

# Spokesman's update

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- Towards Step IV
- WWW refit
- DOE review of MAP/MICE; BNL August 2014
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Spokesman's update

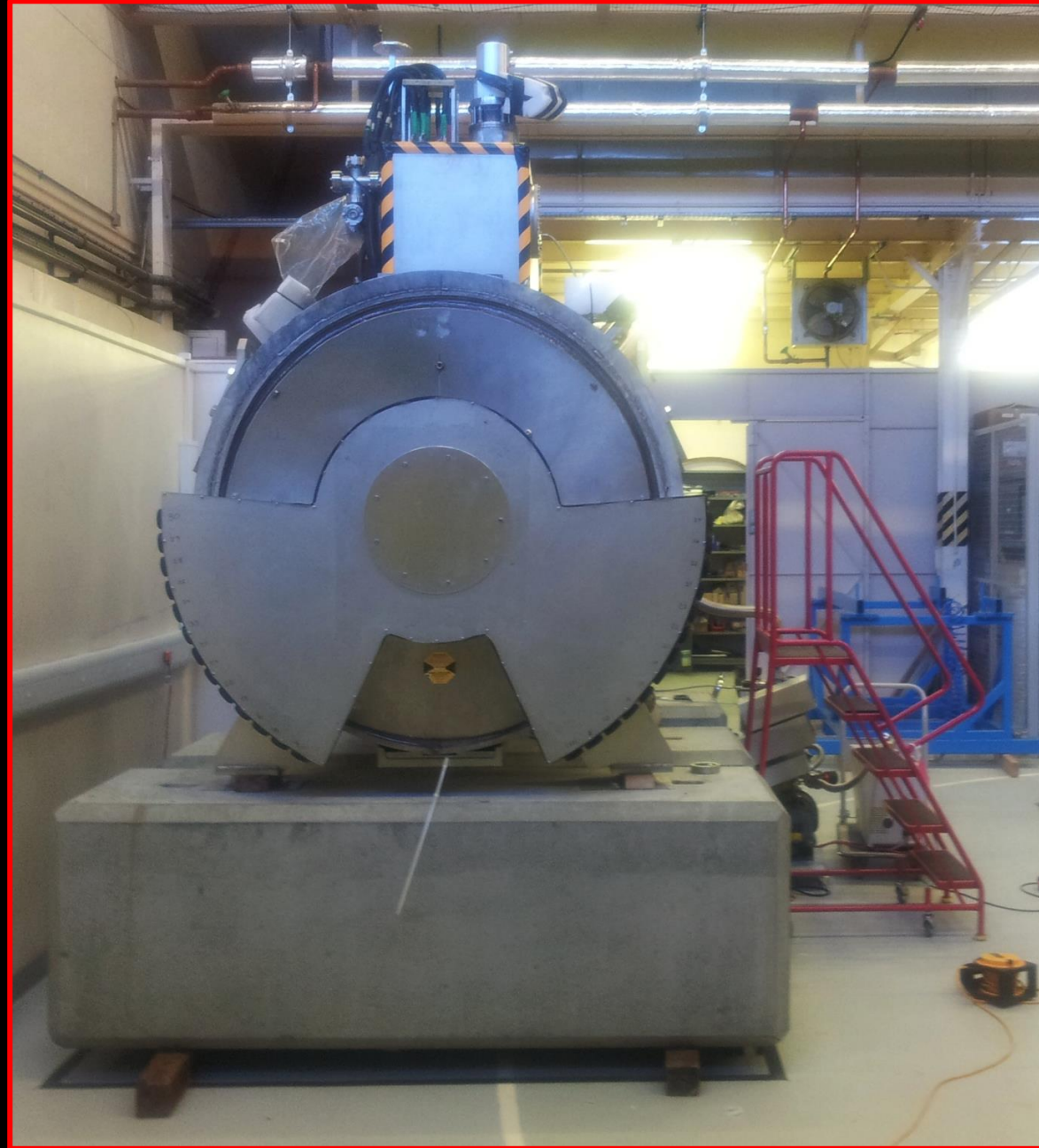
**Update:**

# Update: tracker/downstream solenoid:

- Upstream tracker installed:

