



Winner of the European Materials Medal for 2009:

Professor Dr. Ludwig Schultz

The winner of the FEMS European Materials Medal this year is Professor Ludwig Schultz, Director of the Institute of Metallic Materials at the Leibniz-Institute of Solid State and Materials Research (IFW) in Dresden, Germany.

Established in 1993, this gold medal is awarded every other year in recognition of truly outstanding contributions to the field of Materials Science and Engineering.

Ludwig Schultz was born in Meissen, Germany, on 18 May 1947. At the age of 19 he went to the University of Göttingen to study Physics and in 1976 he gained a PhD for a thesis entitled "Flux Pinning in

Superconductors by Regularly or Statistically Distributed Precipitates".

His career began in 1973 as a Research Associate in the Institute of Physics in Göttingen where he remained until the end of 1979 apart from a year spent as a Postdoc at the IBM Research Centre in Yorktown Heights, New York during 1978.

In January 1980 he was appointed as a Staff Scientist at Siemens Research Laboratories in Erlangen, a post that he held for nearly ten years before becoming Head of the Department for High Temperature Superconductors and Magnetic Materials in the same establishment. He held that position until May 1993,

and during that period became an Honorary Lecturer in the Physics Department at Augsburg University.

In June 1993 he became Full Professor of Metallic Materials and Metal Physics at the Technical University of Dresden and Director of the Institute of Metallic Materials at the Leibniz-Institute. Since April 2008 he has also been the Scientific Director of IFW Dresden.

He has a wide range of interests and he has published an astonishing total of over 700 papers in refereed journals on topics which include: Superconducting materials and levitation systems; Magnetic shape memory alloys and thin films; Amorphous

metals and nanocrystalline materials.

The European Materials Medal will be presented to Prof. Schultz during FEMS EUROMAT 2009 (see below), at which he will present a Plenary Lecture entitled "Riding on Magnetic Fields – The Miraculous World of Superconductors". This will discuss various types of superconducting magnetically levitated trains, including the approach adopted by the team at IFW Dresden. This is a passive superconducting magnetically levitated system which uses bulk superconductors cooled only to the temperature of liquid nitrogen (-196 °C). At low temperatures superconductors not only transmit



Prof. Ludwig Schultz

the electric current without any resistance, but are also able to freeze-in a magnetic field of any configuration. In this way they act as permanent magnets but with a magnetic remanence which for massive YBaCuO material is far larger than that of ferromagnetic permanent magnets. This will be demonstrated for different types of superconducting magnetically levitated trains.

Preparations are forging ahead for:

FEMS EUROMAT 2009, 7-10 SEPTEMBER

FEMS EUROMAT conferences have taken place every other year since 1989.

This year's conference, the eleventh in the series, will be held at the Scottish Exhibition and

Conference Centre (the SECC), which is the UK's largest integrated meeting venue, with a purpose-

built auditorium seating 3,000 comfortably. Up to 18 parallel sessions will be accommodated in the

extensive facilities and an exhibition and poster sessions will also be held. (PTO).



The Scottish Exhibition and Conference Centre (SECC) in Glasgow – venue for FEMS EUROMAT 2009

FEMS EUROMAT 2009 (Continued)

The SECC is located on a 64 acre site on the banks of the River Clyde, and has comprehensive catering facilities as well as 3 on-site hotels.

Trains run from the SECC to the city centre and take just 3 minutes. It is 15 minutes from Glasgow International Airport



Sybrand van der Zwaag

and has its own bus terminal and train hall.

The Congress Chairman is Sybrand van der Zwaag of Delft Aerospace.

He is currently Vice-President of FEMS and has been a member of the FEMS Executive Committee since 2004. His Co-Chairs include Elisabeth Aeby-Gautier of Ecole des Mines de Paris, Aldo R. Boccacini of Imperial College, London, Paloma Fernández of Universidad Complutense, Madrid, and Pedro D. Portella of the Federal Institute for Materials Research and Testing, Berlin, who also belongs to the FEMS Executive Committee. In spite of the

“Credit Crunch”, FEMS EUROMAT 2009 promises to be a very successful event. The programme includes six major topic areas:

- Functional Materials;
- Structural Materials;
- Processing;
- Characterisation and Modelling;
- Applications; and
- Education

More than sixteen hundred abstracts have been received from 66 different countries. There will be in excess of 1,050 oral presentations and over 550 posters.

Plenary lectures will be held in the Clyde Auditorium, known affectionately

as “The Armadillo”, which was designed by Sir Norman Foster and completed in 1997. The seven plenary lectures will be given by: Ludwig Schultz of Leibniz-Institute IFW Dresden; José Serafin Moya of Instituto de Ciencia de materiales de Madrid; Peter Goodhew of the University of Liverpool; Peter Schwab of voestalpine Stahl, Linz; Albert Polman of the Dutch Foundation for Fundamental Research on Matter, Amsterdam; Yves Bréchet of Institut National Polytechnique de Grenoble; and Peter Fratzl of Max Planck Institute of Colloids and Interfaces, Potsdam.

Registration fees for

FEMS EUROMAT 2009 range from 300 Euros for students to 760 Euros to those employed in industry. However, discounts of up to 25 % are available to members of FEMS Member Societies. It should be noted that a surcharge of 50 Euros will apply after 12 July 2009. A set of short introductory courses will be run in conjunction with the conference on Sunday 6 September 2009 for which there will be an additional registration fee of 250 Euros. Full details of these, and all other features of the conference are available at the following address: www.euromat2009.fems.eu.

NEW CALL IN THE MATERA ERA-NET : DEADLINE 15th May

MATERA is one of the ERA-NET projects launched by the European Commission.

It promotes European co-operation between national and regional programmes on material science and engineering. In the

MATERA+ call a network of 21 funding agencies from 15 countries is active. The Call is open to industry, universities, institutes and research centers. The goal is to launch transnational, interdisciplinary, innovative projects and to

narrow the gap between basic materials research and industrial applications in the following areas:

- Multi-functional Materials
- Engineering Structural Materials
- Bio-based and Bio-inspired Materials

The deadline for submitting a pre-proposal is 15 May 2009.

Further information can be found on the website www.matera.fi, where you also can find the participating funding agencies. On the web-site a tool to search for



partners for your project idea or find ideas to join in a partnership is available. Please get in touch with your regional funding Agency without delay for specific questions about the funding possibilities.

DATES FOR YOUR DIARY

FEMS will be holding **EUROMAT 2009** in Glasgow, Scotland on 7-10 September 2009. For further details visit the Conference Website: www.euromat2009.fems.eu.

MRS-Serbia will be holding **YUCOMAT 2009** in Herceg Novi, Montenegro on 31 August - 4 September 2009. For further information visit the Serbia-MRS Website: www.yu-mrs.org.yu.

Back Issues of FEMS News and much more information about the Federation, as well as forthcoming events and job opportunities, can be downloaded from the FEMS website at: www.FEMS.org.

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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