



The U.S. Muon Accelerator Program

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MICE Collaboration Meeting 32

STFC-RAL

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Introduction I

- Joined the US Muon Accelerator Program on January 9th of this year
- A multi-month handoff is presently underway
 - Will formally be full time on MAP starting in April
 - Would like to express my appreciation to my MAP colleagues who have been helping me get up to speed with the critical issues
 - Am looking forward to getting an overview of the MICE effort over the next few days
- And no, Bob Palmer and I are not related...



Introduction II

- Most recently have been Project Director for Cornell's CESR Test Accelerator (CESRTA) R&D Effort
 - ILC-driven Damping Ring R&D program
 - Research areas:
 - Low Emittance Tuning \Rightarrow record low emittance positron beams $<10\text{pm-rad}$
 - Advanced beam instrumentation
 - Electron cloud (EC) R&D
 - Development of the next generation of EC mitigations
 - Studies of EC-induced beam dynamics to provide operational guidance for DR design
- Looking forward to becoming deeply involved in the R&D challenges for muon accelerators



The US Muon Accelerator Program

- The test facilities (MICE and MTA) are central to the MAP plan and will be supported accordingly as we strive to demonstrate both ν Factory and μ Collider feasibility
- As of 2012, the program has not yet attained the desired funding profile in the U.S.
- Much of my initial effort is being directed towards making the case for the U.S. DOE to place MAP on the nominal funding profile
 - Offers critical contingency to ensure the R&D efforts are completed successfully and in timely fashion
 - Of course, the budget situation in Washington is challenging
 - Development of an updated FY13 plan is underway and will be reviewed on the summer timescale

MAP Activities

- The US effort will be well-represented in the sessions over the next few days
- A few highlights:
 - Making good progress towards testing the first spectrometer solenoid (see update by S. Virostek)
 - RF development work (see update by D. Li)
 - MTA continues to carry out key experiments in RF development (see update by Y. Torun)



MAP Activities (cont'd)

- Work is underway to prepare for the test of the first Coupling Coil (see talk by S. Virostek)
 - FNAL facilities and testing review in 2 weeks
 - CC general design review at LBNL at end of month
 - Building towards a mid-year test
 - Continued effort directed towards production plan
- Also several experimental and operations updates





Conclusion

- There is clearly a great deal to accomplish over the course of the next couple years
- MAP is committed to completing key elements of the apparatus and supporting their commissioning
- I'm looking forward to working closely with the MICE collaboration to achieve our physics goals!