



THE ARMOURERS AND BRASIER'S' CAMBRIDGE FORUM

TUESDAY, 14TH JUNE 2016

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**

1.15 **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 FREng FMedSci FIMMM**
(Past Master of the Armourers & Brasiers; Chairman of the A&B Materials Science Committee)

Session I Chair: Professor Lindsay Greer FIMMM

1.50 *Nanostructuring the semiconductor silicon to endow it with new capabilities*
Professor Leigh Canham, Chief Scientific Officer, pSiMedica Ltd

2.20 *Nanocomposite epitaxial oxide thin films: a new way to achieve radical property enhancements in functional materials*
Professor Judith Driscoll, Department of Materials Science & Metallurgy, University of Cambridge

2.50 *Nanoporous materials for magnetism and spintronics applications*
Professor Jordi Sort, Institució Catalana de Recerca i Estudis Avançats (ICREA) and Departament de Física, Universitat Autònoma de Barcelona

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

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

3.50 *GaN/polymer, GaN/diamond and GaN/nanocomposite hybrid LEDs for high-bandwidth visible light communications*
Professor Martin Dawson, Institute of Photonics and Fraunhofer Centre for Applied Photonics, University of Strathclyde

4.20 *Function from frustration*
Professor Andrew Goodwin, Department of Chemistry, University of Oxford

Chair: Professor William Bonfield CBE FRS FREng FMedSci FIMMM

4.50 *Armourers & Brasiers' Materials Science Venture Prize* presented by: Colonel David Wynne Davies (Master of the Armourers & Brasiers' Company)

5.05 - 5.20 *Short break*

THE EIGHTEENTH KELLY LECTURE

Chair: Dr Howard Stone

5.20 *Advanced Materials - Flying High*
Professor Ric Parker CBE FREng
Latterly Director of Research and Technology for Rolls-Royce plc

6.20 **Vote of Thanks: Professor Sir Harry Bhadeshia FRS FREng FIMMM**

For more information and to register please go to: <http://www.msm.cam.ac.uk/forum/>