previous week was a workshop here (100 attendees) on neutrons in structural biology, report coming out about this soon. Two symposia sponsored at ACS meeting in New Orleans.

2. Instrument updates: BioSANS work during shutdown, several small upgrades to detector and detector tank. IMAGINE continues commissioning, this cycle with friendly users from NSF consortium. Currently preparing 3

pubs from data collected on IMAGINE. MANDI continues construction and commissioning, currently collecting data, and have collected preliminary data on beta-lactamase.

- iii. Mike Simonson (Chemical and Engineering Materials).
 - 1. Langan and Simonson had a discussion with Laura about an out-of-cycle call for new user instruments coming into the program. Good results from experiments currently being done on TOPAZ, good signals back from VISION, hoping that calibration procedure gets worked out so we can do science in the fall. End of month at Berkeley, workshop sponsored by new energy storage mats hub supported by BES, looking broadly at using user facilities in helping push battery science and technology forward. Some things coming out of this that would be useful to discuss at the user meeting in Aug. Greg: there will be a session on battery science at the meeting. Mike: this will be timely, can give some feedback in the next SHUG teleconference about the workshop.

c. User office updates (Laura)

- i. Just completed 2013B call, 580 proposals combined, 268 accepted (46%, about normal). Today is startup for HFIR cycle 447. User count for SNS (as of end of March) 388, 235 at HFIR.
- ii. Supplemental call this summer for TOPAZ, IMAGINE, possibly VISION and other instruments. No full SRC-type review, outside review but no committee on site to rank. Next call for cycle 14A will close Sept. 11, next SRC meeting Oct. 21-22, for January-June 2014.

6. 2013 ORNL User Meeting (Greg to lead discussion)

- a. *Greg.* Week of Aug. 12th. Planning is progressing well. Currently inviting speakers and working out the details of the workshop. The SHUG committee will get travel reimbursement but need to participate (run a workshop e.g.). We continue to have meetings at 1:00pm on Fridays, anyone who wants to participate is welcome.
 - i. Al will draft a hold-the-date announcement for Greg and Tony to consider, then the planning committee can consider for discussion.
 - ii. Q, Steve: Is there a welcome and a closeout? 15 min at beginning and end. A: Greg will put something in the schedule.
 - iii. Q, Yan: regarding travel assistance. Up to \$1200 per speaker, is this an upper limit? A, Greg: there is a total budget. Cora: ORNL books the flights, \$1200 is more of an estimate of a reasonable

number that covers it. Yan: is this applicable to both workshops and sessions? A: Yes. Yan: does the workshop organizer have flexibility? Greg: need to know details about who the people are. If there are people who are more expensive notify Greg. Laura: \$1200 is just a budgeting number. If they are invited, ORNL will pay, and the people don't need to know this internal \$1200 number.

7. SHUG election update (AI)
 - a. Election will be soon, ballot system much like the last few years. About 8-10 people applying for four 3-year slots and one 18-month slot. AI will pass the information out to Greg and Tyrel, then send out to user community for voting. Close hopefully the end of the month with results announced first week of June. 3.5 weeks for voting, with reminder sent out after two weeks. Greg: strong response to request for nominees.
8. Upcoming events (AI)
 - a. June 3-5, *New Directions in High Pressure Neutron Research*.
 - b. June 7-8, *Next steps at POWGEN*.
 - c. June 17-18, *3rd Annual Neutron Scattering for Novices* workshop here at ORNL. Roughly 50 people coming in, sponsored in part by JINS and EPSCOR.
 - d. June 24-28, *4th Graduate Course on Neutron Scattering Applications in Structural Biology* (Flora Meilleur). Last year had 15 people, expecting about the same. Good hands-on course.
 - e. *Neutron/X-ray Summer School*. Argonne Aug. 11-18, ORNL Aug. 19-24. 239 applicants, decisions will be made on Thursday of this week. 3 hour teleconference to determine rankings of applicants (Bryan Chakoumakos and Greg Smith, along with 2 people from Argonne). 60-70 will be selected to attend. Over 100 people at the lab participate in this, very labor intensive (17 instruments participate).
 - f. Aug. 12-15, *Neutrons and Nano User Meeting*.

Next telecon date: Tuesday June 4, 2013, at 1:00pm EST