

# **ARA Collaboration Meeting**



**ASKARYAN RADIO ARRAY**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## NSF & Overall Status

*Wednesday, 22 July 2015 09:00 (20 minutes)*

**Presenter:** KARLE, Albrecht (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** Project Status

**Track Classification:** Project Status

Contribution ID: 1

Type: **not specified**

## Japanese project status

*Wednesday, 22 July 2015 09:20 (20 minutes)*

**Presenter:** MASE, Keiichi (o=chiba,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** Project Status

**Track Classification:** Project Status

Contribution ID: 2

Type: **not specified**

## **Taiwan status (will be over lunch via phone)**

*Wednesday, 22 July 2015 09:40 (1 minute)*

**Presenter:** CHEN, Pisin

**Session Classification:** Project Status

Contribution ID: 3

Type: **not specified**

## General discussion

*Wednesday, 22 July 2015 09:41 (19 minutes)*

**Session Classification:** Project Status

Contribution ID: 4

Type: **not specified**

## TestBed Analysis

*Wednesday, 22 July 2015 10:00 (10 minutes)*

**Session Classification:** Paper Status

**Track Classification:** Paper Status: testbed, GRB, ARA2/3

Contribution ID: 5

Type: **not specified**

## GRB Analysis

*Wednesday, 22 July 2015 10:10 (10 minutes)*

**Presenter:** Dr PFENDNER, Carl (Ohio State University)

**Session Classification:** Paper Status

**Track Classification:** Paper Status: testbed, GRB, ARA2/3

Contribution ID: 6

Type: **not specified**

## ARA2-3

*Wednesday, 22 July 2015 10:20 (10 minutes)*

**Presenter:** MEURES, Thomas (o=ulb,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** Paper Status

**Track Classification:** Paper Status: testbed, GRB, ARA2/3



Contribution ID: 7

Type: **not specified**

## **ICRC papers/talks**

*Wednesday, 22 July 2015 10:30 (15 minutes)*

**Session Classification:** Paper Status

**Track Classification:** Paper Status: testbed, GRB, ARA2/3

Contribution ID: 8

Type: **not specified**

## Other upcoming conferences

*Wednesday, 22 July 2015 10:45 (15 minutes)*

**Session Classification:** Paper Status

**Track Classification:** Paper Status: testbed, GRB, ARA2/3

Contribution ID: 9

Type: **not specified**

## Surface antennas

*Wednesday, 22 July 2015 11:00 (30 minutes)*

**Presenter:** Mr BESSON, David (KU)

**Session Classification:** Other Analysis

**Track Classification:** Other Analysis: Surface Antennas

Contribution ID: **10**

Type: **not specified**

## **ARA2+ analysis**

*Wednesday, 22 July 2015 11:30 (30 minutes)*

**Presenter:** Dr PFENDNER, Carl (Ohio State University)

**Session Classification:** Other Analysis

**Track Classification:** Other Analysis: Surface Antennas

Contribution ID: 11

Type: **not specified**

## Taiwan status report

*Wednesday, 22 July 2015 12:00 (20 minutes)*

**Presenter:** CHEN, Pisin

**Session Classification:** Working lunch - food will be provided

**Track Classification:** Working Lunch

Contribution ID: 12

Type: **not specified**

## Operations

*Wednesday, 22 July 2015 13:00 (20 minutes)*

**Presenter:** Ó MURCHADHA, Aongus (Université Libre de Bruxelles)

**Session Classification:** Operations

**Track Classification:** Operations

Contribution ID: 13

Type: **not specified**

## **Discussion of future plans, especially s/w**

*Wednesday, 22 July 2015 13:40 (20 minutes)*

**Presenter:** Dr NICHOL, Ryan (UCL)

**Session Classification:** Operations

**Track Classification:** Operations

Contribution ID: 14

