

# Proton Accelerators for Science and Innovation Workshop



## Report of Contributions

Contribution ID: 0

Type: **not specified**

# Welcome

*Thursday, 12 January 2012 11:00 (10 minutes)*

**Presenter:** CHATTERTON DICKSON, Robert (UK Consul General)

**Session Classification:** Plenary session: Introduction

Contribution ID: 1

Type: **not specified**

## Origin of meeting and meeting goals

*Thursday, 12 January 2012 11:10 (25 minutes)*

**Presenter:** Prof. LONG, Kenneth (Imperial College London)

**Session Classification:** Plenary session: Introduction

Contribution ID: 2

Type: **not specified**

## **EMMA: Status and Prospects**

*Thursday, 12 January 2012 11:35 (25 minutes)*

**Presenter:** Dr MACHIDA, Shinji (ASTeC STFC Rutherford Appleton Laboratory)

**Session Classification:** Plenary session: Introduction

Contribution ID: 3

Type: **not specified**

## UK plans and goals

*Thursday, 12 January 2012 13:00 (45 minutes)*

**Presenter:** WOMERSLEY, John (STFC)

**Session Classification:** Plenary session: UK and US plans

Contribution ID: 4

Type: **not specified**

## US plans and goals

*Thursday, 12 January 2012 13:45 (45 minutes)*

**Presenter:** Dr ODDONE, Pier (Fermilab)

**Session Classification:** Plenary session: UK and US plans

Contribution ID: 5

Type: **not specified**

## High-Power Targets and Machine Detector Interface

*Thursday, 12 January 2012 15:30 (20 minutes)*

**Presenter:** Mr HURH, Patrick (FNAL)

**Session Classification:** Plenary session: Working group plans

Contribution ID: 6

Type: **not specified**

## Applications of Proton Accelerators

*Thursday, 12 January 2012 15:50 (20 minutes)*

**Presenter:** Dr GOHAR, Yousry (Argonne National Laboratory)

**Session Classification:** Plenary session: Working group plans



Contribution ID: 7

Type: **not specified**

## Introduction

*Friday, 13 January 2012 09:00 (5 minutes)*

**Presenters:** Prof. THOMAS, Jenny (UCL); Mr HURH, Patrick (FNAL); Dr TSCHIRHART, Robert (Fermilab)

**Session Classification:** High Power Targets and Machine/Detector Interface Working Group

Contribution ID: 8

Type: **not specified**

## **Review of High Power Proton Target Challenges**

Contribution ID: 9

Type: **not specified**

## **Thermo-Mechanical Response (simulation and failure criteria)**

**Presenter:** TDB

Contribution ID: **10**

Type: **not specified**

## Flowing Targets

**Presenter:** TBD

Contribution ID: 11

Type: **not specified**

## **Radiation Damage and Radiation Issues**

Contribution ID: 12

Type: **not specified**

## **Review of High Power Proton Target Challenges**

Contribution ID: 13

Type: **not specified**

## **Thermo-mechanical Response (simulation and failure criteria)**

*Friday, 13 January 2012 09:05 (25 minutes)*

**Presenter:** Dr DAVENNE, Tristan (RAL)

**Session Classification:** High Power Targets and Machine/Detector Interface Working Group

Contribution ID: 14

Type: **not specified**

## Flowing Targets

*Friday, 13 January 2012 09:30 (20 minutes)*

**Presenter:** Mr RIEMER, Bernie (ORNL SNS)

**Session Classification:** High Power Targets and Machine/Detector Interface Working Group



Contribution ID: 15

Type: **not specified**

## **Radiation Damage and Radiochemistry Issues**

*Friday, 13 January 2012 09:50 (30 minutes)*

**Presenters:** Dr SIMOS, Nikolaos (BNL); Mr HURH, Patrick (FNAL)

**Session Classification:** High Power Targets and Machine/Detector Interface Working Group

Contribution ID: 16

Type: **not specified**

## Facility Design

*Friday, 13 January 2012 10:30 (30 minutes)*

**Presenter:** Mr FLETCHER, Matt (ISIS)

**Session Classification:** High Power Targets and Machine/Detector Interface Working Group

Contribution ID: 17

Type: **not specified**

## **Radiation Protection and Licensing**

*Friday, 13 January 2012 11:00 (30 minutes)*

**Presenter:** Dr VAZIRI, Kamran (FNAL)

**Session Classification:** High Power Targets and Machine/Detector Interface Working Group

Contribution ID: **18**

Type: **not specified**

## Overview

*Friday, 13 January 2012 11:30 (5 minutes)*