**Congratulations  
once more!**  
[2 out of 2 aint bad!]

- D/s spectrometer will move to Hall 28Jul14:
  - Leak check underway

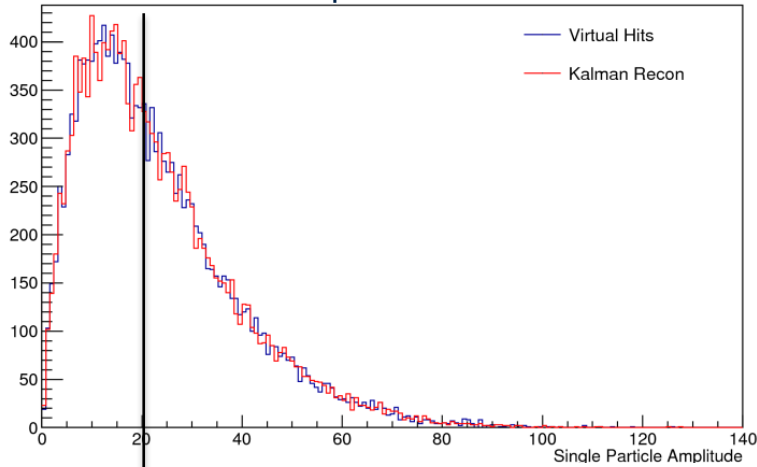


# Update: software/analysis:

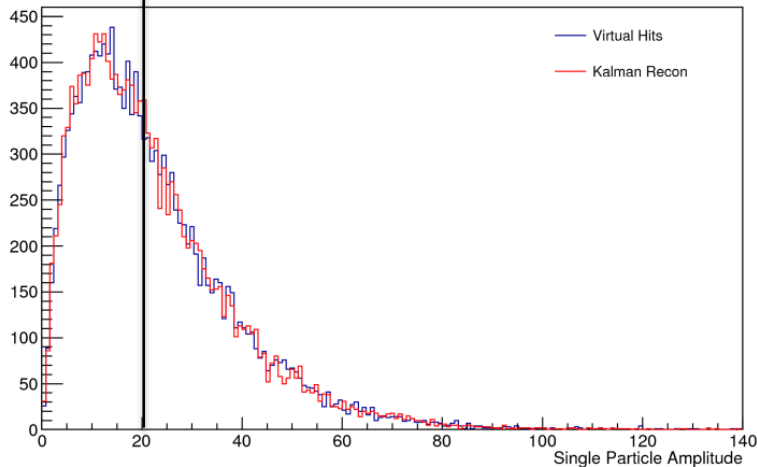
- Single-particle emittance

- Energy/emittance reduction

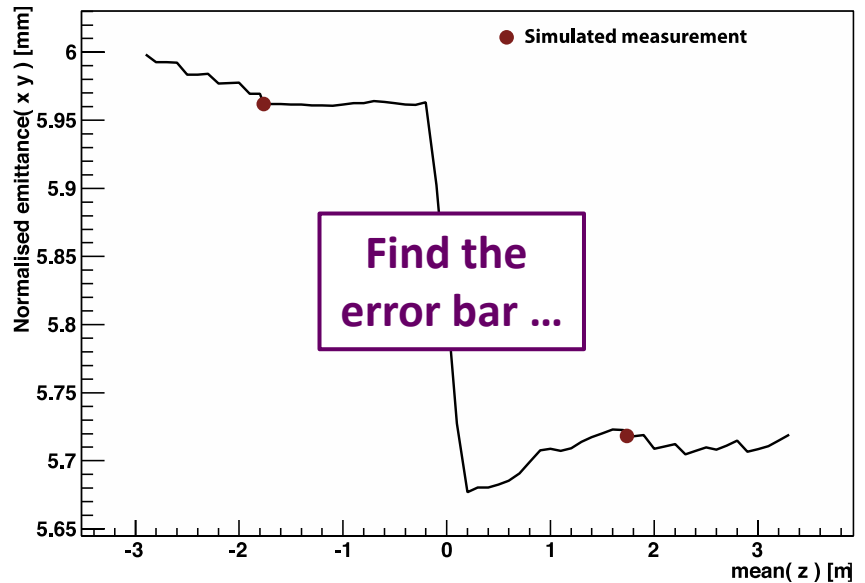
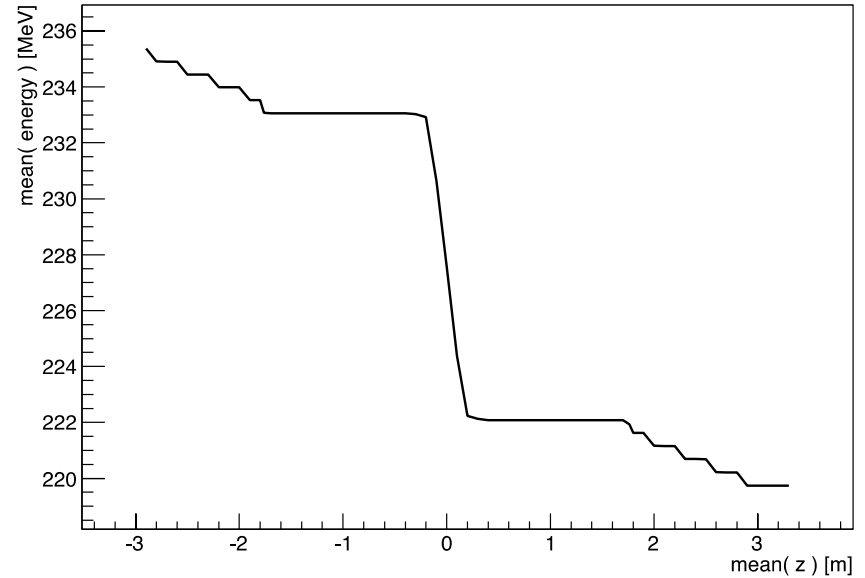
Upstream



