



THE ARMOURERS AND BRASIERS' CAMBRIDGE FORUM
TUESDAY, 14TH JUNE 2011

Sponsors: 1851 Commission, AWE, IOM³, Ranier Technology, Rolls-Royce, Tata Steel, TWI

1.30 **Registration on the Babbage Podium, New Museums Site, Cambridge.**

THE GORDON SEMINARS

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 *Structure, Dynamics, and Applications of Foams*
Dr Simon Cox, Institute of Mathematics and Physics, Aberystwyth University

2.35 *Chronic, Debilitating Back Pain – a Materials Science Solution to a Mechanical Problem*
Dr Geoffrey Andrews, Ranier Technology Ltd.

3.05 *Novacem Carbon Negative Cement for the Construction Industry*
Dr Nikolaos Vlasopoulos, Novacem Ltd

3.35 - 4.00 *Tea - Babbage Podium (Poster Display)*

Session II Chair: Professor Sir Colin Humphreys CBE FREng

4.00 *Materials, Sustainability and London 2012*
Dr Peter Bonfield, Chief Executive, BRE and Leader, Sustainability and Construction Products, Olympic Delivery Authority

4.30 *Charge Generation from Excitons in Molecular Semiconductors: the Role of Spin*
Professor Sir Richard Friend FRS, FREng, Cavendish Professor of Physics, University of Cambridge

5.00 *Armourers & Brasiers' Materials Science Venture Prize* presented by **Professor Sir Colin Humphreys**
(Master of the Armourers & Brasiers' Company)

5.10 - 5.30 *Tea - Babbage Podium (Poster Display)*

THE THIRTEENTH KELLY LECTURE

5.30 **Chair: Dr Neil Mathur**
Spintronics: Electrons, Spins, Computers and Telephones
Professor Albert Fert, Nobel laureate for Physics 2007, Unité Mixte de Physique CNRS-Thales, Palaiseau and Université Paris-Sud, Orsay, France.

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