

Minutes of the MICE Collaboration Board held on 2nd March 2006 at Osaka University

Present

CB Chair – D. Kaplan

Spokesman – A. Blondel

Deputy – M Zisman

Technical Coordinator – P. Drumm

FNAL – A. Bross

Glasgow – K. Walaron

Illinois Inst. Tech. – Y. Torun

Imperial College London – K. Long

INFN Napoli – V. Palladino

KEK – S. Ishimoto

LBNL – D. Li

Liverpool – R. Gamet

Osaka – Y. Kuno

Oxford – W. Lau

Sheffield – C. Booth

1) Approval of Minutes of 23rd October 2006

The minutes of the previous meeting were approved.

2) Spokesman's Remarks (Alain Blondel)

Alain reviewed the preparations required for Steps I and II. For Step I, scheduled for 1st April 2007, the positions of TOF0, CKOV1 and size and detailed segmentation of MUCAL must be finalised. For the beam line, the target tests in May/June show a tight schedule and restricted manpower. There is progress on optics, but more required and again the manpower is limited. The position and mechanics of the diffuser are fixed, but thickness still to be decided. Decisions are required on TOF, Cherenkov(s) and MUCAL, dependent on test beam results. Purchasing is underway for the first spectrometer solenoid, but funding questions remain for the second. There had been a great effort for the KEK Tracker tests with much progress and a greater understanding of the needs for strict QC and QA. The trigger is still not defined, and further progress is required on controls, monitoring and DAQ. DAQ should be a major subject for the next Collaboration Meeting, and finalised at the following one. The software for particle identification and tracking must be adapted to the geometry of Steps I and II.

Video Conferences will concentrate on shorter status talks, involving more people. It was proposed that in future years we will hold two Collaboration Meetings at RAL and one abroad each year, Summer 2007 being in Japan with NuFact07.

Plans for phase II funding are summarised in MICE note 137, with an aim of advancing Step VI. For the second solenoid, Japan has submitted a proposal for \$100K to be decided soon; the UK will allocate £100K for solenoid procurement; in the US, FNAL will provide tracker electronics in return for MICE support for testing & commissioning, releasing funds for solenoid procurement. Funding for the AFC module is sought via a UK bid for continuation, to be submitted in June/July. For the RFCC module, the Swiss bid was not approved; a UK consortium is bidding for funds to understand and develop high gradient RF cavities. Mississippi and NFMCC have submitted proposals to NSF & DOE for funding for the Coupling Coils.

In several areas, manpower is tight. New collaborators who can bring additional staff and effort will be welcomed!

3) Application from Kyoto Group to join MICE (Y. Mori)

Yoshi presented an overview of the 6 groups involved in particle and accelerator science, outlining a 5-year programme and its physics aims which include MICE and muon acceleration. A budget request had been submitted, and ¥150M was hoped for over 5 years to support MICE activities. A first response was due in April, with final decision in July. After discussion, it was agreed that Kyoto would be welcome to join

MICE even without a successful grant. Specific tasks to which they would contribute will be negotiated over the next few months.

4) Technical Coordinator's Report (Paul Drumm)

Paul pointed out items on the critical path including installation work in the hall. Milestones are being tracked, and the roadmap of reviews was outlined. We were reminded of the importance of managing modifications through official procedures, starting with a change request, leading to an approved change note.

5) UK Groups in MICE

Edinburgh has stated that it wishes to withdraw from MICE, following a staff move. Lancaster wishes to join MICE. Rebecca Sevier was invited to the next Collaboration Meeting to explain their intended contributions.

6) Matters Arising from the Plenary Meeting

Hydrogen Safety: A response was being prepared to the report of the Review Panel. Each point would be addressed, either agreeing to follow recommendations or disagreeing, addressing the point with a robust analysis and risk assessment. Response would be via the Technical Board, to RAL.

Ratification of Possible P-Id Decisions: Vittorio Palladino presented muon purities and efficiencies with various particle identification detectors, obtained from simulations. He proposed eliminating the downstream Cherenkov. This would allow a smaller, cheaper design for MUCAL. After discussion, it was not felt that sufficient studies had been undertaken to take this decision. No formal change request had been received. It was agreed that tests should go ahead in the Frascati test beam, but no decision to eliminate Cherenkov2 could be taken at this stage. Vittorio was asked to produce a document to justify the change.

7) Date & Location of Future Meetings

The next Collaboration Meeting is scheduled for 21st – 24th June at Fermilab. This clashes with EPAC. A move to the 8th-11th June was proposed. 6 members were in favour of this change, 2 against and the rest abstained. The matter was referred to the Executive Board for a final decision.

The following meeting, CM16, will be the 8th – 12th October, at RAL.

CNB 25th May 2006