



FEMS Salutes its Prize-Winners for 2005!

European Materials Medallist – Jeff de Hosson



Jeff De Hosson

winner of the European Materials Medal for 2005 is Professor Jeff Th. M. De Hosson of the Department of Applied Physics, University of Groningen, the Netherlands (born 27th May 1950).

His research focuses on electron microscopy, dislocation dynamics, and interface science related to surface modification. He has published more than

600 scientific publications including 20 review papers and chapters in books. He is Fellow for life of the “The Royal Holland Society of Sciences and Humanities” and of the Physics Division of the “Royal Netherlands Academy of Arts and Sciences”. In 2002 he was elected Fellow of the American Society for Metals and the following year he received the Acta Materialia Inc award.

His scientific responsibilities include numerous editorships, amongst which he is principal editor (Europe) of the J. Nanoscience and Nanotechnology and associate editor Acta Materialia/Scripta Materialia. In around 1990 he served as a member of the FEMS Executive Committee and was on the Organising Committee for EUROMAT. Jeff De Hosson was nominated for

this top award by the Dutch Member Society of FEMS, BvM. He will be presented with his gold medal during the Opening Ceremony of EUROMAT 2005 in Prague on 4th September.



European Materials Medal

We are proud to announce that the

Materials Science and Technology Prize-Winner – Britta Nestler



Britta Nestler

entist by DGM, one of the two FEMS Member Societies in Germany, this year's winner of the Materials Science and Technology Prize is Prof. Dr. rer. nat. Britta Nestler.

She works at the Faculty of Computer Science at Karlsruhe University of Applied Science. She studied physics and mathematics at RWTH

Aachen in Germany and at the University of York in the UK.

From an early stage she showed great interest in the emerging field of computational materials science, and, in particular, the modelling of solidification phenomena. Her main contribution has been in the field of phase field modelling, where she

has introduced a consistent approach for multi-phase, multi-component systems. Her computer simulations are beautiful and give tremendous insight into the world of microstructure evolution, particularly during multi-phase solidification in eutectic, peritectic and monotectic alloy systems. The kinetic and topological

transients occurring during microstructure evolution remain among the central issues in materials science and Professor Nestler is a leading figure in this field. Her prize, consisting of a full set of the 18-volume WILEY-VCH book series “Materials Science and Technology” will be presented during EUROMAT 2005 in Prague.

FEMS Lecturer Award for Excellence in MSE – Søren Fæster Nielsen



Søren Fæster Nielsen

Dr. Søren Fæster Nielsen is a scientist with the Materials Research Department at Risø National Laboratory, Denmark, and was nominated as the FEMS Lecturer for 2005 by the Danish Metallurgical Society (DMS).

He studied physics at the H.C. Ørsted Laboratory at

Copenhagen University, receiving his Ph.D. in 2000 for synchrotron X-ray radiation studies of deformation in metals. As a post-doctoral researcher he participated in developing the three dimensional X-ray diffraction microscope placed at the material science beamline at ESRF in France. He

currently holds a Research Fellowship for two years funded by the Danish Technical Research Council.

In this project he studies 3D strain distributions in composite material by applying synchrotron X-ray tomography on samples with embedded marker particles.

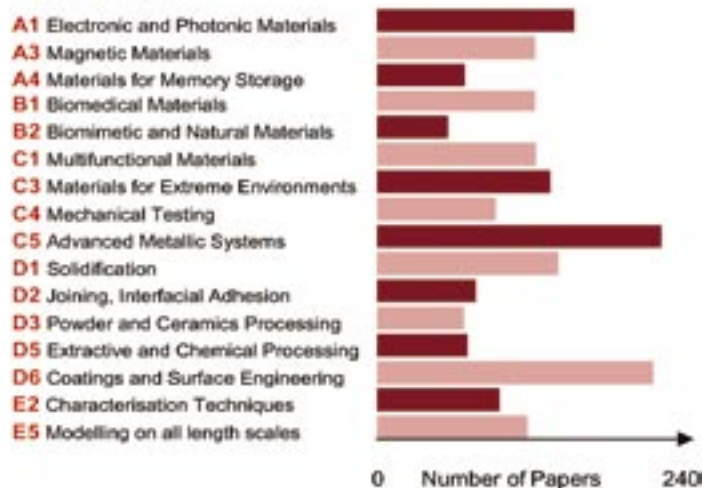
He has published 30 articles in international journals and conferences. His prize consists of a bursary of up to 1500 Euro to cover the costs of presenting his lecture in three different countries, beginning in Prague during EUROMAT 2005, and 1500 Euro in cash on completing the series.

