

WATCHMAN Collaboration Meeting 2019



Report of Contributions

Contribution ID: 6

Type: **not specified**

Project and Meeting Overview

Friday, January 11, 2019 8:30 AM (30 minutes)

Primary author: BERNSTEN, Adam

Presenter: BERNSTEN, Adam

Session Classification: Full Collaboration Meeting

Contribution ID: 7

Type: **not specified**

Project Management Overview - Subsystem Leads and CDR process

Friday, January 11, 2019 9:00 AM (25 minutes)

Primary author: HILLS, Rob

Presenter: HILLS, Rob

Session Classification: Full Collaboration Meeting

Contribution ID: 8

Type: **not specified**

Reference Detector Design

Friday, January 11, 2019 9:25 AM (25 minutes)

Primary author: MAUGER, Chris

Presenter: MAUGER, Chris

Session Classification: Full Collaboration Meeting

Contribution ID: 9

Type: **not specified**

Boulby Site Update

Friday, January 11, 2019 9:50 AM (20 minutes)

Primary author: PALING, Sean (Boulby Underground Science Facility)

Presenter: PALING, Sean (Boulby Underground Science Facility)

Session Classification: Full Collaboration Meeting

Contribution ID: **10**

Type: **not specified**

AWE Status Update

Friday, January 11, 2019 10:10 AM (20 minutes)

Primary author: BURNS, Jon (AWE plc)

Presenter: BURNS, Jon (AWE plc)

Session Classification: Full Collaboration Meeting

Contribution ID: **11**

Type: **not specified**

U.S. Academic Status

Friday, January 11, 2019 10:50 AM (20 minutes)

Presenter: VAGINS, Mark

Session Classification: Full Collaboration Meeting

Contribution ID: 12

Type: **not specified**

U.K. Academic Status

Friday, January 11, 2019 11:10 AM (20 minutes)

Presenter: MALEK, Matthew

Session Classification: Full Collaboration Meeting

Contribution ID: **13**

Type: **not specified**

Analysis overview and sensitivity goals

Friday, January 11, 2019 1:00 PM (30 minutes)

Primary author: Dr BERGEVIN, Marc (LLNL)

Presenter: Dr BERGEVIN, Marc (LLNL)

Session Classification: Full Collaboration Meeting

Contribution ID: 14

Type: **not specified**

Blind analysis for on/off cycle observation

Friday, January 11, 2019 1:30 PM (20 minutes)

Primary author: GRIBBLE, Jeremy

Presenter: GRIBBLE, Jeremy

Session Classification: Full Collaboration Meeting

Contribution ID: 15

Type: **not specified**

Unblind analysis for on/off cycle observation

Friday, January 11, 2019 1:50 PM (20 minutes)

Presenter: PERSHING, Teal

Session Classification: Full Collaboration Meeting

Contribution ID: 16

Type: **not specified**

Initial study of extrapolation to large detectors/long standoff

Friday, January 11, 2019 2:10 PM (20 minutes)

Primary author: Dr LI, Viacheslav (LLNL)

Presenter: Dr LI, Viacheslav (LLNL)

Session Classification: Full Collaboration Meeting

Contribution ID: 17

Type: **not specified**

Effect of systematics on on/off cycle observation

Friday, January 11, 2019 2:30 PM (20 minutes)

Primary author: Ms KNEALE, Elisabeth (University of Sheffield)

Presenter: Ms KNEALE, Elisabeth (University of Sheffield)

Session Classification: Full Collaboration Meeting

Contribution ID: **18**

Type: **not specified**

Nudar @ WATCHMAN

Friday, January 11, 2019 2:50 PM (25 minutes)

Presenter: LEARNED, John (University of Hawaii)

Session Classification: Full Collaboration Meeting

Contribution ID: 19

Type: **not specified**

Nonproliferation Treaties Overview and context (remote presentation)

Friday, January 11, 2019 3:30 PM (30 minutes)

Presenter: DALNOKI-VERESS, Ferenc

Session Classification: Full Collaboration Meeting

Contribution ID: **20**

Type: **not specified**

Discussion

Friday, January 11, 2019 4:30 PM (30 minutes)

