



**THE ARMOURERS AND BRASIER'S CAMBRIDGE FORUM
TUESDAY, 15TH JUNE 2010**

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, TWI

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 Bill Bonfield CBE FRS FREng FMedSci

2.05 *How insects walk on the ceiling: structure and function of natural adhesives*
Dr Walter Federle, Department of Zoology, University of Cambridge

2.35 *Biomaterials - columns, bricks, trees and bones*
Professor Maggie Cusack, University of Glasgow

3.05 *Opportunities created by a transition to a low carbon economy*
Dr James Wilde, Carbon Trust

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

Session II Chair: Professor Harry Bhadeshia FRS FREng

4.00 *"Black Cabs Go Green" London taxi programmes (hybrid fuel cell taxis for London)*
Dr Henri Winand, Intelligent Energy

4.30 *Semi-Solid Processing of Metallic Alloys: The Challenges*
Prof Helen Atkinson FREng, University of Leicester

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

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

THE TWELFTH KELLY LECTURE

5.30 **Chair: Professor Lindsay Greer**
Nano-twinning materials
Professor K. Lu, Chinese Academy of Sciences, Shenyang, China

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