Latest Statistics:

FEMS-EUROMAT 2005 Beckons

Euromat 2005 will take place at Prague Technical University on 5-8 September 2005. This is an event not to be missed by anyone with serious interests in materials science and engineering. The main topic areas are: Functional Materials; Biomaterials; Structural Materials; Materials Processing; and Materials Characterisation. The division of almost 2000 presentations between individual topics is shown below. For details, and to register, visit: www.euromat-2005.fems.org

Papers by Topic



News from the FEMS Executive Committee:

FEMS Presidents' Day

The latest initiative of the FEMS Executive Committee is "FEMS Presidents' Day".

The first of these occasions will take place in conjunction with EUROMAT 2005 in Prague on Wednesday 7th September, when the Presidents of each FEMS Member Society will be invited to join the FEMS Executive Committee so that the two groups can get to know each other better and have the opportunity for a full exchange of views on recent activity and progress within FEMS.

An important objective of FEMS is to represent the member societies in the newly-formed European Materials Forum (EMF), which has been set up to provide a single voice for the materials field, which is highly diversified. To do so effectively, it is essential that FEMS sees eye-to-eye with its members on all major issues such as research priorities and funding instruments for the 7th Framework Programme. With this in mind, the day will provide plenty of opportunity for an open discussion of the challenges and opportunities facing materials societies.

For all the latest information visit: www.fems.org

Marie Curie Summer School – Knowledge Based Materials

This year's Summer School, to be held at Hurtgenwald, Germany on 8-17 August 2005, will be run by Prof Günter Gottstein of RWTH-Aachen. The topic is multidisciplinary aspects of materials science associated with single phase materials. For further details: <http://materialsknowledge.org>

Rickinson and Zwaag: Future Visions for Materials Societies

Bernie Rickinson gave a hard-hitting personal view of how the future lies for European Materials Societies during a recent meeting of the European Materials Forum (EMF) in Noordwijk, The Netherlands. This view was complemented by that of Sybrand van der Zwaag of the University of Delft.

Bernie is the Chief Executive of the Institute of Materials, Minerals and Mining, UK, the largest of the FEMS Member Societies. Its origins stem from 1865 with the Iron and

Steel Institute. Successive mergers with other institutes concerned with mining, metallurgy, metals, plastics, ceramics, composites, and rubbers, etc., have culminated in a membership of over 20,000, 70% of whom are from industry. It covers all aspects of the materials cycle and he urged materials societies to strive for the critical mass needed to be listened to by gov-



Dr. B. A. Rickinson

ernments and to avoid unnecessary layers of management. His advice to other societies is "coalesce or die".

Sybrand van der Zwaag, who is President of the FEMS Member Society for the Netherlands, Bond voor Materialenkennis, and is a member of the FEMS Executive Committee, agreed. His society has fewer than 1000 members. Fifty or more years ago, the materials field was held in high esteem and each company had its own materials specialist. Now there are 7 million different materials (one for

almost every person in the Netherlands). Manufacturing output is falling, companies are growing larger and suppliers are providing information as well as materials. As a result, societies are diminishing in size and importance. To survive, he believes that materials societies must build synergy and expand into new fields, e.g. production technology and structural design.



Prof. S. van der Zwaag

FEMS news

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FEMS news

is available at the FEMS website (www.FEMS.org). It can be downloaded as a PDF file in screen resolution or as a ready-to-print PDF file. Thus FEMS news can be inserted in national materials science magazines.

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