Full Collaboration

Session Classification: Full Collaboration Meeting

Contribution ID: **21**

Type: **not specified**

The WATCHMAN Logo

if available

Session Classification: Full Collaboration Meeting

Contribution ID: 23

Type: **not specified**

CDR Overview

Saturday, January 12, 2019 8:30 AM (45 minutes)

Primary author: HILLS, Rob (LLNL)

Presenter: HILLS, Rob (LLNL)

Session Classification: Full Collaboration Meeting

Contribution ID: 24

Type: **not specified**

Detector Integration

Contribution ID: 25

Type: **not specified**

Test Program

Saturday, January 12, 2019 9:15 AM (30 minutes)

Primary author: Mr PAPATYI, Tony (PNNL)

Presenter: Mr PAPATYI, Tony (PNNL)

Session Classification: Full Collaboration Meeting

Contribution ID: 26

Type: **not specified**

Cleanliness Program

Friday, January 11, 2019 4:00 PM (30 minutes)

Primary author: DYE, Stephen (Hawaii Pacific Univesity)

Presenter: DYE, Stephen (Hawaii Pacific Univesity)

Session Classification: Full Collaboration Meeting

Contribution ID: 27

Type: **not specified**

Calibration Program Overview

Saturday, January 12, 2019 10:00 AM (10 minutes)

Primary authors: MAUGER, Chris; Dr DAZELEY, Steve (LLNL)

Presenters: MAUGER, Chris; Dr DAZELEY, Steve (LLNL)

Session Classification: Full Collaboration Meeting

Contribution ID: **28**

Type: **not specified**

Site

Saturday, January 12, 2019 11:00 AM (30 minutes)

Presenter: BURNS, Jon

Session Classification: Full Collaboration Meeting

Contribution ID: **29**

Type: **not specified**

Tank

Saturday, January 12, 2019 1:15 PM (30 minutes)

Primary author: SPOONER, Neil (University of Sheffield)

Presenter: SPOONER, Neil (University of Sheffield)

Session Classification: Full Collaboration Meeting

Contribution ID: **30**

Type: **not specified**

PMTs

Saturday, January 12, 2019 1:45 PM (30 minutes)

Primary author: SVOBODA, Robert (UC Davis)

Presenter: SVOBODA, Robert (UC Davis)

Session Classification: Full Collaboration Meeting

Contribution ID: **31**

Type: **not specified**

DAQ

Saturday, January 12, 2019 2:15 PM (30 minutes)

Primary author: COWEN, Doug (Penn State)

Presenter: COWEN, Doug (Penn State)

Session Classification: Full Collaboration Meeting

Contribution ID: **32**

Type: **not specified**

REBAM

Saturday, January 12, 2019 2:45 PM (30 minutes)

Primary authors: MAUGER, Chris; BARROS, Nuno (University of Pennsylvania)

Presenters: MAUGER, Chris; BARROS, Nuno (University of Pennsylvania)

Session Classification: Full Collaboration Meeting

Contribution ID: **33**

Type: **not specified**

HV

Saturday, January 12, 2019 3:30 PM (30 minutes)

Primary author: GRANT, Chris (Boston University)

Presenter: GRANT, Chris (Boston University)

Session Classification: Full Collaboration Meeting

Contribution ID: **34**

Type: **not specified**

Water System

Saturday, January 12, 2019 4:00 PM (30 minutes)

Primary author: VAGINS, Mark

Presenter: VAGINS, Mark

Session Classification: Full Collaboration Meeting

Contribution ID: 35

Type: **not specified**

Simulations Overview

Saturday, January 12, 2019 4:30 PM (15 minutes)

Primary author: BERGEVIN, Marc

Presenter: BERGEVIN, Marc

Session Classification: Full Collaboration Meeting

Contribution ID: 36

Type: **not specified**

Future R & D

Sunday, January 13, 2019 8:30 AM (30 minutes)

Primary authors: GRANT, Chris (Boston University); Dr MALEK, Matthew (University of Sheffield)
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Presenters: GRANT, Chris (Boston University); Dr MALEK, Matthew (University of Sheffield)
)

Session Classification: Full Collaboration Meeting

Contribution ID: 37

Type: **not specified**

Discussion

Sunday, January 13, 2019 9:00 AM (1 hour)