Type: **not specified**

## Calibration overview

*Wednesday, 22 July 2015 14:00 (15 minutes)*

**Presenter:** Prof. HOFFMAN, Kara (o=umd,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** Calibration

**Track Classification:** Calibration



Contribution ID: 15

Type: **not specified**

## Antenna calibrations

*Wednesday, 22 July 2015 14:15 (15 minutes)*

**Presenter:** MASE, Keiichi (o=chiba,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** Calibration

**Track Classification:** Calibration

Contribution ID: 16

Type: **not specified**

## Optical system calibration

*Wednesday, 22 July 2015 14:30 (15 minutes)*

**Presenter:** MASE, Keiichi (o=chiba,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** Calibration

**Track Classification:** Calibration

Contribution ID: 17

Type: **not specified**

## Discussion and future plans

*Wednesday, 22 July 2015 14:45 (15 minutes)*

**Session Classification:** Calibration

**Track Classification:** Calibration

Contribution ID: **18**

Type: **not specified**

## **ARA Sim**

*Wednesday, 22 July 2015 15:00 (20 minutes)*

**Presenter:** Dr PFENDNER, Carl (Ohio State University)

**Session Classification:** ARA-sim

**Track Classification:** ARA-sim

Contribution ID: **19**

Type: **not specified**

## **ARA Sim QC**

*Wednesday, 22 July 2015 15:20 (20 minutes)*

**Presenter:** Mr CLARK, Brian (The Ohio State University)

**Session Classification:** ARA-sim

**Track Classification:** ARA-sim

Contribution ID: 20

Type: **not specified**

## Discussion and future plans

*Wednesday, 22 July 2015 15:50 (10 minutes)*

**Session Classification:** ARA-sim

**Track Classification:** ARA-sim

Contribution ID: 21

Type: **not specified**

## Splines

*Wednesday, 22 July 2015 16:00 (15 minutes)*

**Presenter:** KELLEY, John (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** Ice Studies

**Track Classification:** Ice Studies

Contribution ID: 22

Type: **not specified**

## **Radiosplines**

*Wednesday, 22 July 2015 16:15 (15 minutes)*

**Presenter:** LU, Ming-Yuan (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** Ice Studies

**Track Classification:** Ice Studies



Contribution ID: 23

Type: **not specified**

## Deep pulser

*Wednesday, 22 July 2015 16:30 (15 minutes)*

**Presenter:** MORSE, Bob (IceCube 222)

**Session Classification:** Ice Studies

**Track Classification:** Ice Studies

Contribution ID: 24

Type: **not specified**

## Discussions

*Wednesday, 22 July 2015 16:45 (15 minutes)*

**Session Classification:** Ice Studies

**Track Classification:** Ice Studies

Contribution ID: 25

Type: **not specified**

## **ARA1 repair**

*Thursday, 23 July 2015 09:00 (20 minutes)*

**Presenter:** DUVERNOIS, Michael (University of Wisconsin–Madison)

**Session Classification:** Existing stations

**Track Classification:** Existing Stations

Contribution ID: 26

Type: **not specified**

## Improvements & discussion

*Thursday, 23 July 2015 09:20 (20 minutes)*

**Session Classification:** Existing stations

**Track Classification:** Existing Stations

Contribution ID: 27

Type: **not specified**

## **We'll move something from the afternoon h/w session**

*Thursday, 23 July 2015 09:40 (20 minutes)*

**Session Classification:** Existing stations

**Track Classification:** Existing Stations

Contribution ID: 28

Type: **not specified**

## Hardware status & related items

*Thursday, 23 July 2015 10:00 (20 minutes)*