Downstream



Nominal 200 MeV/c;  $6 \pi$  mm



## Update: software:

- MAUS project going well:
  - Need users to help smooth off the edges;
    - Ready for the development of Step IV analyses
- Geometry load-time issue:
  - S/w&C group reviewing geometry load issues next week
  - Agreed decision point 21Jul14;
    - Need to stick to this decision point to ensure the reconstruction and analysis is ready to “fly” at Step IV

Spokesman's update

**Getting noticed:**

a. **Health and Safety -**

*MICE Tour of 16<sup>th</sup> April 2014*

**MICE Hall and Assembly Area** – Maurits reports as outstanding. Dave Wark said to note the improvements made by John Govans in this area. Maurits feels this is an example of how we should be doing things.

**Congratulations to:**

- **John Govans (welcome back!)**
- **Andy Nichols**



Spokesman's update

**Towards Step IV**

## Sub-system

Spectrometer Solenoid 1/s

Spectrometer Solenoid 2/s

Fibre Tracker 1/s

Fibre Tracker 2/s

Focus Coil 1

LH<sub>2</sub> System A

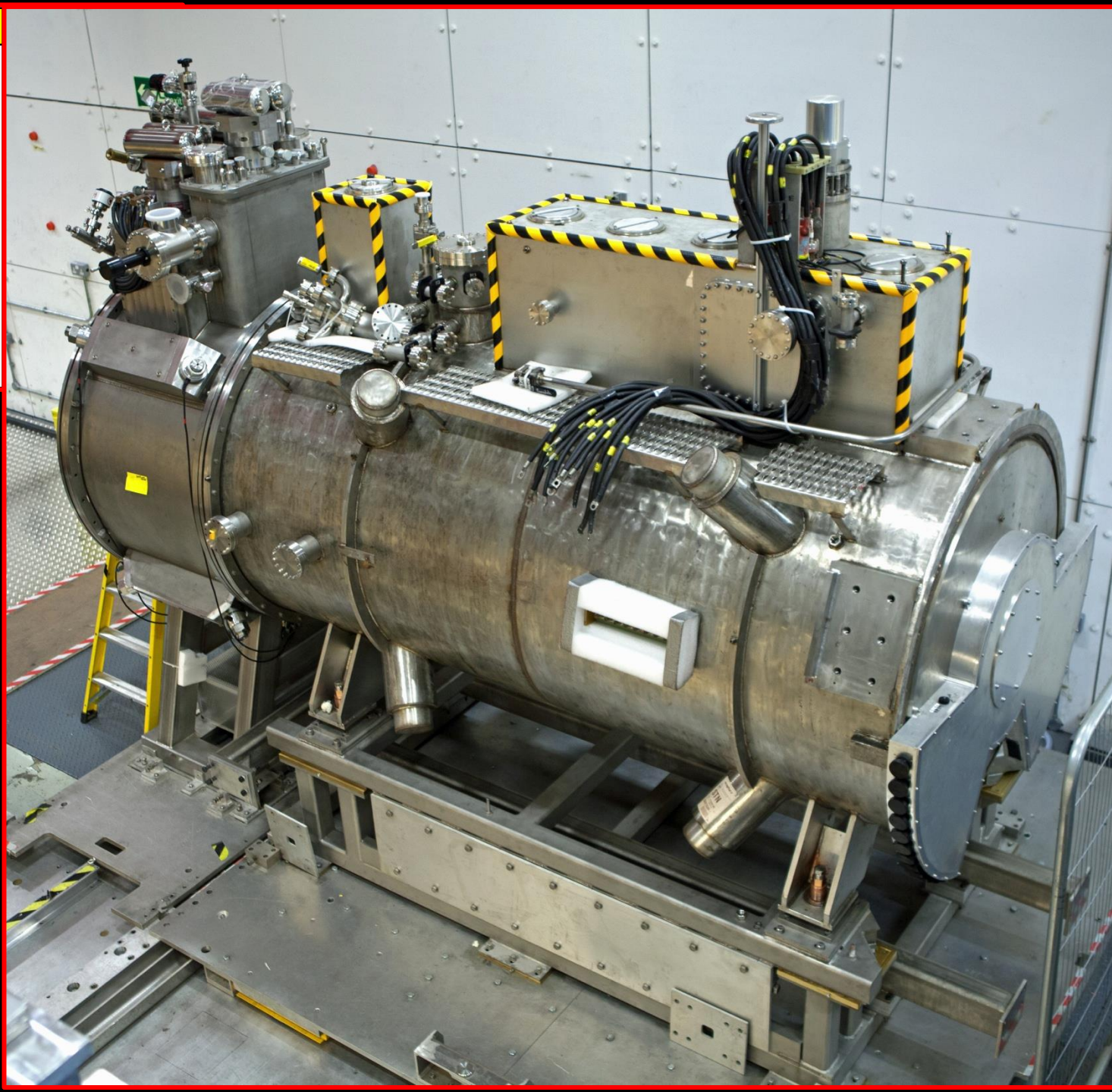
Lithium Hydride Absorber

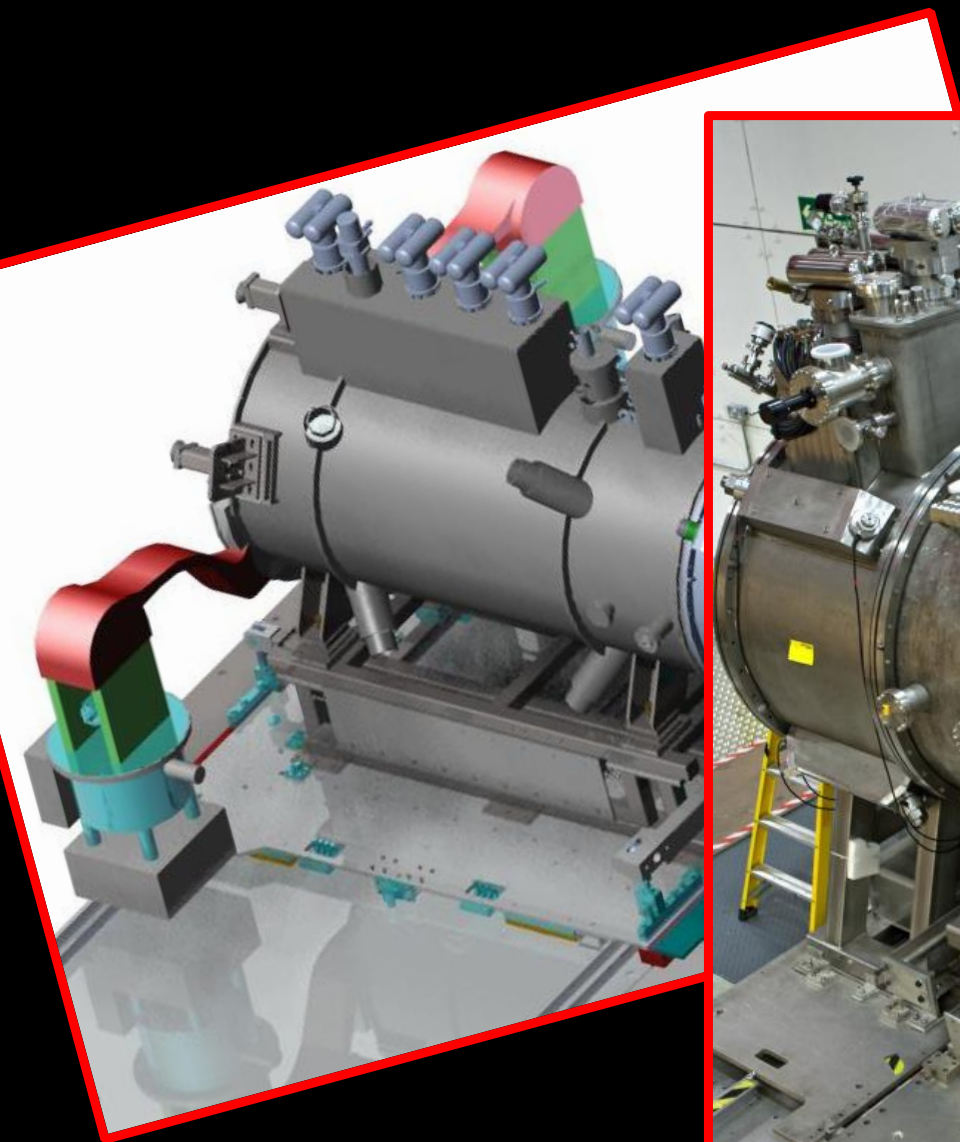
LH<sub>2</sub> Absorber

Diffuser

EMR

Partial Return Yoke 1





Spokesman's update

**MICE WWW presence – refit**

## INTERNATIONAL MUON IONIZATION COOLING EXPERIMENT

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To demonstrate that the volume occupied by a muon beam can be reduced ("cooled") would be to establish the feasibility of muon accelerators