**Presenters:** Prof. THOMAS, Jenny (UCL); Dr TSCHIRHART, Robert (Fermilab)

**Session Classification:** High Power Targets and Machine/Detector Interface Working Group

Contribution ID: 19

Type: **not specified**

## Neutrino (conventional)

*Friday, 13 January 2012 11:35 (25 minutes)*

**Presenter:** Dr ADAMSON, Phil (FNAL)

**Session Classification:** High Power Targets and Machine/Detector Interface Working Group

Contribution ID: 20

Type: **not specified**

## **PX - Kaon, Spallation, Muon**

*Friday, 13 January 2012 12:00 (30 minutes)*

**Presenter:** Prof. LANCASTER, Mark (UCL)

**Session Classification:** High Power Targets and Machine/Detector Interface Working Group

Contribution ID: 21

Type: **not specified**

## ISIS Upgrades

*Friday, 13 January 2012 13:30 (30 minutes)*

**Presenters:** Dr FINDLAY, David (ISIS); Mr FLETCHER, Matt (ISIS)

**Session Classification:** High Power Targets and Machine/Detector Interface Working Group

Contribution ID: 22

Type: **not specified**

## Nu Factory and Muon Collider

*Friday, 13 January 2012 14:00 (30 minutes)*

**Presenter:** Prof. MCDONALD, Kirk (Princeton)

**Session Classification:** High Power Targets and Machine/Detector Interface Working Group



Contribution ID: 23

Type: **not specified**

## ADS

*Friday, 13 January 2012 14:30 (30 minutes)*

**Presenter:** Dr HENDERSON, Stuart (Fermilab)

**Session Classification:** High Power Targets and Machine/Detector Interface Working Group

Contribution ID: 24

Type: **not specified**

## **Other Application (medical/security)**

*Friday, 13 January 2012 15:00 (30 minutes)*

**Presenter:** PEACH, Ken (University of Oxford)

**Session Classification:** High Power Targets and Machine/Detector Interface Working Group

Contribution ID: 25

Type: **not specified**

## Overview of Matrix

*Friday, 13 January 2012 15:45 (15 minutes)*

**Presenters:** Prof. THOMAS, Jenny (UCL); Mr HURH, Patrick (FNAL); Dr TSCHIRHART, Robert (Fermilab)

**Session Classification:** High Power Targets and Machine/Detector Interface Working Group

Contribution ID: 26

Type: **not specified**

## **Low Z Solid Targets (Neutrino, Kaon (?), Muon)**

*Friday, 13 January 2012 16:00 (30 minutes)*

**Presenters:** Prof. THOMAS, Jenny (UCL); Mr HURH, Patrick (FNAL); Dr TSCHIRHART, Robert (Fermilab)

**Session Classification:** High Power Targets and Machine/Detector Interface Working Group

Contribution ID: 27

Type: **not specified**

## **High Z Solid Targets (Spallation, NuFact(?))**

*Friday, 13 January 2012 16:30 (30 minutes)*

**Presenters:** Prof. THOMAS, Jenny (UCL); Mr HURH, Patrick (FNAL); Dr TSCHIRHART, Robert (Fermilab)

**Session Classification:** High Power Targets and Machine/Detector Interface Working Group

Contribution ID: 28

Type: **not specified**

## Flowing Targets (NuFact, Muon Collider, ADS)

*Friday, 13 January 2012 17:00 (30 minutes)*

**Presenters:** Prof. THOMAS, Jenny (UCL); Mr HURH, Patrick (FNAL); Dr TSCHIRHART, Robert (Fermilab)

**Session Classification:** High Power Targets and Machine/Detector Interface Working Group

Contribution ID: 29

Type: **not specified**

## Identification of Collaborative Opportunities

*Friday, 13 January 2012 17:30 (30 minutes)*

**Presenters:** Prof. THOMAS, Jenny (UCL); Mr HURH, Patrick (FNAL); Dr TSCHIRHART, Robert (Fermilab)

**Session Classification:** High Power Targets and Machine/Detector Interface Working Group

Contribution ID: **30**

Type: **not specified**

## **Identification of Collaborative Opportunities (con't)**

*Saturday, 14 January 2012 09:00 (2 hours)*

**Presenters:** Prof. THOMAS, Jenny (UCL); Mr HURH, Patrick (FNAL); Dr TSCHIRHART, Robert (Fermilab)

**Session Classification:** High Power Targets and Machine/Detector Interface Working Group



Contribution ID: **31**

Type: **not specified**

## Writing Assignments

*Saturday, 14 January 2012 11:00 (1h 30m)*

**Session Classification:** High Power Targets and Machine/Detector Interface Working Group

Contribution ID: 32

Type: **not specified**

## **Introduction to thorium/sub critical reactors**

*Friday, 13 January 2012 09:00 (30 minutes)*

