



# THE ARMOURERS AND BRASIERS' CAMBRIDGE FORUM



TUESDAY, 18<sup>TH</sup> JUNE 2024

Sponsors:

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

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### EARLY-CAREER TALENTS

2.35 IoM3 Young Persons' Lecture Competition 2024, First Place in the UK  
*Why strained semiconductors are like crinkle-cut crisps*  
**Emilia Russell**, Department of Engineering, Durham University

2.45 *Brief Encounters! 3-minute talks*  
— researchers from the Materials Departments at Manchester, Imperial & Cambridge

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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 Award for the best *Brief Encounters* talk — presented by **Dr Roger Bowdler** FSA, Master of the  
Armourers & Brasiers. *Followed by a short break*

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## 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** *FIMMM*

For more information visit: <http://www.msm.cam.ac.uk/forum/>