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The Royal Academy of Engineering

As Britain's national academy for engineering, we bring together the country's most eminent engineers from all disciplines to promote excellence in the science, art and practice of engineering. Our strategic priorities are to enhance the UK's engineering capabilities, to celebrate excellence and inspire the next generation, and to lead debate by guiding informed thinking and influencing public policy.

The Academy's work programmes are driven by three strategic priorities, each of which provides a key contribution to a strong and vibrant engineering sector and to the health and wealth of society.

Enhancing national capabilities

As a priority, we encourage, support and facilitate links between academia and industry. Through targeted national and international programmes, we enhance – and reflect abroad – the UK's performance in the application of science, technology transfer, and the promotion and exploitation of innovation. We support high quality engineering research, encourage an interdisciplinary ethos, facilitate international exchange and provide a means of determining and disseminating best practice. In particular, our activities focus on complex and multidisciplinary areas of rapid development.

Recognising excellence and inspiring the next generation

Excellence breeds excellence. We celebrate engineering excellence and use it to inspire, support and challenge tomorrow's engineering leaders. We focus our initiatives to develop excellence and, through creative and collaborative activity, we demonstrate to the young, and those who influence them, the relevance of engineering to society.

Leading debate

Using the leadership and expertise of our Fellowship, we guide informed thinking, influence public policy making, provide a forum for the mutual exchange of ideas, and pursue effective engagement with society on matters within our competence. The Academy advocates progressive, forward-looking solutions based on impartial advice and quality foundations, and works to enhance appreciation of the positive role of engineering and its contribution to the economic strength of the nation.



The Royal Academy
of Engineering

Engineering Research Forum 2009

the meeting of Academy-funded research

Wednesday 30 September 2009

Chairman
Professor John Perkins CBE FREng
Vice-President, The Royal Academy of Engineering

The Royal College of Physicians
11 St Andrews Place, Regent's Park, London NW1

10.15am until 3.30pm
Registration from 9.30am



The Royal Academy of Engineering promotes excellence in the science, art and practice of engineering.

Registered charity number 293074

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Engineering Research Forum 2009

30 September 2009

The Royal Academy of Engineering, in promoting excellence in engineering, has sponsored leading edge engineering research in UK universities since 1986. At present we are funding 36 Research Chairs and Senior Research Fellows. These are co-sponsored by industry for a period of five years, over the course of which post-holders are expected to develop and lead a prestigious research group and gain international standing.

Our Research Fellowship Scheme, jointly run with EPSRC, currently funds 55 Fellowships, each for five years. The Fellowships aim to retain the best young engineers in UK research, and provide a stepping stone to a successful research career in academia or industry.

The Academy also runs a scheme funded by The Leverhulme Trust which provides funding for seven Senior Research Fellows every year. Fellows are relieved from their administrative and teaching duties for up to one year, allowing them to concentrate on full-time research.

We continue to support UK-based engineers engaged in research to travel to centres of excellence overseas for up to a year under our Global Research Awards scheme, so aiding the development of international research networks and encouraging the uptake of globally competitive technology in the UK.

All of the above schemes will be represented at the Forum. In addition, beneficiaries of other Royal Academy of Engineering national and international schemes will be present to share in the occasion.

We are committed to strengthening links between industry and universities and much of the research under way is co-funded by industry, and Professor Ric Parker FEng will be speaking on such a collaboration.

This meeting will be a superb opportunity for individuals undertaking leading edge engineering research, their industry sponsors, as well as a host of interested parties to meet and hear about the wide range of work that is currently under way. Researchers will be exhibiting their work and the speakers shown are representative of our various research schemes.

If you wish to find out more about the Academy's research schemes, please contact the Research Programmes team, Email: research@raeng.org.uk Telephone: 020 7766 0600 www.raeng.org.uk

The meeting will run from 10.15am to 3.30pm with coffee and registration from 9.30am. Lunch will be provided and the facilities will be open until 5.00pm should delegates wish to stay on to chat. We are limited to 140 places which will be allocated on a first come first reserved basis.

There will be no charge for attendance.

Programme

- 10.15am **Chairman's Introduction**
Professor John Perkins CBE FEng
Vice-President, The Royal Academy of Engineering
Chairman, The Academy's Research and Secondments Committee
- 10.20am **Exploiting Nature to Solve Industrial Problems**
Professor Anne Neville FRSE
University of Leeds
RAEng Research Chair in Emerging Technologies
- 10.40am **Automated Aircraft Design – Science or Magic?**
Professor Mark Price
Queen's University Belfast
Global Research Award to USA
- 11.10am **Tea/coffee**
- 11.40am **Nuclear Systems - Integrating Design and Uncertainty**
Dr Matthew Eaton
Imperial College London
RAEng/EPSC Research Fellow
- 12.00pm **Gaze-Controlled Gaming for People with Motor Disabilities**
Mr Howell Istance
De Montfort University
Global Research Award to Finland
- 12.20pm **Robot Scientists: Automating Scientific Discovery**
Dr Amanda Clare
Aberystwyth University
RAEng/EPSC Research Fellow
- 12.50pm **Lunch**
- 2.15pm **Rolls-Royce - Managing Collaborative Research for Maximum Effect**
Professor Ric Parker FEng
Rolls-Royce Group
Director of Research & Technology
- 2.35pm **Decision-Making in an Uncertain World**
Dr Patrick McSharry
University of Oxford
RAEng/EPSC Research Fellow
- 2.55pm **Refurbishing Britain's Buildings for a Low Carbon Future**
Professor Dennis Loveday
Loughborough University
E.On/Royal Academy of Engineering Research Chair

Engineering Research Forum 2009

30 September 2009

I wish to reserve place(s) for the Annual Meeting on Wednesday 30 September 2009

Title: _____

First Name: _____

Surname: _____ Honours: _____

Position: _____

Organisation: _____

Email: _____

Guest 1

Title: _____ First Name: _____

Surname: _____ Honours: _____

Position: _____

Organisation: _____

Guest 2

Title: _____ First Name: _____

Surname: _____ Honours: _____

Position: _____

Organisation: _____

Please return this form by **31 August 2009** to:

Janet Weekes, The Royal Academy of Engineering,
3 Carlton House Terrace, London SW1Y 5DG or Email: janet.weekes@raeng.org.uk

NB: If additional space is required to list names, please contact us.