for particle physics. Muon accelerators have the potential to unlock nature's secrets hidden in the properties of the neutrino and deliver collisions in which the energy density is unprecedentedly large, far in excess of those that can be achieved at, for example, the LHC. MICE will deliver the necessary, seminal, demonstration of cooling.

[Read more](#) for an outline of MICE and an introduction to muon accelerators for particle physics.



### Information

[Weekly News](#)

[Project Dashboard](#)

[MICEmine](#)

[MICE Notes](#)

[MICE Indico](#)

[Photo Album](#)

[Mailing Lists](#)

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### Recent Publications

Characterisation of the muon beams for the Muon Ionisation Cooling Experiment  
[DOI](#), [e-print](#)

The MICE Muon Beam on ISIS and the beam-line instrumentation of the Muon Ionization Cooling Experiment  
[DOI](#), [e-print](#)

June 26, 2014

• Good work from Durga!

– Now going into "beta-test" ... so ...

• Comments to Durga ...

• **Beta test: now to 20<sup>th</sup> October 2014**

• **Live: from end of CM40, 28Oct14**

Spokesman's update

**DOE review of MAP/MICE;  
BNL August 2014**

# MICE contributions:

## • Papers:

- **Response to April RLSR/MPB actions/recommendations**
  - Editor: KL
  - Status: draft circulated (EB/MIPO/MEMO)
- **Physics/operations options paper:**
  - Editors: S. Boyd, V. Blackmore
  - Status: partially assembled.
- **Detector commissioning paper:**
  - Editor: P. Soler