**Presenter:** CYWINSKI, Bob

**Session Classification:** Applications of Proton Accelerators Working Group

Contribution ID: 33

Type: **not specified**

## **Accelerator Challenges & ADSR work in the US**

*Friday, 13 January 2012 09:30 (30 minutes)*

**Presenter:** Dr HENDERSON, Stuart (Fermilab)

**Session Classification:** Applications of Proton Accelerators Working Group

Contribution ID: 34

Type: **not specified**

## **Accelerator Challenges & ADSR work in the UK**

*Friday, 13 January 2012 10:00 (30 minutes)*

**Presenter:** OWEN, Hywel

**Session Classification:** Applications of Proton Accelerators Working Group

Contribution ID: 35

Type: **not specified**

## **Introduction to Proton Ion Beam therapy & Medical accelerator work in the UK**

*Friday, 13 January 2012 11:30 (30 minutes)*

**Presenter:** Ms SHEEHY, Suzanne (University of Oxford, John Adams Institute for Accelerator Science)

**Session Classification:** Applications of Proton Accelerators Working Group

Contribution ID: **36**

Type: **not specified**

## **Medical accelerator work in the US**

*Friday, 13 January 2012 12:00 (30 minutes)*

**Presenters:** Dr JOHNSTONE, Carol (Fermilab); KOSCIELNIAK, Shane; TBD

**Session Classification:** Applications of Proton Accelerators Working Group

Contribution ID: 37

Type: **not specified**

## Introduction

*Friday, 13 January 2012 09:00 (15 minutes)*

**Presenters:** THOMASON, John; HOLMES, Stephen (Fermilab)

**Session Classification:** High Power Proton Accelerators

Contribution ID: **38**

Type: **not specified**

## **FETS Overview**

*Friday, 13 January 2012 09:15 (15 minutes)*

**Presenter:** LETCHFORD, Alan

**Session Classification:** High Power Proton Accelerators



Contribution ID: **39**

Type: **not specified**

## **PXIE Test Facility**

*Friday, 13 January 2012 09:30 (15 minutes)*

**Presenter:** NAGAITSEV, Sergei (FNAL)

**Session Classification:** High Power Proton Accelerators

Contribution ID: 40

Type: **not specified**

## Discussion

*Friday, 13 January 2012 09:45 (15 minutes)*

**Session Classification:** High Power Proton Accelerators

Contribution ID: 41

Type: **not specified**

## The ISIS Facility

*Friday, 13 January 2012 10:00 (15 minutes)*

**Presenter:** THOMASON, John

**Session Classification:** High Power Proton Accelerators

Contribution ID: 42

Type: **not specified**

## SNS

*Friday, 13 January 2012 10:15 (15 minutes)*

**Presenter:** PLUM, Mike

**Session Classification:** High Power Proton Accelerators

Contribution ID: 43

Type: **not specified**

## Discussion

*Friday, 13 January 2012 10:30 (15 minutes)*

**Session Classification:** High Power Proton Accelerators

Contribution ID: 44

Type: **not specified**

## **H- Ion Source Development at RAL**

*Friday, 13 January 2012 11:15 (15 minutes)*

**Presenter:** FAIRCLOTH, Dan

**Session Classification:** High Power Proton Accelerators

Contribution ID: 45

Type: **not specified**

## **H- Source Development at FNAL**

*Friday, 13 January 2012 11:30 (15 minutes)*

**Presenter:** BOLLINGER, Dan (FNAL Proton Source Department)

**Session Classification:** High Power Proton Accelerators

Contribution ID: 46

Type: **not specified**

## Discussion

*Friday, 13 January 2012 11:45 (15 minutes)*

**Session Classification:** High Power Proton Accelerators



Contribution ID: 47

Type: **not specified**

## Integrable Optics Test Accelerator

*Friday, 13 January 2012 12:00 (15 minutes)*

**Presenter:** VALISHEV, Alexander (Fermilab)

**Session Classification:** High Power Proton Accelerators

Contribution ID: 48

Type: **not specified**

## **Discussion (including Shinji Machida's talk 'The EMMA Experiment' from plenary session)**

*Friday, 13 January 2012 12:15 (15 minutes)*

**Session Classification:** High Power Proton Accelerators

Contribution ID: 49

Type: **not specified**

## **Novel Diagnostics on FETS and ISIS**

*Friday, 13 January 2012 13:30 (15 minutes)*

**Presenter:** POZIMSKI, Jorgen

**Session Classification:** High Power Proton Accelerators

Contribution ID: 50

Type: **not specified**

## **SRF Development at Fermilab**

*Friday, 13 January 2012 13:45 (15 minutes)*

