

A sunset scene over a body of water. The sun is low on the horizon, creating a bright orange glow and a shimmering reflection on the water. A dark silhouette of a tree is visible on the left side of the frame. The sky is filled with soft, orange-tinted clouds.

MICE Operations Summary

(wrt Online & Software)

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CM 29 - February 16, 2011

MICE Operations

- **Beamline**
- **Detectors**
- **Environment**
- **DAQ**
- **Database**
- **Online Monitoring**
- **Online Reco**
- **Data Storage**

MICE Operations

- **Reminder: no data-taking since August**

- **ISIS shutdown**
- **Unfortunate power glitch**
- **Implementation of PPS**
- **TOFs rehabbed**
- **Documentation**

Operations

- **Beamline:**

- Target - tested, good
- Spectrometer Solenoid, Magnets, Beam Stop
 - no change since August – will need to test
- Proton Absorber
 - new remote controls need to be implemented

- **Detectors:**

- Luminosity Monitor, GVA1, CKOVs, KL – no change
- TOFs – no change
 - need to re-survey after reinstallation – and recalibrate

- **Environment: Monitoring in place**

- temperature, water done
- AC units in progress

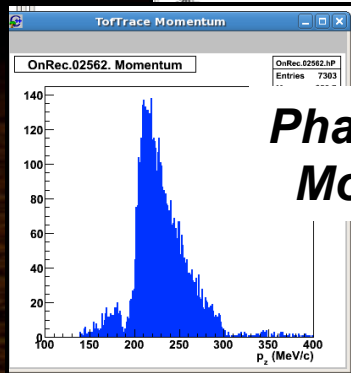
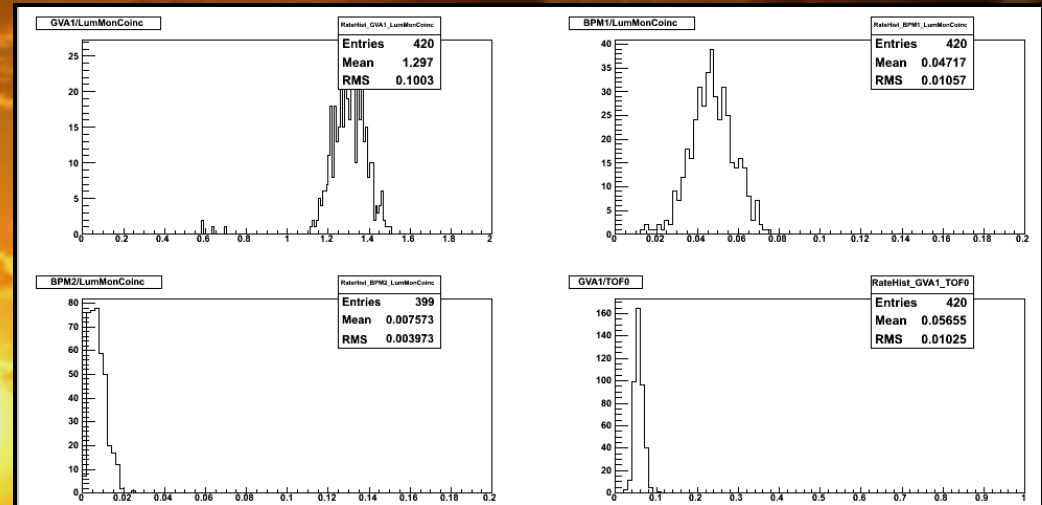
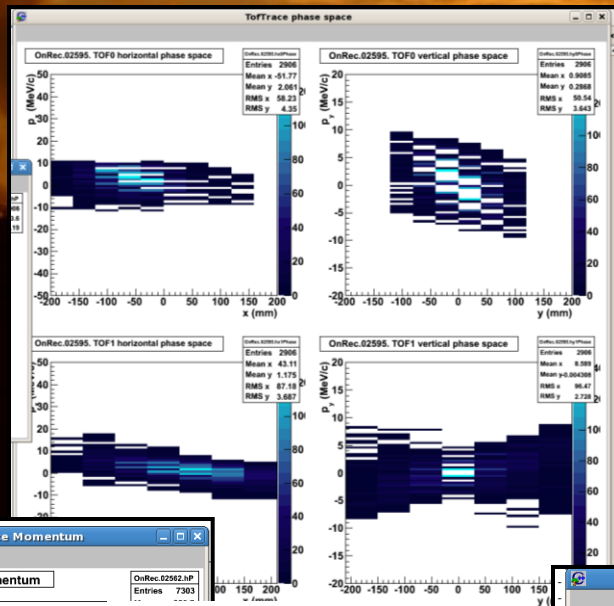
Operations

