



# THE ARMOURERS AND BRASIER'S' CAMBRIDGE FORUM



TUESDAY, 20<sup>TH</sup> JUNE 2023

Sponsors:

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

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

## THE GORDON SEMINARS

in the Pippard Lecture Theatre

1.45 *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. Paul A. Midgley** *FRS*

1.50 *Precision polymer nanomaterials*  
**Prof. Rachel O'Reilly** *FRS FRSC*, Head, School of Chemistry, University of Birmingham

2.20 *SUPERMAGNETS: How space rocks are helping the search for sustainable permanent-magnet materials*  
**Prof. Richard Harrison**, Head, Department of Earth Sciences, University of Cambridge

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

3.20 – 3.50 *Tea and Poster Display – adjoining rooms*

**Session II** Chair: **Prof. Serena M. Best** *CBE FREng*

3.50 *Glass and 'Bouncy Bioglass' in tissue repair*  
**Prof. Julian Jones** *FIMMM FSGT FACerS*, Associate Head, Department of Materials, Imperial College London

4.20 *Spinning out under pressure: barocaloric materials for zero-carbon heating and cooling*  
**Dr Xavier Moya**, Dept. of Materials Science & Metallurgy, University of Cambridge; Founder and CEO of *Barocal Ltd*

Chair: **Mr Jonathan Hale**, Master of the Armourers & Brasiers' Company

4.50 *Armourers & Brasiers' Materials Science Venture Prize*

5.05 – 5.20 *Short break*

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## THE TWENTY-FOURTH KELLY LECTURE

Chair: **Prof. Ruth E. Cameron** *FInstP FIMMM*

5.20 *Materials Science: Key opportunities and challenges by 2035*  
**Prof. Victoire de Margerie**, Founder and Vice-Chairman, *World Materials Forum*

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/>