

SBN OVERSIGHT BOARD

MAY 2018

Minutes of the 1st Meeting of the SBN Oversight Board (Fermilab, May 15, 2018)

Attendees:

S. Brice (Chair)
S. Centro (ICARUS Deputy spokesperson; remote)
A. Ereditato (Switzerland; remote)
J. Evans (UK)
O. Palamara (SBND Co-spokesperson)
C. Rubbia (ICARUS Spokesperson)
D. Schmitz (SBND Co-spokesperson)
M. Shaevitz (US NSF; remote)
R. Wilson (US DOE)

Fermilab: C. Keaty (Secretariat), P. Wilson (SBN Program Head)

Apologies Received: S. Bertolucci (INFN, Italy), M. Nessi (CERN)

Action Items

1. Board members agreed to notify chair of desire to include others, as observers, in subsequent SBN-OB meetings.
2. Chair will consult with Bonnie Fleming and Sam Zeller regarding data sharing.
3. Chair will consult on meeting dates and schedule for the next year to maximize participation.
4. Chair will ask Gina Rameika to serve as the Interim chair of the SBN Institutional Board
5. The Spokespeople will plan an SBN Collaboration meeting for the fall of 2018.
6. The Cosmic Ray Tagger and Cryogenics Working Groups will be formed.
7. A Common Computing Working Group should be formed soon to address data storage, management and distribution.

Introduction and Discussion of Oversight Board Purpose

S. Brice, SBN Oversight Board Chair, welcomed the members and participants to the First Meeting of the SBN Oversight Board, and reviewed the morning's agenda. This Board is internal to SBN and provides a key forum for cross-collaboration communication or agreement development on issues relevant to construction, commissioning, operations, data management, and analysis.

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The Board focus will be on common items between ICARUS and SBND. The small size, representative of all institutions in the SBN program, will be a good place to develop agreements.

SBN Project Update, P. Wilson

P. Wilson, SBN Department Head, provided an SBN project update from the last month, following the previous update at the Resources Review Board meeting on 11 April, provided by Cat James.

- Personnel changes include Aria Soha (FNAL ND) replacing Fernanda Garcia (FNAL AD) as the ICARUS Installation Coordinator in late April, Angela Fava (FNAL ND) becoming Deputy Technical Coordinator for ICARUS, and Brian Rebel stepping down as the SBND Technical Coordinator at the end of CY2018.
- Approved and upcoming change requests were shared, and the schedule was frozen as of 4 May in preparation of the Director's review on 26-28 June. Gina Rameika will chair the review and will focus on schedule.
- ICARUS and SBND key milestones were reviewed. The collaboration is working towards a more accelerated schedule.

Decisions, S. Brice

Board members agreed to hold quarterly meetings. Chair will consult on meeting dates for the next year to maximize participation.

The full Board agreed to name Gina Rameika as the Interim SBN Institutional Board Chair, whose sole responsibility in that role will be to run an election for the permanent IB Chair.

- Carlo shared that there are INFN requirements to be followed with respect to IB participation for ICARUS. S. Brice suggested that ICARUS form the ICARUS IB as soon as possible, which will clarify some of the identified issues and inform this group for better discussion.
- In cases where an institution is on both ICARUS and SBND there should be only one SBN-IB member from that institution.

The Spokespeople will plan an SBN Collaboration meeting for the fall of 2018. O. Palamara and D. Schmitz will organize and keep C. Rubbia informed. Suggested dates are either just before or just after the DUNE Collaboration meeting.

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Agreements and MOUs, S. Brice

An MOU between the major contributors to the SBN program is being drafted, with the intent to be signed by the Lab Director and the Funding Agency Representatives. The draft MOU will be provided to the SBN-OB for review.

An agreement on data sharing and joint analysis will be needed between ICARUS and SBND.

Joint Working Groups, O. Palamara

SBN Joint Working Groups are needed to co-develop many key aspects of SBN operations and physics analysis. O. Palamara provided details on the three existing working groups and proposed two new working groups:

- The Cosmic Ray Tagger Working Group would be formed to compare the hardware components and performances of the two systems with a goal to design, as much as possible, common solutions for CRT triggering and calibration of the liquid argon with the CRT.
 - R. Wilson will consider other candidates that may be able to join this Joint Working Group as a convener.
 - Agreed by all that this Working Group is necessary.
- The Cryogenics Working Group would be formed to continue the exchange of information between different teams in charge of the build and support/operations of the cryogenic systems.
 - Requested Marzio name a person from CERN to be a second convener of this Working Group.

M. Shaevitz commented that different experiments will be working on the reconstruction somewhat separately, and it would be good to have a group to coordinate those efforts and makes sure outputs from the reconstruction could be used to do a combined analysis. O. Palamara stated that much of that work is being done by the SBN Analysis Group; however, reconstruction could be a sub-group of that Working Group.

A common computing working group may be useful to determine the model in which data will be shared to allow analysis. O. Palamara commented that this is being discussed, but a candidate to lead the effort has not been identified. Due to the expected data volume from ICARUS and to assure Fermilab's readiness, this group should be formed soon to address data storage, management and distribution. It is vital that people from MicroBooNE are approached for relevant information and experiences.

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Issues in Data Sharing and Joint Analysis

The Board did not voice objections to unlimited data sharing, of both raw and processed data, from the moment it is taken. However, it was suggested that raw data presents technical challenges, so there may be an advantage for a joint working group to collectively determine a consistent format to share with all.

It should be given consideration that unlimited data sharing could present complicated issues when the same data is used in different ways.

Discussions will continue on this issue going forward, and a high-level agreement will be decided by the SBN-OB before handing off to the applicable working group. This will take some time to accomplish.

Future Meetings

Chair will schedule the next SBN-OB meeting in conjunction with the fall SBN Collaboration meeting. Dates and times will also be determined for the next 3-4 meetings, continuing with a morning meeting to accommodate international participants. Full participation will be important, whether in-person or via phone.

The SBN-OB meeting was adjourned.