Saxon-British Nanotechnology Forum

Programme

Overall Moderation by Dr Andreas Leson

10:30 - 12:30 Presentations Keynote Speakers

10:30 Introductory Statement
PROF GEORG MILBRADT: Prime Minister of Saxony

10:45 Introductory Statement
SIR DAVID KING: Chief Scientific Adviser to HM Government

11:00 Nanotechnology as a Driving Force in Innovation
PROF HANS-JÖRG BULLINGER: President, Fraunhofer Gesellschaft, Munich

11:20 Nanotechnology in Saxony: Nanoelectronics and Bionanotechnology
DR HANS DEPPE: Vice President and General Manager, AMD Dresden
PROF KAI SIMONS: Executive Director, Max Planck Institute of Molecular Cell Biology and Genetics, Dresden

11:50 Nanotechnology in Great Britain
PROF HUGH CLARE: Director UK Micro- and Nanotechnology Network (Government), Liverpool

12:10 Fraunhofer Center Nanoelectronic Technologies - linking Research to Nanoelectronic Manufacture
DR PETER KÜCHER: Director, Fraunhofer Center Nanoelectronic Technology, Dresden

12:30 Buffet Lunch

14:00 - 16:15 Parallel-Workshops
(Presentations and Discussions)

I Nanoelectronics and Photonics
Chair: Prof Will J. Stewart

II Nanomaterials, -surfaces and -layers
Chair: Dr Andreas Leson

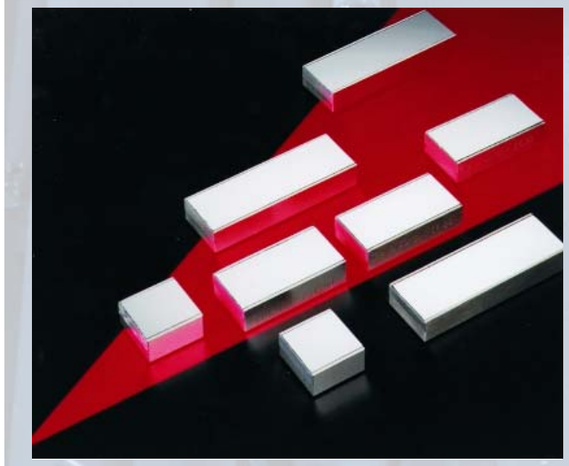
III Bionanotechnology
Chair: Dr Julie Deacon

16:15 Round-up Session (End of Formal Session)

16:30 Networking Session (Informal) - Business-to-Business Meetings

18:15 END. Transfer to Embassy

19:00 Reception (Hosted by Prime Minister Milbradt and German Ambassador Matussek)



For further Information and Online Registration at:
www.nanotechnology.de/ntforum

Workshops
(Presentations and Discussions)

14:00 - 16:15 Workshop I
"Nanoelectronics and Photonics"
(Chair: Prof Will J. Stewart)

14:00 Interconnect Systems: Challenges for Nanoelectronics
PROF THOMAS GESSNER: Chemnitz University of Technology, Center for Microtechnologies ZfM and Fraunhofer-Institute for Reliability and Microintegration IZM Berlin

14:20 Trends in the Development of Nonvolatile Memory Devices
DIPL ING TORSTEN MÜLLER: Infineon Technologies AG, Dresden

14:40 Nano-Assembly and Function in Nano-Photonics
PROF JEREMY BAUMBERG: University of Southampton, Department of Physics and Astronomy

15:00 Coffee break

15:15 OLEDs - Displays and Lighting Technologies of the Future
PROF KARL LEO: Novaled GmbH and Technical University of Dresden

15:35 Solid-state Nanodevices for Quantum Information Processing
DR DAVID WILLIAMS, Hitachi Cambridge Laboratory, Cambridge

15:55 New Methods of Cu-Metallisation in Microelectronics
DIPL PHYS WOLFGANG HENTSCH: FHR-Anlagenbau GmbH, Ottendorf-Okrilla

14:00 - 16:15 Workshop II
"Nanomaterials, -surfaces and -layers"
(Chair: Dr Andreas Leson)

14:00 Large Area Coatings by Magnetron Sputtering
DR JOHANNES STRÜMPFEL: VON ARDENNE, Dresden

14:20 Advanced Applications for Bulk Nanomaterials
DR PAUL REIP: QinetiQ Nanomaterials Limited, Farnborough, Hampshire

14:40 Potential Applications for Carbon Nanotubes
PROF BERND BÜCHNER: Leibniz Institute for Solid State and Materials Research Dresden

15:00 Coffee break

15:15 Commercialising Carbon Nanotubes Production
HARRY SWAN: Thomas Swan & Co Ltd, Consett, County Durham

15:35 Superhard Amorphous Carbon Coatings
DR ANDREAS LESON: Fraunhofer-Institute for Material and Beam Technology IWS Dresden

15:55 Enabling Commercial Applications for Quantum Dots
DR NIGEL PICKETT: Nanoco Technologies Ltd, Manchester

14:00 - 16:15 Workshop III
"Bionanotechnology"
(Chair: Dr Julie Deacon)

14:00 Nanostructures on Microarrays: Real Time Monitoring of Living Cells and Tissues
PROF ANDREA ROBITZKI: University of Leipzig, Biotechnological Biomedical Centre

14:20 Atomic Force Microscopy for Cell Biology
PROF MICHAEL HORTON: University College London, London Centre for Nanotechnology and Department of Medicine

14:40 Nanotechnological Applications of Biomolecular Motor Systems
DR STEFAN DIETZ: Max Planck Institute of Molecular Cell Biology and Genetics, Dresden

15:00 Coffee break

15:15 Membrane Proteins in Bionanotechnology
PROF JOHN RYAN: University of Oxford

15:35 Nano-Tweezer: Using Atomic Force Microscope for Single Molecule Analysis
DR JENS STRUCKMEIER: nAmbition GmbH, Dresden

15:55 Applications of Nanotechnology in Bioanalysis
PROF TONY CASS: Imperial College London, Department of Biological Sciences

Freistaat Sachsen

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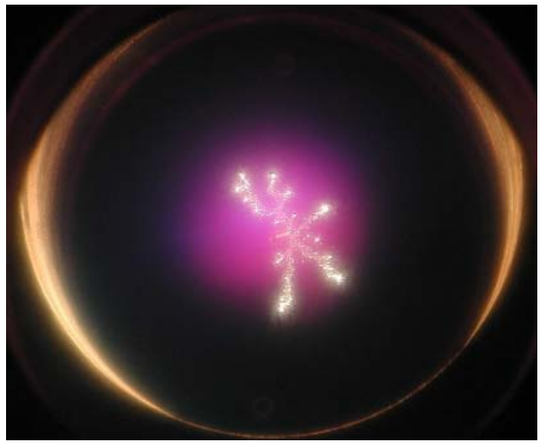
3rd October 2005
DTI Conference Centre
Department of Trade & Industry, London



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CC "Ultrathin functional films"

IWS

Fraunhofer Institut Werkstoff- und Strahltechnik