

**Mu2e DOE Independent  
Project Review-2017**

**Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Executive Session

*Tuesday, 25 July 2017 08:00 (1 hour)*

**Presenter:** FISHER, Kurt (DOE)

Contribution ID: 1

Type: **not specified**

## Welcome

*Tuesday, 25 July 2017 09:00 (10 minutes)*

Contribution ID: 2

Type: **not specified**

## Project Overview

*Tuesday, 25 July 2017 09:10 (50 minutes)*

**Presenter:** Dr RAY, Ron (Fermilab)

Contribution ID: 3

Type: **not specified**

## WBS 2 Accelerator

*Tuesday, 25 July 2017 10:00 (30 minutes)*

**Presenter:** Dr WERKEMA, Steve (Fermilab)

Contribution ID: 4

Type: **not specified**

## WBS 4 Solenoids

*Tuesday, 25 July 2017 11:00 (30 minutes)*

**Presenter:** Dr LAMM, Michael (Fermilab)

Contribution ID: 5

Type: **not specified**

## WBS 5 Muon Beamline

*Tuesday, 25 July 2017 11:30 (30 minutes)*

**Presenter:** GINTHER, George (University of Rochester)

Contribution ID: 6

Type: **not specified**

## Photo for DOE Reviewers - Atrium

*Tuesday, 25 July 2017 13:00 (10 minutes)*



Contribution ID: 7

Type: **not specified**

## WBS 6 Tracker

*Tuesday, 25 July 2017 13:10 (20 minutes)*

**Presenter:** Dr MUKHERJEE, Aseet (Fermilab)

Contribution ID: **8**

Type: **not specified**

## **WBS 7 Calorimeter**

*Tuesday, 25 July 2017 13:30 (20 minutes)*

**Presenter:** MISCETTI, Stefano (Frascati)

Contribution ID: 9

Type: **not specified**

## **WBS 8 Cosmic Ray Veto**

*Tuesday, 25 July 2017 13:50 (20 minutes)*

**Presenter:** Prof. DUKES, E. Craig (University of Virginia)

Contribution ID: **10**

Type: **not specified**

## **WBS 9 Trigger and DAQ**

*Tuesday, 25 July 2017 14:10 (20 minutes)*

**Presenter:** Mr RIVERA, Ryan (FNAL)

Contribution ID: **11**

Type: **not specified**

## Integration

*Tuesday, 25 July 2017 14:30 (30 minutes)*

**Presenter:** Dr BYRUM, karen (argonne national lab)

Contribution ID: 12

Type: **not specified**

## Full Committee Executive Session

*Tuesday, 25 July 2017 17:00 (1h 30m)*

Contribution ID: 13

Type: **not specified**

## Response to Reviewer's Questions

*Wednesday, 26 July 2017 13:00 (1 hour)*

**Presenter:** Dr RAY, Ron (Fermilab)

Contribution ID: 14

Type: **not specified**

## **Subcommittee Executive Session/Report Writing/Tours of Facilities**

*Wednesday, 26 July 2017 14:00 (1h 30m)*

Writing Sessions

Possible Tours 1) Lab 3 Prototype Tracker Panel Fabrication Facility, 2) TS Module Test Facility (HAB)



