

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

Teleconference held July 2, 2013, 1:00pm EST.

Present

- Executive Committee: Tyrel McQueen (chair), Greg Beaucage, Dave Belanger, Hanno zur Loye, Cora Lind, Peter Khalifah, Malcolm Guthrie, Fred Heberle, Brad Lokitz, Yang Zhang
- Guests: Kelly Beierschmitt, Thomas Proffen, Paul Langan, Mike Simonson, Laura Morris Edwards, Al Ekkebus, Jaime Fernandez-Baca

Absent

- Executive Committee: Michael Mackay, Yan Gao, Claire White, Morten Ring Eskildsen, Andrea Marcinkova, Antonella Longo

Minutes submitted for review August 1st 2013 by F.A. Heberle/ B. S. Lokitz. Accepted August 6th 2013.

ACTION ITEMS:

- Fred: Distribute the NAB report to the SHUG EC

ATTACHMENTS and WEBSITES of interest from the teleconference:

- No attachments

AGENDA

1. Roll call
2. Approval of minutes from June meeting (*approved*).
3. Approval of current agenda (*approved*).
4. Action items from June meeting
 - a. Greg: send thank you email to neutron advocates at BESAC meeting (carry over from last meeting)
 - b. Kelly: follow up with the SNAP instrument scientists to find out the upgrade path for the detector fix.
5. Updates
 - a. Kelly's updates/comments
 - i. *Summer outage update*. SNS, ongoing work on multiple instruments (see Division Directors' updates). HFIR in the final two weeks of current cycle.
 - ii. *Moniz visit*. Toured HFIR and SNS. Very pleased with what he saw. Little time talking about management—introduced him to the science and user community and let them talk about science. Moniz was involved in initial planning of SNS, and was involved in giving the Nobel Prize to Clifford Shull. Met with local

politicians, talked about importance of neutron programs to the US economy.

- iii. *Neutron Advisory Board (NAB) Report*. Charge this year was to help us consider the future state of neutron sciences in the US, and the role of ORNL in shaping that future. Talked about what kinds of science would require the capabilities of a long-wavelength 2nd SNS Target Station. Board's recommendation: we should seek to optimize our instruments around 3 unique sources: (i) HFIR gives us flexibility in cold and thermal neutrons; (ii) 1st SNS station at 60 Hz tailored to hard condensed matter; (iii) future 2nd SNS Target Station (short-pulse long-wavelength). The scientific space covered by these sources may never be achieved again. Very direct in telling us to build the new target station, then optimize instrument upgrades across these 3 sources. This will give unparalleled neutron science capability. Kelly will share the report with the SHUG EC and is looking for comments. **(Fred action item: distribute the report to EC.)** ORNL has to be an organizer of the user community, but the user community needs to set the vision for the next decade. Based on this philosophy, we're preparing a series of workshops to occur over the next 24 months, where the scientific leadership (including many early career people) will weigh in on the science that they can't do today, but want to be able to do. Also want to reach out to non-neutron users who could benefit from neutrons. We will be updating the calendar of events in July to reflect these workshops. Future agenda item: discuss this calendar of events with SHUG for input. Q Tyrel: What about a thank-you letter to BESAC? A Kelly: After EC has looked at the NAB report, Kelly suggests that we consider (i) sharing that report with BESAC (Kelly needs to think this through), but (ii) acknowledging the contents of the report and the support that we got from BESAC in February. This might be an opportunity for SHUG to endorse the results of the report, and share the report with BESAC and DOE.
- iv. *Special request for the August meeting*. If possible, get some of the young superstar scientists attending this meeting do a quick 3-5 minute videotaped interview, where they talk about the science they're most excited about. Laura has been asked to figure out how to get a cameraperson to interact with the users (either self-identified or recommended). Need a handful of people for this (5-10). Cora suggestion: do this during the breaks between sessions.