Session Classification: Full Collaboration Meeting

Contribution ID: **38**

Type: **not specified**

Publications Board

Sunday, January 13, 2019 10:15 AM (15 minutes)

Primary author: Prof. GANN, Gabriel Orebi (UC Berkeley / LBNL)

Presenter: Prof. GANN, Gabriel Orebi (UC Berkeley / LBNL)

Session Classification: Full Collaboration Meeting

Contribution ID: 39

Type: **not specified**

Conceptual Design Paper

Sunday, January 13, 2019 10:30 AM (10 minutes)

Primary authors: Prof. VAGINS, Mark (UC Irvine); SPOONER, Neil (University of Sheffield)

Presenters: Prof. VAGINS, Mark (UC Irvine); SPOONER, Neil (University of Sheffield)

Session Classification: Full Collaboration Meeting

Contribution ID: 40

Type: **not specified**

Speakers Board

Sunday, January 13, 2019 10:40 AM (20 minutes)

Presenter: DALNOKI-VERESS, Ferenc

Session Classification: Full Collaboration Meeting

Contribution ID: 41

Type: **not specified**

Main Meeting Summary and Next Steps

Sunday, January 13, 2019 11:00 AM (25 minutes)

Primary author: Dr BERNSTEN, Adam (Lawrence Livermore National Laboratory)

Presenter: Dr BERNSTEN, Adam (Lawrence Livermore National Laboratory)

Session Classification: Full Collaboration Meeting

Contribution ID: 42

Type: **not specified**

Discussion and Main Meeting Closeout

Sunday, January 13, 2019 11:25 AM (1h 5m)

Full Collaboration

Session Classification: Full Collaboration Meeting

Contribution ID: 43

Type: **not specified**

Institutional Board Meeting

Sunday, January 13, 2019 1:30 PM (1h 30m)

Jon Burns lead

Primary author: BURNS, Jon

Presenter: BURNS, Jon

Session Classification: Full Collaboration Meeting

Contribution ID: 44

Type: **not specified**

Subsystem Lead Meeting

Sunday, January 13, 2019 3:15 PM (1 hour)

Rob Hills lead

Primary author: HILLS, Rob

Presenter: HILLS, Rob

Session Classification: Full Collaboration Meeting

Contribution ID: 45

Type: **not specified**

Results from 2018 Testing

Thursday, January 10, 2019 8:00 AM (45 minutes)

Primary author: SMITH, Gary (University of Edinburgh)

Presenter: SMITH, Gary (University of Edinburgh)

Session Classification: PMT WG

Contribution ID: 46

Type: **not specified**

Review of PMT LA vrs SA Sensitivity and Requirements

Thursday, January 10, 2019 8:45 AM (45 minutes)

Session Classification: PMT WG

Contribution ID: 47

Type: **not specified**

PMT Cost and Schedule, LA vrs SA

Thursday, January 10, 2019 9:50 AM (30 minutes)

Session Classification: PMT WG

Contribution ID: 48

Type: **not specified**

PMT Mechanical Testing Program

Thursday, January 10, 2019 10:20 AM (40 minutes)

Session Classification: PMT WG

Contribution ID: 49

Type: **not specified**

Acrylic Covers

Thursday, January 10, 2019 12:00 PM (1 hour)

Do we need them? What are the effects?

Session Classification: PMT WG

Contribution ID: 50

Type: **not specified**

Other costs: DAQ/HV/Mounting/Assembly

Thursday, January 10, 2019 1:00 PM (1 hour)

Session Classification: PMT WG

Contribution ID: 51

Type: **not specified**

Walk through testing and installation steps (with updated info)

Thursday, January 10, 2019 2:20 PM (1h 40m)

Need to produce preliminary plan for CDR

Session Classification: PMT WG

Contribution ID: 52

Type: **not specified**

System Status Reports

Session Classification: DAQ WG

Contribution ID: 53

Type: **not specified**

CAEN

Thursday, January 10, 2019 8:00 AM (30 minutes)

Session Classification: DAQ WG

Contribution ID: 54

Type: **not specified**

ANNIE/KOTO

Thursday, January 10, 2019 8:30 AM (30 minutes)

Session Classification: DAQ WG

Contribution ID: 55

Type: **not specified**

TARGET

Thursday, January 10, 2019 9:00 AM (30 minutes)