Contribution ID: 15

Type: **not specified**

## Full Committee Executive Session

*Wednesday, 26 July 2017 15:30 (1h 30m)*

Contribution ID: 16

Type: **not specified**

## Subcommittee Working Session

*Thursday, 27 July 2017 08:00 (1h 30m)*

Contribution ID: 17

Type: **not specified**

## **Full Committee Executive Session Dry Run/Working Lunch**

*Thursday, 27 July 2017 09:30 (1h 30m)*

Contribution ID: **18**

Type: **not specified**

## Closeout Presentation

*Thursday, 27 July 2017 11:00 (1 hour)*

**Presenter:** FISHER, Kurt

Contribution ID: 19

Type: **not specified**

## **B04-2 Production Solenoid/Detector Solenoid**

*Tuesday, 25 July 2017 16:00 (1 hour)*

**Presenter:** PAGE, Tom (Fermilab)

**Session Classification:** B04-Solenoids Breakout

Contribution ID: 20

Type: **not specified**

## **B04-6 Quench Protection and Monitoring**

*Wednesday, 26 July 2017 09:30 (30 minutes)*

**Presenter:** ORRIS, Darryl (Fermilab)

**Session Classification:** B04-Solenoids Breakout

Contribution ID: 21

Type: **not specified**

## **B04-3 Transport Solenoid Overview/Modules**

*Wednesday, 26 July 2017 08:00 (40 minutes)*

**Presenter:** LOMBARDO, Vito (Fermilab)

**Session Classification:** B04-Solenoids Breakout

Contribution ID: 22

Type: **not specified**

## **B04-4 Transport Solenoid Cryostat**

*Wednesday, 26 July 2017 08:40 (20 minutes)*

**Presenter:** NICOL, Tom (Fermilab)

**Session Classification:** B04-Solenoids Breakout



Contribution ID: 23

Type: **not specified**

## **B04-5 Ancillary Equipment/Integration, Installation, Commissioning**

*Wednesday, 26 July 2017 09:00 (30 minutes)*

**Presenter:** BRANDT, Jeff (Fermilab)

**Session Classification:** B04-Solenoids Breakout

Contribution ID: 24

Type: **not specified**

## **B04-8 Field Mapping**

*Wednesday, 26 July 2017 11:05 (30 minutes)*

**Presenter:** Dr FEHER, Sandor (Fermilab)

**Session Classification:** B04-Solenoids Breakout

Contribution ID: 25

Type: **not specified**

## **B04-7 Cryo distribution**

*Wednesday, 26 July 2017 10:20 (45 minutes)*

**Presenter:** TOPE, Terry (Fermilab)

**Session Classification:** B04-Solenoids Breakout

Contribution ID: 26

Type: **not specified**

## **B04-9 Power Supplies**

*Wednesday, 26 July 2017 11:35 (25 minutes)*

**Presenter:** Mr HAYS, Steven (AD E/E Support)

**Session Classification:** B04-Solenoids Breakout

Contribution ID: 27

Type: **not specified**

## Discussion

Contribution ID: 28

Type: **not specified**

## **B01-4 ES&H**

*Tuesday, 25 July 2017 16:40 (20 minutes)*

**Presenter:** LEWIS, Raymond (Fermilab)

**Session Classification:** B01-Management Breakout

Contribution ID: 29

Type: **not specified**

## **B01-3 Quality Assurance**

*Tuesday, 25 July 2017 16:20 (20 minutes)*

**Presenter:** Ms ADETUNJI, Jemila (FNAL)

**Session Classification:** B01-Management Breakout

Contribution ID: **30**

Type: **not specified**

## **B01-5 EVMS, Cost & Schedule Performance**

*Wednesday, 26 July 2017 08:00 (30 minutes)*

**Presenter:** Dr RAY, Ron (Fermilab)

**Session Classification:** B01-Management Breakout



Contribution ID: **31**

Type: **not specified**

## **B01-7 Transition to Operations**

*Wednesday, 26 July 2017 09:00 (30 minutes)*

**Presenter:** Dr GLENZINSKI, Douglas (Fermilab)

**Session Classification:** B01-Management Breakout

Contribution ID: 32

Type: **not specified**

## **B01-2 Mu2e Procurements**

*Tuesday, 25 July 2017 16:00 (20 minutes)*

**Presenter:** GAUGEL, Steve (Fermilab)

**Session Classification:** B01-Management Breakout

Contribution ID: 33

Type: **not specified**

## **B01-1 Solenoid Procurements**

*Tuesday, 25 July 2017 15:20 (40 minutes)*

Management of Solenoid Procurements - Joint Solenoids/Management Breakout (WH1E)