**Presenter:** Dr ALLISON, Patrick (Ohio State University)

**Session Classification:** ARA4 - ARA7 Status and Plans

Contribution ID: 29

Type: **not specified**

## **Discussion & near term plans**

*Thursday, 23 July 2015 10:20 (40 minutes)*

**Session Classification:** ARA4 - ARA7 Status and Plans

Contribution ID: **30**

Type: **not specified**

## **Support landscape**

*Thursday, 23 July 2015 11:00 (10 minutes)*

**Presenter:** HAUGEN, Jim (University of Wisconsin–Madison)

**Session Classification:** 2015 & 2016 On-Ice Plans

**Track Classification:** 2015 & 2016 On-Ice Plans



Contribution ID: **31**

Type: **not specified**

## **What are we going to deploy?**

*Thursday, 23 July 2015 11:10 (30 minutes)*

**Session Classification:** 2015 & 2016 On-Ice Plans

**Track Classification:** 2015 & 2016 On-Ice Plans

Contribution ID: 32

Type: **not specified**

## **Make schedule & deliberables**

*Thursday, 23 July 2015 11:40 (20 minutes)*

**Session Classification:** 2015 & 2016 On-Ice Plans

**Track Classification:** 2015 & 2016 On-Ice Plans

Contribution ID: 33

Type: **not specified**

## ARA hot water drill

*Thursday, 23 July 2015 15:00 (20 minutes)*

**Presenter:** BENSON, Terry (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** ARA Drill Program

**Track Classification:** ARA Drill Program

Contribution ID: 34

Type: **not specified**

## **Smaller drill options (RAM etc.)**

*Thursday, 23 July 2015 15:20 (10 minutes)*

**Session Classification:** ARA Drill Program

**Track Classification:** ARA Drill Program

Contribution ID: 35

Type: **not specified**

## Discussion

*Thursday, 23 July 2015 15:30 (30 minutes)*

**Session Classification:** ARA Drill Program

**Track Classification:** ARA Drill Program

Contribution ID: **36**

Type: **not specified**

## **DRS4, call in from Israel**

*Thursday, 23 July 2015 13:00 (1 minute)*

**Session Classification:** New Technologies

**Track Classification:** New Tech / Ideas, Digitizers, Antennas

Contribution ID: 37

Type: **not specified**

## ARAcAlTA

*Thursday, 23 July 2015 13:01 (15 minutes)*

**Presenter:** MASE, Keiichi (o=chiba,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** New Technologies

**Track Classification:** New Tech / Ideas, Digitizers, Antennas

Contribution ID: **38**

Type: **not specified**

## **Interferometry (delay to Friday)**

*Thursday, 23 July 2015 13:16 (15 minutes)*

**Presenter:** VIEREGG, Abigail (o=research,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** New Technologies

**Track Classification:** New Tech / Ideas, Digitizers, Antennas



Contribution ID: 39

Type: **not specified**

## Other topics? Discussion

Contribution ID: 40

Type: **not specified**

## Reconstruction

*Thursday, 23 July 2015 14:00 (20 minutes)*

**Presenter:** SHULTZ, Andrew (University of Nebraska - Lincoln)

**Session Classification:** Trigger & reconstruction

**Track Classification:** Trigger and Reconstruction

Contribution ID: 41

Type: **not specified**

## Triggering

*Thursday, 23 July 2015 14:20 (20 minutes)*

**Presenter:** LU, Ming-Yuan (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** Trigger & reconstruction

**Track Classification:** Trigger and Reconstruction

Contribution ID: 42

Type: **not specified**

## Hello from Abby/Chicago

*Thursday, 23 July 2015 16:00 (10 minutes)*

**Presenter:** VIEREGG, Abigail (o=research,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** Collaboration planning

