

UK XFEL Townhall - Materials, Chemistry, and Biology at extreme conditions

Report of Contributions

Contribution ID: 1

Type: **not specified**

Coffee and Tea

Contribution ID: 2

Type: **not specified**

Welcome and Opening

Monday, 2 October 2023 11:00 (10 minutes)

Presenter: MCKENNA, Paul (University of Strathclyde)

Contribution ID: 3

Type: **not specified**

UK XFEL Project Overview

Monday, 2 October 2023 11:10 (50 minutes)

UK XFEL Design Team - Dave Dunning, Paul Aden - STFC

UK XFEL Science Lead - Jon Marangos - Imperial College

Presenters: Dr DUNNING, David; ADEN, Paul (STFC); Prof. JON, Paul

Contribution ID: 4

Type: **not specified**

Results from Static and Dynamic Compression Experiments at European XFEL

Monday, 2 October 2023 13:30 (30 minutes)

Presenter: MCMAHON, Malcolm (The University of Edinburgh)

Contribution ID: 5

Type: **not specified**

Putting the squeeze on molecular materials – high-pressure studies of fuels, lubricants, pharmaceuticals and explosives

Monday, 2 October 2023 14:00 (30 minutes)

Presenter: PULHAM, Colin (The University of Edinburgh)

Contribution ID: 6

Type: **not specified**

XFEL probing of extreme conditions in ultrarelativistic laser-produced plasmas – Status of HED/HIBEF at EuXFEL

Monday, 2 October 2023 14:30 (30 minutes)

Presenter: COWAN, Tom (Helmholtz-Zentrum Dresden-Rossendorf)

Contribution ID: 7

Type: **not specified**

Combining a UK XFEL with spherical compression: Laser Fusion science possibilities

Monday, 2 October 2023 15:30 (30 minutes)

Presenter: SCOTT, Robbie (CLF, STFC)

Contribution ID: 8

Type: **not specified**

Discovering and Investigating Soft Matter Phenomena with XFELs

Monday, 2 October 2023 16:00 (40 minutes)

Presenter: STAN, Claudiu (Rutgers University)

Contribution ID: 9

Type: **not specified**

Exploring quantum matter at extreme conditions - low temperatures and high magnetic fields

Tuesday, 3 October 2023 09:30 (30 minutes)

Presenter: GERBER, Simon (SwissFEL, PSI)

Contribution ID: **10**

Type: **not specified**

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Monday, 2 October 2023 14:00 (30 minutes)

Presenter: MCBRIDE, Emma (Queens university Belfast)

Contribution ID: **11**

Type: **not specified**

TBC

Presenter: WOOLSEY, Nigel (University of York)

Contribution ID: 12

Type: **not specified**

AWE's extreme environment experiments at the European XFEL and LCLS

Monday, 2 October 2023 13:00 (30 minutes)

Presenter: MCGONEGLE, David (AWE)

Contribution ID: **13**

Type: **not specified**

Panel Discussion

Tuesday, 3 October 2023 13:30 (30 minutes)

Contribution ID: 14

Type: **not specified**

The role of magnetic fields in turbulent high-energy-density plasmas.

Tuesday, 3 October 2023 10:00 (30 minutes)

Presenter: BOTT, Archie (University of Oxford)

Contribution ID: 15

Type: **not specified**

Unravelling material properties with intense x-rays

Tuesday, 3 October 2023 12:00 (30 minutes)

Presenter: VINKO, Sam (University of Oxford)

Contribution ID: **16**

Type: **not specified**

Scientific Themes Updates

Tuesday, 3 October 2023 11:00 (1 hour)

Tom Penfold, Anna Regoutz, Sven Schroeder, Sam Vinko, Jasper Van Thor and Jon Marangos will review the other main science areas for the UK XFEL Science Case

Contribution ID: 17

Type: **not specified**

Closing Remarks

Tuesday, 3 October 2023 14:00 (10 minutes)

Contribution ID: **18**

Type: **not specified**

Day one discussion and close

Monday, 2 October 2023 16:40 (20 minutes)