- b. SNS/HFIR facility/instrument updates (Division directors)
 - i. Paul Langan (Biology and Soft Matter).
 - 1. Last week, Neutrons in Structural Biology workshop. Commissioning of IMAGINE going well, have collected high profile data sets from important proteins. BioSANS, have collected the first GI-SANS data from a membrane. MANDI, had to replace a guide, but commissioning is proceeding. All other instruments good.
 - ii. Jaime Fernandez-Baca (Quantum Condensed Matter).
 - 1. High pressure workshop first week in June, 80 participants. HFIR reactor is running until July 12. Productive cycle, including HB-1 upgrades. SNS, oscillating collimator installed at ARCS, available for users in next cycle.
 - iii. Mike Simonson (Chemical and Engineering Materials).
 - 1. Major program during outage is adding 7 detector modules to POWGEN—should double data acquisition rate for a lot of the experiments. Bit of a hiccup with the collimator, but that is going to be repaired. Should be on schedule for restart in August.
 - 2. Recent POWGEN workshop (many people participated in both this and the high pressure workshop). Got good feedback regarding the instrument configuration that will be needed going forward, as the powder community matures. Workshop report is in, should be a version available by the end of the month that will be shared with the community.
 - 3. Working toward upgrade of imaging capability at HFIR: new detector system on order, will be installed this Fall. Better resolution and field-of-view on CG1B. TOPAZ: crystal refinement on large unit cell crystal, organic with 33 atom% hydrogen (standard sample used at other sources). Good results, gives confidence for the Fall users.
 - 4. New development: Timmy Ramirez-Cuesta has joined as group leader for the spectroscopy group, supporting VISION, USANS, LR, and BASIS.
 - iv. Thomas Proffen (Neutron Data Analysis and Visualization).
 - 1. One instrument running next gen software (HYSPEC). Similar test done on SEQUOIA that helped uncover some things that needed to be fixed. Have met with VISION team to roll out ADARA on this instrument as well

(currently takes 9 hours to read a data set). During outage, meeting all the instrument teams separately to look at improvements to instrument controls (from user interaction, down to how sample environment talks to the instrument).

- c. User office updates (Laura)
 - i. 3rd annual Neutrons for Novices took place in June in conjunction with JINS. 2 day program aimed at professors who have never used neutrons before. About 50 people, got to see experiments in progress and data reduction—very successful.
 - ii. If anyone on the EC did not get the current call (sent to ~10,000 names), let Laura know. Posters are up and call is open. Call closes Sept. 11, SRC meets Oct 21-22, notifications will go out by Nov. 1. Supplemental call for IMAGINE, TOPAZ, and VISION underway, proposals due July 31.
 - iii. Unique user numbers as of end of May: 515 for SNS, 272 for HFIR. June numbers will go up this week.
- 6. SHUG election update (Greg, Tyrel, and Al)
 - a. Incoming EC members
 - i. Regular 3-year term (July 2013-June 2016): Claire White, Morten Ring Eskildsen, Brad Lokitz, Yang Zhang
 - ii. Postdoc 1.5-year term (July 2013-December 3014): Andrea Marcinkova
 - b. Outgoing EC members: Cora Lind, Malcolm Guthrie, Peter Kalifah, Antonella Longo, Fred Heberle
 - c. Replacement for Michael Mackay
 - i. Bylaws don't account for this. Tyrel suggests taking the person who received the next higher number of votes in the previous election, to serve the remaining 18 month term and be eligible for reelection. Greg seconds. This person will not be eligible for Vice Chair or Secretary. Cora: At some point the EC needs to address this in the Bylaws (agenda item for August). Everyone agrees to appoint Robert McKenna to fill out Michael's term.
 - d. Selection of Vice Chair and Secretary for July 2013-December 2014
 - i. Cora: let's do this next time since some people are gone. Tyrel will send out an email introducing new members. Al has requested information and picture from new members, will send this out when we have it. We'll ask the new members first if they want to serve as an officer, then have an email election.
- 7. 2013 ORNL User Meeting (Greg and Tyrel to lead discussion)

- a. ORNL sent out the formal invitations about a month ago, responses are coming in. ORNL will make all travel arrangements. This requires new category of site access as a visitor, this is taking some time.
 - b. People don't have to stay the full 4 days, can stay whatever days are convenient. Q: What about the new members? Al will send them invitations as well.
 - c. Two DOE people will be here, what to do about their presentations? Al will talk it over with Greg and Tyrel to figure out scheduling for this on Tuesday morning, just before the first plenary. Tyrel: No global announcement yet? Al: it has been sent out, and we will start promoting it more. Registration is open. Al suggests that everyone forward changes in the agenda to him so that he's the only one updating the agenda.
 - d. Agenda is on the "News and Upcoming Events" part of the website.
8. Upcoming events (Al)
- a. See the website.
 - b. Jaime is the local contact for the next ACNS meeting, first week in June 2014.

Next telecon date: Tuesday August 6, 2013, at 1:00pm EST