**Presenter:** Dr HOCKER, Andy (FNAL)

**Session Classification:** B01-Management Breakout

Contribution ID: 34

Type: **not specified**

## **B01-11 Mu2e Risk Management**

*Wednesday, 26 July 2017 11:20 (20 minutes)*

**Presenter:** DINNON, Mike (Fermilab)

**Session Classification:** B01-Management Breakout

Contribution ID: 35

Type: **not specified**

## **B01-8 KPPs**

*Wednesday, 26 July 2017 09:30 (30 minutes)*

**Presenter:** Dr RAY, Ron (Fermilab)

**Session Classification:** B01-Management Breakout

Contribution ID: **36**

Type: **not specified**

## **B01-9 Installation**

*Wednesday, 26 July 2017 10:20 (30 minutes)*

**Presenter:** Mr RUCINSKI, Russell (Fermilab)

**Session Classification:** B01-Management Breakout

Contribution ID: 37

Type: **not specified**

## **B01-6 Response to Recommendations**

*Wednesday, 26 July 2017 08:30 (30 minutes)*

**Presenter:** Dr WHITMORE, Juliana (Fermilab)

**Session Classification:** B01-Management Breakout

Contribution ID: **38**

Type: **not specified**

## **B01-10 Change Control**

*Wednesday, 26 July 2017 10:50 (30 minutes)*

**Presenter:** GLASS, Henry (Fermilab)

**Session Classification:** B01-Management Breakout



Contribution ID: 39

Type: **not specified**

## **B05-1 CRV Project Management**

*Tuesday, 25 July 2017 15:20 (10 minutes)*

**Presenter:** Prof. DUKES, E. Craig (University of Virginia)

**Session Classification:** B05-Calorimeter/Cosmic Ray Breakout

Contribution ID: 40

Type: **not specified**

## **B05-2 CRV Mechanical Design and Simulations**

*Tuesday, 25 July 2017 15:30 (10 minutes)*

**Presenter:** Prof. DUKES, E. Craig (University of Virginia)

**Session Classification:** B05-Calorimeter/Cosmic Ray Breakout

Contribution ID: 41

Type: **not specified**

## **B05-3 CRV Scintillator Extrusions**

*Tuesday, 25 July 2017 15:40 (10 minutes)*

**Presenter:** PLA-DALMAU, Anna (Fermilab)

**Session Classification:** B05-Calorimeter/Cosmic Ray Breakout

Contribution ID: 42

Type: **not specified**

## **B05-4 CRV Fibers**

*Tuesday, 25 July 2017 15:50 (10 minutes)*

**Presenter:** Dr OKSUZIAN, Yuri (Univeristy of Virginia)

**Session Classification:** B05-Calorimeter/Cosmic Ray Breakout

Contribution ID: 43

Type: **not specified**

## **B05-5 CRV Photodetectors**

*Tuesday, 25 July 2017 16:00 (10 minutes)*

**Presenter:** ZUTSHI, Vishnu (NIU)

**Session Classification:** B05-Calorimeter/Cosmic Ray Breakout

Contribution ID: 44

Type: **not specified**

## **B05-6 CRV Electronics**

*Tuesday, 25 July 2017 16:10 (10 minutes)*

**Presenter:** HANSEN, Sten (Fermilab)

**Session Classification:** B05-Calorimeter/Cosmic Ray Breakout

Contribution ID: 45

Type: **not specified**

## **B05-8 CRV Detector Assembly & Installation**

*Tuesday, 25 July 2017 16:30 (10 minutes)*

**Presenter:** WOOD, Ken (Argonne National Lab)

**Session Classification:** B05-Calorimeter/Cosmic Ray Breakout

Contribution ID: 46

Type: **not specified**

## **B05-7 CRV Module Fabrication**

*Tuesday, 25 July 2017 16:20 (10 minutes)*

**Presenter:** Dr GROUP, Craig (Virginia)

**Session Classification:** B05-Calorimeter/Cosmic Ray Breakout



Contribution ID: 47

Type: **not specified**

## **B05-10 Calorimeter, Introduction**

*Wednesday, 26 July 2017 08:00 (10 minutes)*

**Presenter:** Dr MISCETTI, Stefano (LNF INFN Frascati)

**Session Classification:** B05-Calorimeter/Cosmic Ray Breakout

Contribution ID: 48

Type: **not specified**

## **B05-11 Calorimeter Crystals**

*Wednesday, 26 July 2017 08:10 (10 minutes)*

**Presenter:** Prof. HITLIN, David (Caltech)

**Session Classification:** B05-Calorimeter/Cosmic Ray Breakout

Contribution ID: 49

Type: **not specified**

## **B05-12 Calorimeter custom SiPMs**

*Wednesday, 26 July 2017 08:20 (10 minutes)*

**Presenter:** Dr SARRA, Ivano (INFN)

**Session Classification:** B05-Calorimeter/Cosmic Ray Breakout

Contribution ID: 50

