

SHUG-EC Conference Call: Tues. June 9, 2020

Online:

- (I) ORNL: Adam, Crystal, Hans, Jaime, Janell, Eugene, Jay
- (II) External: Adrian, Martin, Danielle, Geneva, Jarek, Dvora, Ally, Olivier, Daniel

Document approval:

- Minutes from May 2020 conference call: approve
- Agenda for June 2020 conference call: approve

1. Recent proposal call update

- 2020-B results will be sent out on June 15th or thereabouts
- Approved proposals will run as remote user experiments or when the GUP resumes
- We discussed sharing proposal call statistics online. There was a debate about sharing stats for single calls vs average stats for multiple calls.
- There are about 20 COVID-19 neutron scattering proposals in our system now. Some of these proposals have run and others are scheduled later. These proposals span 11 instruments at the SNS and HFIR.
- Jarek wants a list of biophysics neutron scattering proposals submitted to ORNL. This information would help him to explain how important the technique is to this community. Hans suggested making this case using published literature rather than proposal titles. Crystal requested a written request from Jarek that she can discuss with DOE.

2. Remote user experiments

- Instrument teams played a major role in identifying remote user experiment candidates
- Many experiments that cannot be run with remote user participation will likely be delayed until the 2021-A beam period
- Users should look at data in real-time during remote user experiments to help inform future data collection decisions. This expectation will be made clear to the users.
- ORNL can receive samples that are shipped to us

3. Update on data plan and SANS software

- Finished acceptance testing for SANS data reduction software (GP-SANS, BIO-SANS, and EQ-SANS) and it is now available for users. This software was released on May 26. It generates an instrument independent I(Q) vs Q curve.
- SANS instrument teams have reduced data from the last several months and verified that the software works correctly
- The SANS data reduction process will eventually be published in a journal article, so it will be clear to the community exactly how it works
- Reduction software for HIDRA is being worked next – hopefully it will be completed in a few weeks. Software enables peak fitting and stress-strain mapping. This software will have limited applicability for VULCAN.

SHUG-EC Conference Call: Tues. June 9, 2020

- The data reduction plan is being revised now as capability gaps are identified
- Ally prefers a user guide for learning software rather than watching videos, and Hans pointed out that both teaching tools are complementary

4. Computational instrument scientist update

- We have filled 6 out of 8 available CIS positions. The six positions have been staffed as follows:
 - (1) Indirect spectroscopy: Yongqiang Cheng
 - (2) Imaging: Jean Bilheux
 - (3) Direct spectroscopy: Andrei Savici
 - (4) Reflectometry: Mathieu Doucet
 - (5) Powder Diffraction: Yuanpeng Zhang
 - (6) Single Crystal Diffraction: Zachary Morgan

The SANS position is still open, and it will be reposted. An offer is being prepared for the engineering materials position.

5. Next conference call: July 14, 2020, 4 PM