**Presenter:** KEPHART, Robert Kephart (FNAL)

**Session Classification:** High Power Proton Accelerators

Contribution ID: 51

Type: **not specified**

## Discussion

*Friday, 13 January 2012 14:00 (15 minutes)*

**Session Classification:** High Power Proton Accelerators

Contribution ID: 52

Type: **not specified**

## **Proton Driver Development at RAL**

*Friday, 13 January 2012 14:15 (15 minutes)*

**Presenter:** THOMASON, John

**Session Classification:** High Power Proton Accelerators

Contribution ID: 53

Type: **not specified**

## Project X

*Friday, 13 January 2012 14:30 (15 minutes)*

**Presenter:** HOLMES, Stephen (Fermilab)

**Session Classification:** High Power Proton Accelerators

Contribution ID: 54

Type: **not specified**

## Discussion

*Friday, 13 January 2012 14:45 (15 minutes)*

**Session Classification:** High Power Proton Accelerators



Contribution ID: 55

Type: **not specified**

## **Code Development and Simulation Studies for High Power Machines**

*Friday, 13 January 2012 15:00 (15 minutes)*

**Presenter:** Dr MACHIDA, Shinji (ASTeC STFC Rutherford Appleton Laboratory)

**Session Classification:** High Power Proton Accelerators

Contribution ID: 56

Type: **not specified**

## **Simulation activities at Fermilab**

*Friday, 13 January 2012 15:15 (15 minutes)*

**Presenter:** Dr SHILTSEV, Vladimir (FNAL)

**Session Classification:** High Power Proton Accelerators

Contribution ID: 57

Type: **not specified**

## Discussion

*Friday, 13 January 2012 15:30 (15 minutes)*

**Session Classification:** High Power Proton Accelerators

Contribution ID: 58

Type: **not specified**

## Opening and WG Guidance

*Friday, 13 January 2012 09:00 (10 minutes)*

**Presenters:** Dr PASTERNAK, Jaroslaw (Imperial College/RAF STFC); Dr PALMER, Mark (Cornell University)

**Session Classification:** Muon Accelerators for Particle Physics Working Group

Contribution ID: 59

Type: **not specified**

## **mu2e and g-2 at FNAL**

*Friday, 13 January 2012 09:10 (30 minutes)*

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

**Session Classification:** Muon Accelerators for Particle Physics Working Group

Contribution ID: **60**

Type: **not specified**

## COMET

*Friday, 13 January 2012 09:40 (30 minutes)*

**Presenter:** UCHIDA, Yoshi

**Session Classification:** Muon Accelerators for Particle Physics Working Group

Contribution ID: **61**

Type: **not specified**

## VLENF

*Friday, 13 January 2012 10:10 (30 minutes)*

**Presenter:** Prof. BROSS, Alan (Fermilab)

**Session Classification:** Muon Accelerators for Particle Physics Working Group

Contribution ID: **62**

Type: **not specified**

## **PRISM**

*Friday, 13 January 2012 11:00 (30 minutes)*

**Presenter:** Dr PASTERNAK, Jaroslaw (Imperial College/RAF STFC)

**Session Classification:** Muon Accelerators for Particle Physics Working Group



Contribution ID: 63

Type: **not specified**

## **Next Generation mu2e and g-2 at FNAL**

*Friday, 13 January 2012 11:30 (30 minutes)*

**Presenter:** Dr LEBEDEV, Valeri (Fermilab)

**Session Classification:** Muon Accelerators for Particle Physics Working Group

Contribution ID: **64**

Type: **not specified**

## **IDS-NF**

*Friday, 13 January 2012 12:00 (30 minutes)*

**Presenter:** Mr BLISS, Neil (STFC Daresbury Laboratory)

**Session Classification:** Muon Accelerators for Particle Physics Working Group

Contribution ID: 65

Type: **not specified**

## Muon Collider Options

*Friday, 13 January 2012 12:30 (30 minutes)*

**Presenter:** GEER, Steve (FNAL)

**Session Classification:** Muon Accelerators for Particle Physics Working Group

Contribution ID: **66**

Type: **not specified**

## **MICE 4D Cooling Program**

*Friday, 13 January 2012 14:00 (30 minutes)*

**Presenter:** SOLER, Paul

**Session Classification:** Muon Accelerators for Particle Physics Working Group

Contribution ID: 67

Type: **not specified**

## EMMA FFAG Demonstration

*Friday, 13 January 2012 14:30 (30 minutes)*

**Presenters:** Dr PASTERNAK, Jaroslaw (Imperial College/RAF STFC); Dr MACHIDA, Shinji (ASTeC STFC Rutherford Appleton Laboratory)