Session Classification: DAQ WG

Contribution ID: 56

Type: **not specified**

Purpose of CDR/PDR

Thursday, January 10, 2019 10:00 AM (15 minutes)

Session Classification: DAQ WG

Contribution ID: 57

Type: **not specified**

CDR: known system risks, challenges

Thursday, January 10, 2019 10:15 AM (30 minutes)

Session Classification: DAQ WG

Contribution ID: 58

Type: **not specified**

PDR: Common and specific performance milestones & schedule; re-evaluate requirements

Thursday, January 10, 2019 10:45 AM (1h 15m)

Session Classification: DAQ WG

Contribution ID: 59

Type: **not specified**

PDR: Test procedures, performance criteria

Thursday, January 10, 2019 1:00 PM (30 minutes)

Session Classification: DAQ WG

Contribution ID: **60**

Type: **not specified**

PDR: System bandwidths (define assumed compression factors)

Thursday, January 10, 2019 1:30 PM (15 minutes)

Session Classification: DAQ WG

Contribution ID: **61**

Type: **not specified**

PDR: Cost estimation (define DAQ HW boundary)

Thursday, January 10, 2019 1:45 PM (15 minutes)

Session Classification: DAQ WG

Contribution ID: **62**

Type: **not specified**

Interfaces of DAQ with other systems

Thursday, January 10, 2019 2:00 PM (30 minutes)

Session Classification: DAQ WG

Contribution ID: **63**

Type: **not specified**

Interfaces (jointly with HV, REBAM, Site...)

Thursday, January 10, 2019 3:00 PM (1 hour)

Session Classification: DAQ WG

Contribution ID: **64**

Type: **not specified**

Discussion

Friday, January 11, 2019 11:30 AM (30 minutes)

Session Classification: Full Collaboration Meeting

Contribution ID: 65

Type: **not specified**

AmBe/DT source studies

Saturday, January 12, 2019 10:30 AM (15 minutes)

Primary author: Dr ASKINS, Morgan (U. Berkeley)

Presenter: Dr ASKINS, Morgan (U. Berkeley)

Session Classification: Full Collaboration Meeting

Contribution ID: **66**

Type: **not specified**

Systematic Uncertainties in Background

Saturday, January 12, 2019 10:45 AM (15 minutes)

Primary author: KNEALE, Liz

Presenter: KNEALE, Liz

Session Classification: Full Collaboration Meeting

Contribution ID: 67

Type: **not specified**

Muon veto study

Saturday, January 12, 2019 4:45 PM (15 minutes)

Primary author: AKINDELE, Tomi (LLNL)

Presenter: AKINDELE, Tomi (LLNL)

Session Classification: Full Collaboration Meeting

Contribution ID: 68

Type: **not specified**

SuperK benchmarking, WATCHMAN reconstruction and performance optimization

Saturday, January 12, 2019 5:00 PM (20 minutes)

Primary author: Dr SMY, Michael

Presenter: Dr SMY, Michael

Session Classification: Full Collaboration Meeting

Contribution ID: **69**

Type: **not specified**

PMT tilt study

Saturday, January 12, 2019 5:20 PM (15 minutes)

Primary author: Mr PERSHING, Teal (UC Davis)

Presenter: Mr PERSHING, Teal (UC Davis)

Session Classification: Full Collaboration Meeting

Contribution ID: 70

Type: **not specified**

US-UK Project Coordination

Integrated Project Team

Session Classification: Full Collaboration Meeting

Contribution ID: 71

Type: **not specified**

Light Injection System

Saturday, January 12, 2019 10:10 AM (10 minutes)

remote

Primary author: METELKO, Carl

Presenter: METELKO, Carl

Session Classification: Full Collaboration Meeting

Contribution ID: 72

Type: **not specified**

2-ton detector at Sheffield for calibration

Saturday, January 12, 2019 10:20 AM (10 minutes)

Primary author: Dr MALEK, Matthew (University of Sheffield)

Presenter: Dr MALEK, Matthew (University of Sheffield)

Session Classification: Full Collaboration Meeting

Contribution ID: 73

Type: **not specified**

Collaboration Photograph

Saturday, January 12, 2019 11:30 AM (15 minutes)

Session Classification: Full Collaboration Meeting