Type: **not specified**

## **B05-13 Calorimeter mechanics**

*Wednesday, 26 July 2017 08:30 (10 minutes)*

**Presenter:** Dr HAPPACHER, fabio (INFN)

**Session Classification:** B05-Calorimeter/Cosmic Ray Breakout

Contribution ID: 51

Type: **not specified**

## **B05-14 Calorimeter Calibration tools**

*Wednesday, 26 July 2017 08:40 (10 minutes)*

**Presenter:** Prof. PORTER, Frank (Caltech)

**Session Classification:** B05-Calorimeter/Cosmic Ray Breakout

Contribution ID: 52

Type: **not specified**

## **B05-15 Calorimeter electronics**

*Wednesday, 26 July 2017 08:50 (10 minutes)*

**Presenter:** Dr SPINELLA, Franco (INFN PI)

**Session Classification:** B05-Calorimeter/Cosmic Ray Breakout

Contribution ID: 53

Type: **not specified**

## **B06-1 TDAQ Management and System Design & Test**

*Tuesday, 25 July 2017 15:20 (15 minutes)*

**Presenter:** Mr RIVERA, Ryan (FNAL)

**Session Classification:** B06-Tracker/DAQ

Contribution ID: 54

Type: **not specified**

## **B06-2 TDAQ Data Acquisition**

*Tuesday, 25 July 2017 15:35 (20 minutes)*

**Presenter:** Mr KWARCANY, Rick (FNAL/SCD)

**Session Classification:** B06-Tracker/DAQ



Contribution ID: 55

Type: **not specified**

## **B06-3 TDAQ Data Processing**

*Tuesday, 25 July 2017 15:55 (20 minutes)*

**Presenter:** Dr BIERY, Kurt (Fermilab)

**Session Classification:** B06-Tracker/DAQ

Contribution ID: 56

Type: **not specified**

## **B06-4 TDAQ Controls & Networking**

*Tuesday, 25 July 2017 16:15 (20 minutes)*

**Presenter:** Dr BIERY, Kurt (Fermilab)

**Session Classification:** B06-Tracker/DAQ

Contribution ID: 57

Type: **not specified**

## **B03-1 Muon Beamline Vacuum for the 2017 DOE IPR**

*Tuesday, 25 July 2017 15:20 (5 minutes)*

**Presenter:** Mr PUSHKA, Dave (Fermilab)

**Session Classification:** B03-Muon Beamline Breakout

Contribution ID: 58

Type: **not specified**

## **B03-2 Muon Beamline Collimators-2017 DOE IPR**

*Tuesday, 25 July 2017 15:25 (5 minutes)*

**Presenter:** Mr CARMICHAEL, Justin (Fermilab)

**Session Classification:** B03-Muon Beamline Breakout

Contribution ID: 59

Type: **not specified**

## **B03-3 Muon Beamline External Shielding-2017 DOE IPR**

*Tuesday, 25 July 2017 15:30 (5 minutes)*

**Presenter:** GINTHER, George (University of Rochester)

**Session Classification:** B03-Muon Beamline Breakout

Contribution ID: **60**

Type: **not specified**

## **B03-4 Muon Stopping Target-2017 DOE IPR**

*Tuesday, 25 July 2017 15:35 (5 minutes)*

**Presenter:** Prof. MILLER, James (Boston University)

**Session Classification:** B03-Muon Beamline Breakout

Contribution ID: **61**

Type: **not specified**

## **B03-5 Muon Stopping Target Monitor-2017 DOE IPR**

*Tuesday, 25 July 2017 15:40 (5 minutes)*

**Presenter:** Prof. MILLER, James (Boston University)

**Session Classification:** B03-Muon Beamline Breakout

Contribution ID: **62**

Type: **not specified**

## **B03-6 DS Internal Shielding-2017 DOE IPR**

*Tuesday, 25 July 2017 15:45 (5 minutes)*

**Presenter:** GLASS, Henry (Fermilab)

**Session Classification:** B03-Muon Beamline Breakout



Contribution ID: **63**

Type: **not specified**

## **B03-7 Muon Beam Stop – 2017 DOE IPR**

*Tuesday, 25 July 2017 15:50 (5 minutes)*

**Presenter:** Mr BOSSERT, Rodger (Fermilab)

**Session Classification:** B03-Muon Beamline Breakout

Contribution ID: **64**

Type: **not specified**

## **B03-8 Detector Support and Installation System – 2017 DOE IPR**

*Tuesday, 25 July 2017 15:55 (5 minutes)*

**Presenter:** Mr BOSSERT, Rodger (Fermilab)

**Session Classification:** B03-Muon Beamline Breakout

Contribution ID: 65

Type: **not specified**

## **B03-9 Muon Beamline Breakout Session Overview – 2017 DOE IPR**

*Tuesday, 25 July 2017 16:00 (5 minutes)*

**Presenter:** GINTHER, George (University of Rochester)

**Session Classification:** B03-Muon Beamline Breakout

Contribution ID: **66**

Type: **not specified**