**Session Classification:** Muon Accelerators for Particle Physics Working Group

Contribution ID: **68**

Type: **not specified**

## **6D Cooling Options**

*Friday, 13 January 2012 15:00 (30 minutes)*

**Presenter:** Dr PALMER, Robert B (Brookhaven National lab)

**Session Classification:** Muon Accelerators for Particle Physics Working Group

Contribution ID: **69**

Type: **not specified**

## Discussion and Planning

*Friday, 13 January 2012 16:00 (2 hours)*

**Session Classification:** Muon Accelerators for Particle Physics Working Group

Contribution ID: 70

Type: **not specified**

## **Potential Synergies To Target in the US-UK Program**

*Saturday, 14 January 2012 09:00 (30 minutes)*

**Presenter:** Dr ZISMAN, Michael (Lawrence Berkeley National Laboratory)

**Session Classification:** Muon Accelerators for Particle Physics Working Group



Contribution ID: 71

Type: **not specified**

## **Potential Synergies from the UK perspective- working title**

*Saturday, 14 January 2012 09:30 (30 minutes)*

**Presenter:** SERYI, Andrei (SLAC)

**Session Classification:** Muon Accelerators for Particle Physics Working Group

Contribution ID: 72

Type: **not specified**

## **Working Group Preliminary Summary for discussion and feedback**

*Saturday, 14 January 2012 10:00 (30 minutes)*

**Presenters:** Dr PASTERNAK, Jaroslaw (Imperial College/RAF STFC); Dr PALMER, Mark (Cornell University)

**Session Classification:** Muon Accelerators for Particle Physics Working Group

Contribution ID: 73

Type: **not specified**

## Discussion and Documentation of Collaborative Opportunities

*Saturday, 14 January 2012 11:00 (1h 30m)*

**Session Classification:** Muon Accelerators for Particle Physics Working Group

Contribution ID: 74

Type: **not specified**

## **Summary Writing and Documenting of Collaborative Opportunities**

*Saturday, 14 January 2012 11:00 (1h 30m)*

**Session Classification:** RF and Magnets, Fast Acceleration Working Group

Contribution ID: 75

Type: **not specified**

## **High field dipole studies at FNAL**

*Friday, 13 January 2012 14:00 (40 minutes)*

**Presenter:** Dr ZLOBIN, Alexander (Fermilab)

**Session Classification:** RF and Magnets, Fast Acceleration Working Group

Contribution ID: 76

Type: **not specified**

## Helical solenoids for muon colliders

*Friday, 13 January 2012 14:40 (40 minutes)*

**Presenter:** Dr TARTAGLIA, Michael (Fermilab Technical Division Magnet Systems Department Measurements and Analysis Group)

