

EXCALIBUR International Extreme Data Tutorials & Workshop

Paul Calleja, Shaun de Witt, Scott Klasky

Co-sponsored by Excalibur/DIRAC and ESCAPE

July 18 – 21 2023

Tuesday 18 July

USA Exascale Data Tutorial – I/O Tutorial

West 1 & 2, West Hub, JJ Thomson Ave, Cambridge CB3 0US

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|-------|---|
| 9:00 | Arrival & coffee |
| 9:30 | Exascale I/O tutorial (Scott Klasky (ORNL)) |
| 11:00 | Break |
| 11:30 | Shaun de Witt |
| 12:30 | Lunch |
| 1:00 | Hands-on ADIOS tutorial (Norbert Podhorszki (ORNL)) |
| 2:30 | Break |
| 4:00 | Shaun de Witt |
| 5:00 | End |

Wednesday 19 July

USA Exascale Data Tutorial – Visualisation Tutorial

West 1 & 2, West Hub, JJ Thomson Ave, Cambridge CB3 0US

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|-------|---|
| 9:00 | Arrival & coffee |
| 9:30 | Exascale Visualization tutorial (Dave Pugmire (ORNL)) |
| 11:00 | Break |
| 11:30 | Shaun de Witt |
| 12:30 | Lunch |

1:00 Paraview tutorial (Part 2)

2.30 **Break**

4:00 Shaun de Witt

5:00 **End**

Thursday 20 July

Workshop – Part 1

The Møller Institute, Churchill College, Storey's Way, Cambridge CB3 0DE

9:00 Arrival & coffee

9:30 Welcome from Paul Calleja

Exascale Applications Overview (Shaun de Witt, moderator)

9:45 Rob Akers – Fusion

10:15 Jeremy Yates – SKA Exascale

10:45 **Break**

11:00 Hendrik Nolte – Weather/Climate Exascale

11:30 Panel – Application Data Requirements (Akers, Yates, Nolte)

12:30 **Lunch**

Excalibur Software Technologies (Paul Calleja, moderator)

1:30 Scott Klasky – Exascale Data Technologies (a view from ORNL)

2:00 Shaun de Witt – Data Management

2:30 Sanjay Ranka – Data Reduction

3:00 **Break**

3.15 Nitesh Bhatia – Visualization

3.45 Panel – Software Sustainability (Yates, Ranka, de Witt, Klasky, Nitesh)

4.45 **End**

7:00 **Speakers' Dinner**

River Bar Steakhouse & Grill, 3 Thompsons Lane, Cambridge, CB5 8AQ

Friday 21 July

Workshop – Part 1

The Møller Institute, Churchill College, Storey's Way, Cambridge CB3 0DE

9:00 **Arrival & coffee**
9:30 Welcome from Rob Akers

Applications Overviews (Shaun de Witt, moderator)

9:45 M. Churchill – Fusion
10:15 Andreas Wicenec – SKA

10:45 **Break**

11:00 A. Klimentov – HEP
11:30 Erick Fredj – Weather
12:00 Rob Jacobs – Climate
12:30 Panel – Application Data Requirements (Wicenec, Klimentov, Churchill, Fredj)

1:15 **Lunch**

ECP Data Software Technologies (Paul Calleja, moderator)

2:00 Ana Gainaru – Workflow Management Systems at Scale
2:30 Dave Pugmire – Exascale Visualization Technologies
3:00 Norbert Podhorszki – ADIOS 2 at Scale

3:30 **Break**

3:45 Jay Lofstead – Software Sustainability
4:15 Panel – Exascale Software Technologies (Gainaru, Pugmire, Podhorszki, Lofstead)
5:00 Wrap up (Calleja, de Witt, Klasky)

5:15 **End**