- **DAQ:**
 - Need to finish recovery from glitch – crates
 - Need to incorporate Tracker & EMR into unpacker and DAQ
- **Online Monitoring:**
 - Does it still work? Need to test
 - Updates to CKOV (Lucien)
- **Online Reconstruction:**
 - Does it still work? More testing
 - Are we maintaining the same functionality we had last summer?
- **Data Storage**
 - Data moves from control room to PPD and GRID
 - Does the data-mover work? Automated?

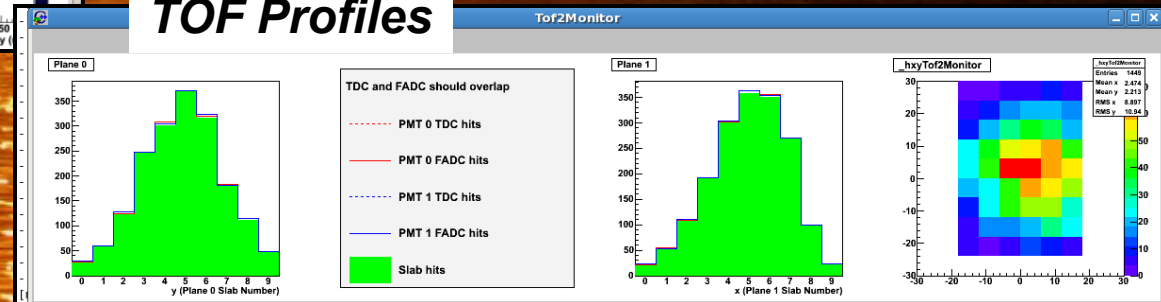
Online Reconstruction

- **Online Reco Reminder:**

- Are we maintaining the same functionality we had last summer?



TOF Profiles



Online Reconstruction

- **Online Reconstruction:**
 - What else do we want to do?
 - Have seen Chris' online beam-tuning tool
 - Have list of proposed online EMR plots...suddenly becoming very relevant
 - What about online tracker plots?
 - What about Step IV plots?
 - Near-instant feedback on usefulness of data
- **Data Quality**

Database

- **As of last summer we are running with it..**
 - Or are we?
- **Is it changing?**
 - Requested modifications to the parameters that needed manual input..status?
- **Needs better start/stop awareness for shifter**
- **What about special runs?**
 - Ex. Cosmic Ray Tests of trackers

Operations Information Sharing

- <http://micewww.pp.rl.ac.uk:8080/projects/operations>
- MICEmine

2/15/2011

Operations - Overview - MICEmine

Overview

The Operations Working Group is responsible for running the MICE experiment and taking data which facilitates an understanding of the muon beam and ultimately results in the measurement of muon cooling. These responsibilities include maintaining and operating the MICE target, beam line magnets, particle detectors, and the data acquisition system. The Operations Group maintains close ties with the [Online Group](#) in order to understand, improve and make use of tools including the controls and monitoring systems for each part of the MICE experiment, checks of data quality and detector function, and networking within the MLCR. The Operations Group also develops and implements appropriate training regimes for members of MICE on shift and beam line experts (BLOCs). The MICE Operations Manager (MOM) is the leader of the group and is responsible for the daily functioning of the experiment, preparation for future stages, and the safety and training of MICE personnel at the experiment.

This website includes information pertaining to tasks to be completed, documentation for shifter use during data-taking and detailed descriptions of MICE systems, and wikis for shifters, MOMs, and general MICE. Use of this site is intended to assist in shifter training, maintaining long-term operational knowledge, and organization of work related to operations.