**Session Classification:** RF and Magnets, Fast Acceleration Working Group

Contribution ID: 77

Type: **not specified**

## The use of HTS in HEP magnets

*Friday, 13 January 2012 15:50 (40 minutes)*

**Presenter:** BARZI, Emanuela (Fermilab)

**Session Classification:** RF and Magnets, Fast Acceleration Working Group

Contribution ID: 78

Type: **not specified**

## **European efforts towards next generation magnets**

**Presenter:** Mr DE RIJK, Gijs (CERN)



Contribution ID: 79

Type: **not specified**

## **The PAMELA FFAG magnet designs**

*Friday, 13 January 2012 16:30 (40 minutes)*

**Presenter:** WITTE, Holger

**Session Classification:** RF and Magnets, Fast Acceleration Working Group

Contribution ID: **80**

Type: **not specified**

## **RAL superconducting magnet experience and capabilities**

**Presenter:** BRADSHAW, Tom

Contribution ID: **81**

Type: **not specified**

## **Prospects for Induction Acceleration in FFAGs**

*Friday, 13 January 2012 12:10 (40 minutes)*

**Presenter:** MARKS, Neil

**Session Classification:** RF and Magnets, Fast Acceleration Working Group

Contribution ID: **82**

Type: **not specified**

## Discussion and Planning

Contribution ID: **83**

Type: **not specified**

## Discussion and Planning

*Friday, 13 January 2012 17:10 (50 minutes)*

**Session Classification:** RF and Magnets, Fast Acceleration Working Group

Contribution ID: **84**

Type: **not specified**

## Discussion and Planning

*Friday, 13 January 2012 13:30 (4h 30m)*

**Session Classification:** Applications of Proton Accelerators Working Group

Contribution ID: 85

Type: **not specified**

## Discussion

Contribution ID: **86**

Type: **not specified**

## **Discussion**

*Thursday, 12 January 2012 14:30 (30 minutes)*

**Session Classification:** Plenary session: UK and US plans



Contribution ID: 87

Type: **not specified**

## High-power Proton Accelerators

*Thursday, 12 January 2012 16:10 (20 minutes)*

**Presenter:** HOLMES, Stephen (Fermilab)

**Session Classification:** Plenary session: Working group plans

Contribution ID: **88**

Type: **not specified**

## **Muon Accelerators for Particle Physics**

*Thursday, 12 January 2012 16:30 (20 minutes)*

**Presenter:** Dr PALMER, Mark (Cornell University)

**Session Classification:** Plenary session: Working group plans

Contribution ID: **89**

Type: **not specified**

## **RF and Magnets, Fast Acceleration**

*Thursday, 12 January 2012 16:50 (20 minutes)*

**Presenter:** CLARKE, Jim

**Session Classification:** Plenary session: Working group plans

Contribution ID: **90**

Type: **not specified**

## **Discussion**

*Thursday, 12 January 2012 17:10 (50 minutes)*

**Session Classification:** Plenary session: Working group plans

Contribution ID: **91**

Type: **not specified**

## **High-power Targets and Machine Detector Interface**

*Saturday, 14 January 2012 13:30 (20 minutes)*

**Session Classification:** Plenary session: working group reports

Contribution ID: 92

Type: **not specified**

## **Applications of Proton Accelerators**

*Saturday, 14 January 2012 13:50 (20 minutes)*

**Presenter:** OWEN, Hywel

**Session Classification:** Plenary session: working group reports

Contribution ID: 93

Type: **not specified**

## High-power Proton Accelerators

*Saturday, 14 January 2012 14:10 (20 minutes)*

**Presenter:** Dr THOMASON, John (STFC)

**Session Classification:** Plenary session: working group reports

Contribution ID: 94

