

**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)*