



MAP Participation

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Outline



- A bit of history
- Organization
- Institutional Board
- Institutional Board Membership
- Operational Aspects
- Future



History



- The Neutrino Factory Muon Collider Collaboration has been in operation for the past 11 years and has provided the framework for the muon associated R&D effort
- The NFMCC has managed the publication of results and assisted in securing and distributing speaking opportunities
- It has enabled active participation by university groups along with the national laboratories in carrying out the R&D needed for a neutrino factory/muon collider
- The Muon Acceleration Program is based on this very successful collaboration and is the logical evolution of these R&D activities



Organization



- Currently there are 214 participants in MAP (~31 FTEs) working at 14 different institutions
- Most are part of the NFMCC with MAP becoming the new organization taking over the functions of the NFMCC
- MAP is a more formal structure with a tighter management organization
- The institutions participating in MAP are represented by the Institutional Board in discussions with the Project Director
- The IB is taking the place of the Executive Committee of the NFMCC in the MAP



Organization (2)



- ANL RF breakdown
- BNL Cooling, Overall Design, Acceleration, Target
- FNAL 6D Cooling, Test Facility, Lattice Design, Magnets, RF, management
- JLAB RF
- LBNL RF, MICE, Management
- ORNL Target Facility
- SLAC RF breakdown
- Cornell Superconducting RF
- IIT MICE, Cooling, RF
- Princeton Target, MICE
- UCB Theory
- UCLA 6D Cooling
- UCR MICE, 6D Cooling
- U-Miss MICE, RF, Acceleration



Institutional Board



Institutional Board

- comprises members designated by each institution as their policy representative

 - chair chosen by IB membership, in consultation with Program Director

- members serve (individually) as institutional contact responsible for negotiating milestones and deliverables

- advises Map Director on policy matters

 - defines MAP membership guidelines and presentation and publication policies; raises policy matters to MAP Director; maintains publication information; considers outreach aspects



Institutional Board Chair



Organizes IB meetings and, with the Program Director, sets the meeting agendas

Organizes any required subcommittees

Works closely with the Program Director to ensure that appropriate guidelines for publication and presentation policies are in place

Brings any policy issues to the attention of the Program Director

With the IB advises the Program Director on outreach and communication

Makes sure that the IB provides the IB secretary with publication information so that an annual MAP publication list can be produced



Institutional Board Membership



ANL: Harry Weerts
BNL: Ilan Ben-Zvi
FNAL: Vladimir Shiltsev
Jlab: Andrew Hutton
LBNL: Steve Gourlay
ORNL: Van Graves
SLAC: Tor Raubenheimer
Cornell: Don Hartill (Chair)
IIT: Dan Kaplan (Secretary)
Princeton: Kirk McDonald
UCB: Jonathan Wurtele
UCLA: David Cline
UCR: Gail Hanson
U-Miss: Don Summers



Guidelines for Joining MAP



Prospective research groups seeking membership in the Muon Acceleration Program must have shown a significant interest in developing either a Neutrino Factory or a high energy Muon Collider. As an example, significant participation by members of the research group in past workshops and design studies of either a Neutrino Factory or a Muon Collider would indicate such an interest. Membership in MAP carries with it a commitment to participate in and carry out appropriate R&D activities to advance the state of the art for developing a Neutrino Factory or Muon Collider. The steps leading to membership are:

1. Submit a letter to the MAP Program Director requesting consideration for membership in MAP.
2. Included with the letter would be a brief description of previous activities directed at either a Neutrino Factory or a Muon Collider and a description of the proposed R&D program to be carried out upon acceptance into MAP. A statement of possible funding source(s) and the level of effort that would be required to carry out the proposed R&D program should be part of the description.
3. Upon receipt of the letter and accompanying materials the MAP Program Director will request that the IB study the proposal. The group would then be asked to make a presentation outlining their plans to the IB membership. The IB membership would then formally vote on the acceptance and if a 2/3 majority approves the acceptance and the MAP Program Director concurs, the prospective group would become a institutional member of MAP.
4. The new group would select one of its senior members who has the authority to approve milestones and monitor funding as its representative on the IB. The new IB member would have all the privileges and responsibilities of the other IB members.



MAP Is Growing!



- Likely Additions in the near future:

University of Chicago (already applied and working on MICE)

Muons, Inc. (will apply soon, working on 6D cooling, RF, proton driver)



Operational Aspects



- The IB serves as the representative of the multiple institutions in the MAP organization (including DOE-, NSF-, and SBIR-supported groups)
- The IB meets by telecon roughly once per month
- An annual face-to-face meeting of the collaboration (and the IB) is envisioned



Future



MAP looks forward to a very active and productive set of R&D activities that will lead to the realization of a multi-TeV Muon Collider