  - Status: PS on vacation in US; will pick up when he's back
- **Magnet and beam line commissioning paper:**
  - Editor: J, Pasternak
  - Status: In preparation; draft will be circulated to magnet task force next Monday;
- **Assumptions document:**
  - Editor: R. Preece
  - Status: construction assumptions under development. Need input on commissioning, operations assumptions.
- **C&S document for MICE:**
  - Various scenarios to Step IV; IV & V
  - Editor: R, Preece
  - Status: First pass at necessary analysis complete. Draft to MIPO by the end of the week.

## • Presentations:

- |               |   |
|---------------|---|
| 08:30 - 09:15 | MICE Global Context (30+15) 45'<br>Speaker: Prof. Kenneth Long (Imperial College London)  |
| 09:15 - 10:00 | MICE-US RLS, Statusing, and Budget Profile (30+15) 45'<br>Speaker: Peter Garbincius (Fermilab)  |
| 10:00 - 10:45 | MICE-UK Plan (30+15) 45'<br>Speaker: R. Preece  |
| 10:45 - 11:00 | Coffee Break  |
| 11:00 - 11:45 | MICE-US Experimental Contributions (30+15) 45'<br>Speaker: Prof. Daniel Kaplan (Illinois Institute of Technology)                             |
| 11:45 - 12:30 | MAP and MICE Assumptions Documents - Q&A (10+10+25) 45'<br>Speakers: Dr. Mark Palmer (Fermilab), Prof. Kenneth Long (Imperial College London) |

Spokesman's update

**VCs and CM40**



- **VCs:**
  - **Thursday 14th August 2014 - 14:00 GMT**
  - **Thursday 18th September 2014 - 14:00 GMT**
  
- **CM40:**
  - **Rome: 26—29 October 2014**