- Subprojects: [Data Aquisition and Trigger](#), [Network in Control Room](#)

Issue tracking

- Bug: 2 open / 3
- Feature: 10 open / 21

[View all issues](#) | [Calendar](#) | [Gantt](#)

Operations Information Sharing

- Issue tracker
- No new issues since November 15
- Many in (slow) progress
- **Documentation – Documentation!!**

Operations - Issues

#	Project	Tracker	Status	Priority	Subject	Assigned to	Updated	Category
150	Operations	Feature	In Progress	Low	lingo	Snopok, Pavel	03 November 2010	Documentation
148	Operations	Feature	Open	Normal	Post TRD on micemine	Snopok, Pavel	15 November 2010	Documentation
96	Operations	Feature	Open	Normal	move mico stuff to redmine	Snopok, Pavel	13 October 2010	Documentation
83	Operations	Feature	Open	Normal	e-log improvement		06 October 2010	
76	Operations	Feature	Open	Low	move issues from postpartum document to redmine	Rogers, Chris	04 October 2010	
70	Operations	Bug	Open	Low	optics page formatting bug	Tunnell, Christoph	04 October 2010	
65	Operations	Feature	In Progress	Normal	verify that Spill Gate instruction document is correct	Graulich, Jean-Se	01 October 2010	Data Acquisition
64	Operations	Feature	Open	Normal	update DAQ QuickStart manual	Graulich, Jean-Se	30 September 2010	Data Acquisition
63	Operations	Feature	Open	Normal	update MoveFiles manual (separate document from MoveFiles shifter instru	Coney, Linda	07 October 2010	
62	Operations	Feature	Open	Normal	check validity of new MoveFiles shifter instruction document	Nebrensky, Henry	30 September 2010	
40	Operations	Feature	Open	Normal	Operations documentation	Coney, Linda	23 September 2010	
28	Operations	Bug	Open	Low	miceonrec01a pretends to be miceonrec01b too	Coney, Linda	16 September 2010	

MOM Information Sharing

- Need better transfer of knowledge
- MOM handover – *Victoria*
- MICEmine

2/15/2011

Operations - MOMHandover - MICEmine

The MOM Handover List of "Things to Know"

Below is the information that is recorded by the MOM and it is meant to be given to the next MOM.

MOM: Alain Blondel and Victoria Blackmore (14 January to 15 February)

- follow up on PPS and rebuild of MICE control room power supplies
- get from ISIS exact dates of running periods for 2011 including the MPs and running up periods
- follow up schedule of TOF1 reconstruction, EMR and activities to be foreseen in the MICE hall in 2011.
- by 15 February a program of work in the MICE beamline/hall should be completed for proposal to the collaboration

MOM: Pavel Snopok (3 Oct. 2010 till 9 Nov. 2010)

- MOM needs to know procedures and policies for using the MICE van: <http://micewww.pp.rl.ac.uk:8080/projects/mice/wiki/Transport>.

MOM: Linda R. Coney (10 Sept. 2010 till 3 Oct. 2010)

- Keys to Q1, Q2, Q3, D1 power supplies are UP IN ISIS CONTROL ROOM. ACCESS DETERMINED BY ISIS DURING SHUTDOWN.
- Measure polarity on D2, Q4-6, Q7-9
- Move power strip sitting on floor behind Q123 power supply to avoid potential damage if PS cooling water leaks.
- Document new van procedures.
- Bug DAQ expert to update documentation.

MOM: Jean-Sebastien Graulich (8 Sept. 2010 till 11 Sept. 2010)

- TOF0 and TOF1 were surveyed. Measurements were taken to determine tilt(s) of TOF1 and TOF0 wrt the beamline. MICE Note describing detector positioning and requirements for reinstallation is needed.

MOM: Roumen Tsenov (13 Aug. 2010 till 8 Sept. 2010)

- Check-list for MOM's Daily-walk-through during the shut-down: I've been using the run-state one, but in fact many items are not needed.

Operations Summary

- We are not ready to run again...yet.
- Online reco needs attention.
- Information sharing must improve.

