



THE ARMOURERS AND BRASIERS' CAMBRIDGE FORUM  
WEDNESDAY, 19<sup>TH</sup> JUNE 2013

Sponsors: 1851 Commission, AWE, BRE, IOM<sup>3</sup>, IOP, Johnson Matthey,  
Morgan Advanced Materials, Rolls-Royce, Tata Steel, TWI

1.30 Registration: Babbage Lecture Theatre Foyer, New Museums Site, Cambridge.

**THE GORDON SEMINARS**  
**TO BE HELD IN THE BABBAGE LECTURE THEATRE**

2.00 Welcoming remarks: Professor William Bonfield *CBE FRS FREng FMedSci*  
(Past Master A&B; Chairman of the A&B Materials Science Committee)

**Session I** Chair: Professor William Bonfield *CBE FRS FREng FMedSci*

2.05 “Computer simulations of complex self assembly”  
Professor Daan Frenkel, Department of Chemistry, University of Cambridge

2.35 “Transforming our understanding of engineering materials and their processing via synchrotron imaging”  
Professor Peter Lee, University of Manchester and Rutherford Appleton Laboratory

3.05 “Shedding light on corrosion”  
Dr Alison Davenport, University of Birmingham, UK

3.35 - 4.00 *Tea and Poster Display– Small Exam Hall*

**Session II** Chair: Professor Alan Windle, *ScD, FRS*

4.00 “Routes to more sustainable cement and concrete”  
Professor Karen Scrivener, EPFL, Lausanne, Switzerland

4.30 “Material criticalities in magnetism”  
Professor Dr Oliver Gutfleisch, Technische Universität Darmstadt, Germany

5.00 *Armourers & Brasiers' Materials Science Venture Prize* presented by **The Rt. Hon. Viscount Lifford, DL**  
(Master of the Armourers & Brasiers' Company)

5.10 - 5.30 *Tea and Poster Display– Small Exam Hall*

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**THE FIFTEENTH KELLY LECTURE**

Chair: Professor Lindsay Greer

5.30 *Lighting the Future*

**Professor Sir Colin Humphreys, CBE, FRS, FREng**

*Director of Research, Dept. of Materials Science & Metallurgy, University of Cambridge*  
*Past Master, Worshipful Company of Armourers and Brasiers'*

6.30 Vote of Thanks: Professor Anthony Kelly *CBE FRS FREng*