

ICARUS DAQ Workshop

Report of Contributions

Contribution ID: 6

Type: **not specified**

Introduction and goals of the Workshop

Wednesday, 9 November 2022 08:30 (20 minutes)

Presenters: ADUSZKIEWICZ, Antoni; PASQUALINI, Laura (INFN & University of Bologna); PASQUALINI, Laura (Bologna University and INFN)

Contribution ID: 7

Type: **not specified**

Artdaq software overview

Wednesday, 9 November 2022 08:50 (30 minutes)

Core artdaq software overview and ICARUS implementation

Presenters: FLUMERFELT, Eric (Fermilab); LUKHANIN, Gennadiy (Fermilab); RECHENMACHER, Ronald (fnal)

Contribution ID: 8

Type: **not specified**

Boardreaders - TPC

Wednesday, 9 November 2022 09:20 (20 minutes)

Presenter: KETCHUM, Wesley (Fermi National Accelerator Laboratory)

Contribution ID: 9

Type: **not specified**

Boardreaders - PMT

Wednesday, 9 November 2022 09:40 (20 minutes)

Presenters: PETRILLO, Gianluca (SLAC National Accelerator Laboratory); KETCHUM, Wesley (Fermi National Accelerator Laboratory)

Contribution ID: **10**

Type: **not specified**

Boardreaders - Side & Top CRT

Wednesday, 9 November 2022 10:10 (20 minutes)

Presenter: ADUSZKIEWICZ, Antoni

Contribution ID: **11**

Type: **not specified**

Boardreaders - Trigger

Wednesday, 9 November 2022 10:30 (20 minutes)

Presenter: ZETTLEMOYER, Jacob (Fermilab)

Contribution ID: 12

Type: **not specified**

Boardreaders - White Rabbit

Wednesday, 9 November 2022 10:50 (20 minutes)

Presenter: TORRETTA, Donatella (Fermilab)

Contribution ID: **13**

Type: **not specified**

Tutorial Session 1

Wednesday, 9 November 2022 11:10 (1 hour)

Basics: how to start artdaq, how to start run, how to restart when it crashes

How to debug: where the log files are, what do they include (empty fragment, incomplete events)

Presenters: ADUSZKIEWICZ, Antoni; PASQUALINI, Laura (INFN & University of Bologna); PASQUALINI, Laura (Bologna University and INFN)

Contribution ID: 14

Type: **not specified**

SBND DAQ system

Thursday, 10 November 2022 08:30 (30 minutes)

Overview of the DAQ components (which code is shared with ICARUS)

What is the status of SBND DAQ

Developing and using code together with ICARUS

Presenters: KALRA, Daisy (Student); KALRA, Daisy (Columbia University)

Contribution ID: 15

Type: **not specified**

Online monitoring

Thursday, 10 November 2022 10:40 (20 minutes)

How data is handled by Dispatcher to OM

Structure of the OM interface

Status, issues, plans

How to solve common issues with OM or archiver

Presenter: PUTNAM, Gray

Contribution ID: **16**

Type: **not specified**

Active development: TPC compression

Thursday, 10 November 2022 09:20 (20 minutes)

Presenter: HAUSNER, Harry

Contribution ID: 17

Type: **not specified**

Active development: bottom CRT

Thursday, 10 November 2022 09:40 (20 minutes)

Presenter: HOWELL, Ryan

Contribution ID: **18**

Type: **not specified**

File Transfer System

Thursday, 10 November 2022 10:10 (20 minutes)

Presenter: KETCHUM, Wesley (Fermi National Accelerator Laboratory)

Contribution ID: **19**

Type: **not specified**

ICARUS hardware/computing infrastructure

Thursday, 10 November 2022 10:30 (10 minutes)

Presenter: SAVAGE, Geoffrey (Fermilab)

Contribution ID: **20**

Type: **not specified**

Grafana and metrics

Thursday, 10 November 2022 09:00 (20 minutes)

How grafana works, how the data is transferred from the components to Grafana

Metrics:

Which metrics are critical to understand issues related to DAQ/artdaq

Presenter: YANDEL, Erin

Contribution ID: **21**

Type: **not specified**

Tutorial Session 2

Thursday, 10 November 2022 11:10 (50 minutes)

Making new configuration, what are the various configurations
How to setup development/production area

Presenter: LUKHANIN, Gennadiy (Fermilab)

Contribution ID: 22

Type: **not specified**

Configuration Database

Thursday, 10 November 2022 11:00 (10 minutes)

Presenter: LUKHANIN, Gennadiy (Fermilab)