



THE ARMOURERS AND BRASIER'S CAMBRIDGE FORUM
TUESDAY, 9TH JUNE 2009

Sponsors: 1851 Commission, AWE, Corus (part of the Tata Steel Group), IoM³, Johnson Matthey, Morgan Technical Ceramics, Ranier Technology, Rolls-Royce, Royal Academy of Engineering, Royal Society of Chemistry

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

THE GORDON SEMINARS

2.00 Welcoming remarks: Rear Admiral Patrick Middleton CB
(Past Master A&B; Chairman of the A&B Materials Science Committee)

Session I Chair: Professor Colin Humphreys CBE FREng

2.05 *Following the lithium ions in real time in rechargeable batteries: new NMR and diffraction approaches*
Professor Clare Grey, State University of New York at Stony Brook

2.35 *New methods for generating organic nanoparticle dispersions in water without attrition processes*
Professor Steve Rannard, University of Liverpool

3.05 *Nanoscale characterisation of the Zr/ZrO₂ interface – helping to improve the efficiency of nuclear cladding alloys*
Professor Chris Grovenor, University of Oxford

3.35 - 4.00 Tea - Babbage Podium (Poster Display)

Session II Chair: Professor Harry Bhadeshia FRS FREng

4.00 *Beyond invention*
Dr Tridibesh Mukherjee FREng, Tata Steel, Mumbai

4.30 *Sustainable energy - without the hot air*
Professor David MacKay, Cavendish Laboratory, Cambridge

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

5.10 - 5.30 Tea - Babbage Podium (Poster Display)

THE ELEVENTH KELLY LECTURE

5.30 Chair: Professor Anthony Cheetham FRS

Doing nanoscience research in emerging India
Professor C N R Rao FRS Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore

6.30 Vote of Thanks: Professor Lindsay Greer