## **B06-5 Tracker Straws**

*Wednesday, 26 July 2017 08:00 (20 minutes)*

**Presenter:** Dr AMBROSE, Dan (U. Mn)

**Session Classification:** B06-Tracker/DAQ

Contribution ID: 67

Type: **not specified**

## **B06-6 Tracker Straw Assemblies**

*Wednesday, 26 July 2017 08:20 (20 minutes)*

**Presenter:** Dr HELLER, Ken (U. Mn)

**Session Classification:** B06-Tracker/DAQ

Contribution ID: **68**

Type: **not specified**

## **B06-7 Tracker FEE**

*Wednesday, 26 July 2017 08:40 (20 minutes)*

**Presenter:** RUSU, Vadim (FNAL)

**Session Classification:** B06-Tracker/DAQ

Contribution ID: 69

Type: **not specified**

## **B06-8 Tracker Infrastructure/Alignment**

*Wednesday, 26 July 2017 09:00 (20 minutes)*

**Presenter:** WANG, Chiho (Duke)

**Session Classification:** B06-Tracker/DAQ

Contribution ID: 70

Type: **not specified**

## **B02-1 Accelerator Overview**

*Tuesday, 25 July 2017 15:20 (40 minutes)*

**Presenter:** Dr WERKEMA, Steve (Fermilab)

**Session Classification:** B02-Accelerator Breakout



Contribution ID: 71

Type: **not specified**

## **B02-3 Instrumentation & Controls**

*Tuesday, 25 July 2017 16:30 (30 minutes)*

**Presenter:** Mr DRENDEL, Brian (AD/HQ)

**Session Classification:** B02-Accelerator Breakout

Contribution ID: 72

Type: **not specified**

## **B02-2 Resonant Extraction**

*Tuesday, 25 July 2017 16:00 (30 minutes)*

**Presenter:** Dr NAGASLAEV, Vladimir (Fermilab)

**Session Classification:** B02-Accelerator Breakout

Contribution ID: 73

Type: **not specified**

## **B02-4 Target Station**

*Wednesday, 26 July 2017 08:00 (30 minutes)*

**Presenter:** Mr PUSHKA, Dave (Fermilab)

**Session Classification:** B02-Accelerator Breakout

Contribution ID: 74

Type: **not specified**

## **B02-5 Target Handling**

*Wednesday, 26 July 2017 08:30 (30 minutes)*

**Presenter:** Mr CAMPBELL, Michael (FNAL)

**Session Classification:** B02-Accelerator Breakout

Contribution ID: 75

Type: **not specified**

## **B02-6 Radiation Safety**

*Wednesday, 26 July 2017 09:00 (30 minutes)*

**Presenter:** Mr KROC, Thomas (FNAL)

**Session Classification:** B02-Accelerator Breakout

Contribution ID: 76

Type: **not specified**

## **B02-7 External Beamline**

*Wednesday, 26 July 2017 09:30 (30 minutes)*

**Presenter:** Mr STILL, Dean (AD/Muon)

**Session Classification:** B02-Accelerator Breakout

Contribution ID: 77

Type: **not specified**

## **B02-10 - Delivery Ring RF**

*Wednesday, 26 July 2017 11:20 (30 minutes)*

**Presenter:** Dr NAGASLAEV, Vladimir (Fermilab)

**Session Classification:** B02-Accelerator Breakout

Contribution ID: 78

Type: **not specified**

## **B02-8 - Extinction**

*Wednesday, 26 July 2017 10:20 (30 minutes)*

**Presenter:** Dr PREBYS, Eric (Fermilab)

**Session Classification:** B02-Accelerator Breakout



Contribution ID: 79

Type: **not specified**

## **B02-9 - Extinction Monitoring**

*Wednesday, 26 July 2017 10:50 (30 minutes)*

**Presenter:** KASPER, Peter (Fermilab)

**Session Classification:** B02-Accelerator Breakout

Contribution ID: **81**

Type: **not specified**

## **B04-1 Solenoid Procurements - Joint Solenoid/Management Breakout (WH1E)**

*Tuesday, 25 July 2017 15:20 (40 minutes)*

Joint Solenoid/Management Breakout

Management of Solenoid Procurements - talk to be held in Management Breakout in WH1E

**Presenter:** Dr HOCKER, Andy (FNAL)

**Session Classification:** B04-Solenoids Breakout

Contribution ID: **82**

Type: **not specified**

## **B05-16 ECAL Simulation**

*Wednesday, 26 July 2017 09:00 (10 minutes)*

**Presenter:** ECHENARD, Bertrand (Caltech)

**Session Classification:** B05-Calorimeter/Cosmic Ray Breakout

Contribution ID: **83**

Type: **not specified**

## **B05-17 Calorimeter Trigger**

*Wednesday, 26 July 2017 09:10 (10 minutes)*

**Presenter:** Dr DI FALCO, Stefano (INFN - Pisa)

**Session Classification:** B05-Calorimeter/Cosmic Ray Breakout