



## THE ARMOURERS AND BRASIER'S' CAMBRIDGE FORUM

TUESDAY 20<sup>TH</sup> JUNE 2017

Sponsors: **AWE; BRE; Institute of Materials, Minerals & Mining; Materials Processing Institute; Morgan Advanced Materials; Rolls Royce; Royal Commission for the Exhibition of 1851; Tata Steel; TWI**

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

### THE GORDON SEMINARS

in the Pippard Lecture Theatre

1.45 **Welcoming remarks: Professor William Bonfield CBE FRS FEng FMedSci**  
(Chairman of the Armourers & Brasiers' Materials Science Committee)

**Session I Chair: Professor Serena Best, FEng**

2:05 *New and Traditional Ways of Making Bubbles, Particles, Capsules and Fibres: A New Frontier in Biomedical Materials*

**Professor Mohan Edirisinghe FEng**, Bonfield Chair of Biomaterials, University College London

2.35 *Sustainable Carbon Materials for Renewable Energy*  
**Professor Magda Titirici**, Queen Mary University London

3.05 *Putting the 'Nuclear' Back into Nuclear Magnetic Resonance*  
**Dr Ian Farnan**, Department of Earth Sciences, University of Cambridge

3.35 – 4.00 *Tea and Poster Display – adjoining rooms*

**Session II Chair: Professor Sir Harry Bhadeshia FRS FEng**

4.00 *From Mobile Phones to Russian Dolls to MASERS*  
**Professor Neil Alford MBE FEng**, Imperial College London

4.30 *Application of Neutron Scattering to Materials Science and Engineering*  
**Professor Xun-Li Wang**, City University of Hong Kong

5.00 *Armourers & Brasiers' Materials Science Venture Prize* presented by the Master of the Armourers & Brasiers' Company

5.10 - 5.20 *Short break*

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### THE NINETEENTH KELLY LECTURE

**Chair: Professor Chris Pickard**

5.20 *Bulletproof Custard: Discontinuous Shear Thickening in Very Dense Suspensions*  
**Professor Mike Cates FRS**  
Lucasian Professor of Mathematics, University of Cambridge

6.20 **Vote of Thanks: Professor Dame Athene Donald DBE FRS**