Type: **not specified**

## **Muon Accelerators for Particle Physics**

*Saturday, 14 January 2012 14:30 (20 minutes)*

**Presenter:** Dr PASTERNAK, Jaroslaw (Imperial College/RAF STFC)

**Session Classification:** Plenary session: working group reports



Contribution ID: 95

Type: **not specified**

## **RF and Magnets, Fast Acceleration**

*Saturday, 14 January 2012 14:50 (20 minutes)*

**Presenter:** CLARKE, Jim

**Session Classification:** Plenary session: working group reports

Contribution ID: **96**

Type: **not specified**

## **Discussion**

*Saturday, 14 January 2012 15:10 (20 minutes)*

**Session Classification:** Plenary session: working group reports

Contribution ID: 97

Type: **not specified**

## **Wrap-up and Presentation of Conclusions**

*Saturday, 14 January 2012 16:00 (1 hour)*

**Presenter:** KIM, Young-Kee (FNAL)

**Session Classification:** Plenary session: wrap-up

Contribution ID: **98**

Type: **not specified**

## **Parallel Discussion Sessions**

*Friday, 13 January 2012 16:00 (2 hours)*

**Session Classification:** High Power Proton Accelerators

Contribution ID: 99

Type: **not specified**

## **Discussion of Collaborative Opportunites**

*Saturday, 14 January 2012 09:00 (1h 30m)*

**Session Classification:** High Power Proton Accelerators

Contribution ID: **100**

Type: **not specified**

## **Preparation of Working Group Presentation**

*Saturday, 14 January 2012 11:00 (1h 30m)*

**Session Classification:** High Power Proton Accelerators

Contribution ID: **101**

Type: **not specified**

## **800 MeV Strong-Focusing Cyclotron**

*Saturday, 14 January 2012 09:00 (40 minutes)*

**Presenter:** Prof. MCINTYRE, Peter (Texas A&M University)

**Session Classification:** RF and Magnets, Fast Acceleration Working Group

Contribution ID: **102**

Type: **not specified**

## **Advances in Proton Linac Design & Simulation**

*Friday, 13 January 2012 10:50 (40 minutes)*

**Presenter:** Dr OSTROUMOV, Peter (Argonne National Laboratory)

**Session Classification:** RF and Magnets, Fast Acceleration Working Group



Contribution ID: **103**

Type: **not specified**

## **Superconducting Materials for SRF & High Field Magnets**

*Friday, 13 January 2012 11:30 (40 minutes)*

**Presenter:** Dr COOLEY, Lance (Fermilab)

**Session Classification:** RF and Magnets, Fast Acceleration Working Group

Contribution ID: **104**

Type: **not specified**

## **Superconducting RF for Linear Hadron Accelerators**

*Friday, 13 January 2012 09:00 (40 minutes)*

**Presenter:** Mr YAKOVLEV, Vyacheslav (FNAL)

**Session Classification:** RF and Magnets, Fast Acceleration Working Group

Contribution ID: **105**

Type: **not specified**

# **Superconducting RF Operational Experience at FNAL**

*Friday, 13 January 2012 09:40 (40 minutes)*

**Presenter:** HARMS, Elvin (Fermilab)

**Session Classification:** RF and Magnets, Fast Acceleration Working Group

Contribution ID: **106**

Type: **not specified**

## **Identification of Potential Synergies**

*Saturday, 14 January 2012 09:40 (50 minutes)*

**Session Classification:** RF and Magnets, Fast Acceleration Working Group

Contribution ID: **107**

Type: **not specified**

## **ADS Activity at Argonne National Laboratory**

*Friday, 13 January 2012 11:00 (30 minutes)*

**Presenter:** Dr GOHAR, Yousry (Argonne National Laboratory)

**Session Classification:** Applications of Proton Accelerators Working Group