**Track Classification:** Collaboration Planning, New Members, Future Meetings

Contribution ID: 43

Type: **not specified**

## Hello from Stephanie/Cal State

*Thursday, 23 July 2015 16:10 (10 minutes)*

**Presenter:** Dr WISSEL, Stephanie (California Polytechnic State University)

**Session Classification:** Collaboration planning

**Track Classification:** Collaboration Planning, New Members, Future Meetings

Contribution ID: 44

Type: **not specified**

## **Collaboration procedures etc.**

*Thursday, 23 July 2015 16:20 (20 minutes)*

**Session Classification:** Collaboration planning

**Track Classification:** Collaboration Planning, New Members, Future Meetings

Contribution ID: 45

Type: **not specified**

## Next collaboration meeting

*Thursday, 23 July 2015 16:40 (20 minutes)*

**Session Classification:** Collaboration planning

**Track Classification:** Collaboration Planning, New Members, Future Meetings

Contribution ID: 46

Type: **not specified**

## **Schedule & deliverables**

*Friday, 24 July 2015 09:00 (30 minutes)*

**Session Classification:** Schedule & Deliverables

**Track Classification:** Schedule & Deliverables



Contribution ID: 47

Type: **not specified**

## To do list

*Friday, 24 July 2015 09:30 (30 minutes)*

**Session Classification:** Schedule & Deliverables

**Track Classification:** Schedule & Deliverables

Contribution ID: 48

Type: **not specified**

## **New proposals/sources of funding**

*Friday, 24 July 2015 10:00 (20 minutes)*

**Session Classification:** Budget & Proposals

**Track Classification:** Budget & Proposals

Contribution ID: 49

Type: **not specified**

## **Money needs & availability**

*Friday, 24 July 2015 10:20 (20 minutes)*

**Session Classification:** Budget & Proposals

**Track Classification:** Budget & Proposals

Contribution ID: 50

Type: **not specified**

## **R&D contributions/efforts**

*Friday, 24 July 2015 10:40 (20 minutes)*

**Session Classification:** Budget & Proposals

**Track Classification:** Budget & Proposals

Contribution ID: 51

Type: **not specified**

## **What add-ons do we want?**

*Friday, 24 July 2015 11:00 (20 minutes)*

**Session Classification:** Any Remaining Business

**Track Classification:** Any Remaining Business

Contribution ID: 52

Type: **not specified**

## **Design/trade studies**

*Friday, 24 July 2015 11:20 (20 minutes)*

**Session Classification:** Any Remaining Business

**Track Classification:** Any Remaining Business

Contribution ID: 53

Type: **not specified**

## **Last call for discussions**

*Friday, 24 July 2015 11:40 (20 minutes)*

**Session Classification:** Any Remaining Business

**Track Classification:** Any Remaining Business

Contribution ID: 54

Type: **not specified**

## Reconstruction framework

*Wednesday, 22 July 2015 13:20 (20 minutes)*

**Presenter:** BORA, Christian

**Session Classification:** Operations

**Track Classification:** Operations



Contribution ID: 55

Type: **not specified**

## Timing array

*Thursday, 23 July 2015 13:31 (15 minutes)*

**Presenter:** Mr SANDSTROM, Perry (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** New Technologies

**Track Classification:** New Tech / Ideas, Digitizers, Antennas

Contribution ID: 56

Type: **not specified**

## **Bipolar triggering**

*Thursday, 23 July 2015 13:46 (14 minutes)*

**Presenter:** KIRCHHOFF, Kevin

**Session Classification:** New Technologies

**Track Classification:** New Tech / Ideas, Digitizers, Antennas

Contribution ID: 57

Type: **not specified**

## Discussion

*Thursday, 23 July 2015 14:40 (20 minutes)*

**Session Classification:** Trigger & reconstruction

**Track Classification:** Trigger and Reconstruction

Contribution ID: 58

Type: **not specified**

## **Air shower sensitivity in ice**

*Wednesday, 22 July 2015 15:40 (10 minutes)*

**Presenter:** CAULFIELD, Ryan

**Session Classification:** ARA-sim

**Track Classification:** ARA-sim

Contribution ID: 59

Type: **not specified**

## Discussion of Pole Plans

*Thursday, 23 July 2015 12:00 (1 hour)*

**Session Classification:** Working lunch - food will be provided

**Track Classification:** Working Lunch