

Institute news

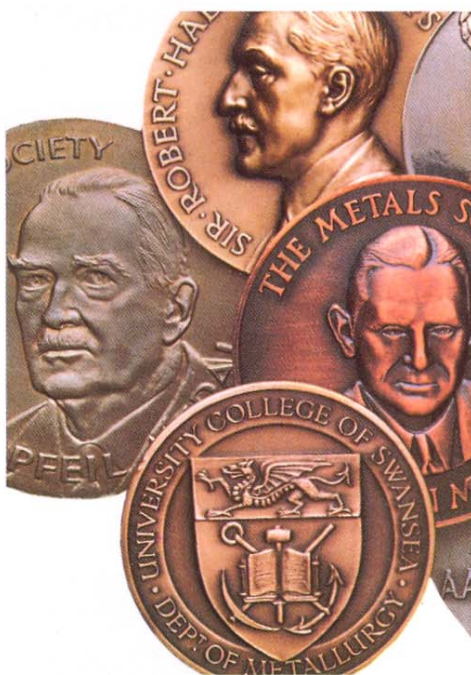


This month's section includes the premier award winners of IOM³, a look at the Royal Wedding, news of materials science books going digital, and a review of a conference chaired by the IOM³ President.

Institute's premier award winners

The Institute has announced the 2011 winners of its Medals and Prizes. The premier award winners are listed below.

- Bessemer Gold Medal – **Ian Christmas MIMMM**, Director General of the Worldsteel Association. He has been instrumental in promoting the economic importance, value and relevance of steel to the modern world. He has sought to unite the steel industry so that it can better react to important issues, for example, by attracting leading Chinese steel companies to join the Association.
- Sir Andrew Bryan – **Norman Riley IEng Hon FIMMM**, Senior Director of Davis Derby Ltd. Riley joined the Institute under its former guise as the Association of Mining Electrical and Mining Mechanical Engineers as a student member in the 1950s. Riley was on the IOM³ Council as the northeast representative and served on the Local Affairs Board.
- Chapman Medal – **Professor Serena Best CEng FIMMM**, University of Cambridge. She is a world-leading researcher in using calcium phosphates as bioceramics. Best is interested in transferring research into applications, such as improving bone repair in orthopaedic applications. She represents the UK in several European projects, such as NEWBONE, which is researching biocomposite prosthesis.
- Futers Gold Medal – **Professor John Monhemius CEng FIMMM**. Monhemius has over 40 years' experience in academic and industrial R&D in hydrometallurgy and environmental control in mining processes. Monhemius is world renowned for his teaching at the former Royal School of Mines, where he rose to Dean. He is Chair of the Institute's Mineral Processing & Extractive Metallurgy division, and consequently chairs the International Mining and Minerals Association.
- Gold Medal – **Professor Allan Matthews CEng FIMMM**, The University of Sheffield. During his 35-year career in surface engineering, he has been instrumental in transferring laboratory-based technologies to industry. Matthews established the UK Research Centre in Surface Engineering, which has developed coatings and surface treatments that are widely used in industry.
- Griffith Medal and Prize – **Professor David Hayhurst FEng FIMMM** from the School of Mechanical, Aerospace and Civil Engineering at The University of Manchester. He is renowned for his understanding of the mechanics of materials, and for pioneering techniques that led to the study of computational continuum damage mechanics being recognised in its own right.



- The Colin Humphreys' Education Awards – **Professor Paul O'Brien CEng FIMMM**, The University of Manchester. He presented the chemistry of copper to over 1,500 children in the UK and Singapore from 1984-1998. Following this work, he devised a nano-materials outreach lecture, 'How Small Can You Get', which led to an invitation to become the British Association Chemistry President in 2003.
 - Medal for Excellence – **Dr John Ashton FIMMM**, Chief Geologist at Tara Mines. As part of the in-house geological team at Tara, he organised researchers on topics such as age dating and isotopic studies. Publishing this knowledge has advanced the understanding of carbonate-hosted base metal deposits. Ashton used this geological awareness to help improve grade control and resource estimation protocols.
 - Platinum Medal – **Professor Tony Cheetham FRS FIMMM**, the Goldsmith's Professor of Materials Science at Cambridge University. His interests lie in the synthesis and characterisation of novel inorganic and hybrid materials and their applications. Major breakthroughs include discovering new catalysts based on zeolitic nickel phosphates and the design of phosphors for solid-state lighting.
 - Prince Philip Award – **Biocompatibles UK Ltd**. The company has designed and manufactured DC Bead – polymer hydrogel microspheres that have physico-mechanical properties. Using microcatheters, they offer localised delivery of chemotherapy to tumours. The beads are loaded with the appropriate dose of the drug by immersion, which can be done easily in the hospital pharmacy and avoids the risk of exposure to the cytotoxic agent during handling.
 - Silver Medal – **Dr Finn Giuliani**, a Lecturer in Structural Ceramics at Imperial College London. His research focuses on high temperature small-scale deformation in brittle material. The work is of interest to industry in terms of ceramics coatings used in the metal cutting industry. He has developed novel transmission electron microscopy and sample preparation methods to allow properties to be measured near their operating temperatures (up to 800°C).
- Recipients of The International Award (formerly the Overseas Award) and Materials World Award are yet to be confirmed. Details of all other award winners can be found at www.iom3.org/award-winners-2011.

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