



THE ARMOURERS AND BRASIER'S CAMBRIDGE FORUM

TUESDAY, 17TH JUNE 2014

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

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

THE GORDON SEMINARS
TO BE HELD IN THE PIPPARD LECTURE THEATRE

1.45 **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 Harry Bhadeshia *FRS FREng*

1.50 *Reflections on surface science*
Dr Stuart M. Clarke, Reader, BP Institute and Department of Chemistry, Cambridge University, and a BP Technology Fellow

2.20 *Chemical sensors and the MSM: The past, the present and the future*
Dr John Saffell, Technical Director at Alphasense Ltd

2.50 *Developing next-generation steels from the atomic and nanoscale*
Dr Francisca G. Caballero, Deputy Director for Science, Spanish National Research Centre for Metallurgy (CENIM-CSIC)

3.20 – 3.55 *Tea and Poster Display – adjoining rooms*

Session II Chair: Professor Sir Colin Humphreys *CBE FRS FREng*

3.55 *Materials needs in the UK's nuclear programme*
Professor W. E. Lee, Department of Materials and Centre for Nuclear Engineering, Imperial College London

4.25 *Processing of smart composite materials, towards tailored damping and matrix healing*
Professor Véronique Michaud, Laboratory of Polymer and Composite Technology, Director of the Materials Science and Engineering Section, EPFL Lausanne

Chair: Professor William Bonfield *CBE FRS FREng FMedSci*

4.55 *Armourers & Brasiers' Materials Science Venture Prize* presented by Mr Jonathan S. Haw
(Master of the Armourers & Brasiers' Company)

5.10 - 5.20 *Short break*

THE SIXTEENTH KELLY LECTURE

Chair: Professor Lindsay Greer *FIMMM:* Tony Kelly (1929–2014) and the Kelly Lecture

5.20 *Made-to-measure surfaces*
Professor Nicholas D. Spencer
Department of Materials, ETH Zurich, and President, ETH Research Commission

6.20 **Vote of Thanks:** Professor Alan Windle *FRS*