

MICE Executive Board

7th April 2017; 15:00 BST

Present: KL, MP, DK, CB, JC, PS, DR

Notes

1. Introduction: KL

No particular introduction.

2. Minutes and actions: All

Notes accepted.

- **KL:** Will revisit the MICE contributions to the JINST volume.
 - **Stands.**
- **KL, PS:** prepare proposal for CF for 2017/18, circulate to CB by email, converge in advance of the FAC on 08Mar17.
 - **Done.**
- **CW:** with ABr and J. Boehm, would make a robust plan for magnet cover.
 - **Stands.**
- **CW:** check status of Hall probe readout.
 - **Stands.**
- **KL:** Check status of data processing requirements of emittance paper with V. Blackmore.
 - **Done.**
- **KL:** Invite A. Dobbs to support DR in the preparation of the MAUS paper.
 - **Done.**
- **PS:** Prepare an SoI on the upgrade in time for it to be considered by the STFC Accelerator Strategy Board on the 22Mar17.
 - **Done.**
- **KL:** Propose dates for collaboration meetings in 2018.
 - **Stands.**

3. Project Manager's report: CW

Shutdown work has been going well with many tasks being completed. Tracker cryostats 1 and 2 have been refurbished. Early on Monday (03Apr17) cryo 4 failed. Cryos 3 and 4 will now be warmed up and serviced. Work on the LH2 absorber installation continues. In re-evaluating the failure modes the effect of a catastrophic failure of the LH2 window was considered. The new analysis showed that the differential pressure generated on the outer-vacuum vessel of the FC would cause a displacement that might lead to the welds on the end flanges being compromised. This is a breach of the safety case and must be addressed. Remedial actions have been agreed and are now being prepared. In view of the nature of error found in the original analysis it has been agreed that another HAZOP will be carried out. An external consultant has been recruited to chair the HAZOP review. Every

effort will be made to avoid additional delays to the schedule being caused by the HAZOP.

4. Preparation for Cycle 2017/02: SB

In view of the preparation of the LH2 system it is now planned to start shifts in the second week of Cycle 2017/01. Two weeks (weeks 2 and 3) of the User Cycle will be staffed with one shift per day to allow data taking for calibration and alignment. 24/7 operations are planned for the last shift block of the Cycle when it is hoped that the LH2 system will be available.

5. Feedback from MPB/RLSR in March: KL/All

MP reported that DOE OHEP is preparing a letter to be sent to C. Jamieson and G. Blair to document the present US funding situation for MICE. MP was not sure of the state of preparation of the letter. He reported "chaos" in the budget planning caused by uncertainties in the public finances; the DOE is being asked to do various budgeting exercises.

The positive comment from the MPB on the importance of the cooling demonstration was welcomed.

The MPB action to maximize publications was discussed. The proposed additional technical papers were agreed. In addition, a paper on the field-mapping activity was proposed.

It was agreed to document all MICE papers in the MICE-UK OsC documentation (Action **PS**).

PS had submitted SOI to STFC for the upgrade of Step IV to deliver a cooling demonstration. The STFC process is that feedback would come first from the ASB. Then, if the feedback was positive, the document would be sent to SB.

Other sources of money were discussed. KL will continue to pursue..

6. Paper status and planning for next wave of papers: KL

A response to the demo-paper's referees had been sent to PRAB.

PS reported that interviews for replacement for R. Bayes had taken place on the 06Apr17. John Nugent had been appointed with effect from 24Apr17. JN will take forward the scattering paper analysis as soon as his appointment starts.

The publication plan presented at the VC was discussed and agreed.

JC commented on the contribution to the VC from A. Dobbs on the tracker analysis. It was agreed that there was more work to do to understand the efficiency, momentum scale and track matching.

7. MICE cooling demo in Protvino: KL

KL summarised the papers that had been posted on the meeting page. It was agreed to invite A. Zaitsev to Belgrade and to arrange a call after Easter. DK urged the consideration of an internal gas-jet target as such a target has been used with success elsewhere.

8. Common Fund: PS

As agreed at last CB meeting, now need to send letters to collaborators to get census. Action **PS**.

9. **Speakers Bureau: VP**

VP reported by email;

1. Melissa slides at IOP, approved by the referee have circulated yesterday for MICE wide scrutiny. Talk is Apr 8
2. C. Booth's slides at the other IOP meeting in Sheffield have too. Talk is Apr 13.
3. The expedition to IPAC will consist of Rogers, Franchini, Hunt. The three are working together. Referees, being appointed, should receive manuscripts two weeks before the submission due **Wed, May 10 at midnight CET**.
4. The fate of our two abstract at EPS is still not known. I hope to get a talk and a poster.
5. Dan has submitted an abstract at the mysterious Collaborative Conference on Beam Physics (CCBP).
6. Dan and I are also preparing contributions to Cool 17 in the Fall in Julich. More later.
7. Tanaz will present her work at New Perspectives 2017 (FNAL June). She will also present at APS DPF (FNAL August). The SB did submit a general abstract, in addition. Who could take care of that? (Ao Liu, perhaps? 01May17). We noted that AL had taken alternative employment from 01May17 and so another candidate would have to be found.

10. **Next collaboration meetings:**

- **Belgrade: CM48 27—29 June 2017**
- 2017:
 - CM49 2nd to 4th October 2017 (during the run ... change)
- 2018:
 - **KL, CB** to propose.

11. **DONMs:**

05May17

12. **AoB**

- It was agreed that meetings on nuSTORM could be communicated through the MICE mailing list.

Summary of actions

- **KL:** Will revisit the MICE contributions to the JINST volume.
- **CW:** with ABr and J. Boehm, would make a robust plan for magnet cover.
- **CW:** check status of Hall probe readout.
- **KL:** Propose dates for collaboration meetings in 2018.
- **PS:** Document all MICE publications in the MICE-UK OsC paperwork.
- **PS:** Initiate census for 2017/18 Common Fund.
- **KL, CB:** Propose CM dates for 2018.