



THE ARMOURERS AND BRASIERS' CAMBRIDGE FORUM



TUESDAY, 18TH JUNE 2024

Sponsors:

**AWE • Henry Royce Institute • Institute of Materials, Minerals & Mining
Materials Processing Institute • Rolls-Royce**

1.00 **Registration: Pippard Lecture Theatre, Department of Physics, Cavendish Laboratory,
JJ Thomson Avenue, Cambridge, CB3 0HE, Cambridge**

THE GORDON SEMINARS

in the Pippard Lecture Theatre

1.30 *Welcoming Remarks*
Mr Mike Goulette CEng FREng FRAeS
(Past Master of the Armourers & Brasiers; Chair of the A&B Materials Science Committee)

Session I Chair: Prof. Serena M. Best CBE FREng

1.35 *Electrifying Bones: osteogenic tissue engineering with electrical stimulation*
Prof. Sarah Cartmell, Department of Materials, University of Manchester

2.05 *Molecular Materials for Technology: from solar to quantum*
Prof. Sandrine Heutz, Head, Department of Materials, Imperial College London

2.35 IoM3 Young Persons' Lecture Competition 2024, First Place in the UK
Emilia Russell, Department of Engineering, Durham University

2.45 *Brief Encounters!*
— a series of 3-minute talks by early-career researchers

3.15 – 4.05 *Tea and Poster Display – adjoining rooms*

Session II Chair: Prof. Christopher J. Pickard

4.05 *Climate Constructive Carbons: can we turn waste to wonder?*
Prof. Adam Boies, Department of Engineering, University of Cambridge

4.35 *Beyond Crystallinity and Throughput:
machine-learning-accelerated materials discovery for energy conversion and storage*
Prof. Karsten Reuter, Fritz Haber Institute, Berlin

5.05 – 5.20 *Short break*

THE TWENTY-FIFTH KELLY LECTURE

Chair: Prof. Jason W. A. Robinson FIMMM

5.20 *Glasses, but not as you know them! surface-mediated assembly of ultrastable and structured states*
Prof. Mark Ediger, Department of Chemistry, University of Wisconsin-Madison

6.20 **Vote of Thanks: Prof. James A. Elliott**

For more information and to register please go to: <http://www.msm.cam.ac.uk/forum/>