



The Royal Academy
of Engineering

wellcome trust

From Engineering Research to Practical Healthcare

3 Carlton House Terrace
London
SW1Y 5DG

29 October 2007
1.45pm for 2.15pm



From Engineering Research to Practical Healthcare

The Royal Academy of Engineering has long recognised the potential for wealth creation and improvements to healthcare arising from advances gained through biomedical engineering research. These advances are being made at the interface of several technologies and demand interdisciplinary working beyond the fields of engineering, embracing the life and natural sciences. Even within the engineering disciplines the activities range from joint replacement to informatics, from biomaterials to imaging - a microcosm of the engineering world itself.

The conversion of engineering research to clinical application and its commercialisation presents significant challenges and it is in this regard that the Academy is particularly pleased to acknowledge the Technology Transfer activity of the Wellcome Trust. Under this banner the Trust is the leading funder of translation research in the UK, bridging the gap between fundamental research and commercial application by funding applied research or development projects to a stage where they are attractive to a follow-on funder. The spectrum of technologies funded includes diagnostics, regenerative medicine, enabling technologies, therapeutics, medical devices and vaccines.

This event will provide an opportunity to hear from those who have negotiated successfully this tortuous path and also, of the funding available through the Wellcome Trust. It will be chaired by Dr Sue Ion OBE FREng, Vice-President of The Royal Academy of Engineering and the keynote address will be given by Professor The Lord Darzi KBE HonFREng FMedSci, Parliamentary Under Secretary of State, Department of Health

Programme:

1.45pm	Registration	3.40pm	Break
2.15pm	Introduction Dr Sue Ion OBE FREng Vice-President, Royal Academy of Engineering	4.00pm	Joints from concept to implantation-good things and bad things Professor Tony Unsworth FREng Professor of Engineering, Durham University
2.20pm	Keynote address Professor The Lord Darzi, of Denham KBE HonFREng FMedSci Paul Hamlyn Chair of Surgery, Imperial College, Parliamentary Under Secretary of State, Department of Health	4.25pm	Medical imaging Professor Chris Taylor OBE FREng Professor of Medical BioPhysics, University of Manchester
2.50pm	Newer disruptive biotechnologies: opportunities and challenges Professor Sir Alfred Cuschieri FRSE FMedSci Director of the Institute of Medical Science and Technology, Universities of Dundee and StAndrews	4.50pm	Technology transfer at the Wellcome Trust Dr Glenn Wells Senior Business Analyst, Technology Transfer, Wellcome Trust
3.15pm	Towards disposable healthcare devices: a Paradigm shift Professor Christofer Toumazou Research Director Bionics, Institute of Biomedical Engineering, Imperial College London	5.15pm	Q&A Session
		6.00pm	Drinks reception
		7.00pm	Close

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Registration Form

I wish to reserve ticket(s) for the event

Title	First name
Surname	Honours
Position	
Organisation	
Address	
	Postcode
Telephone	Email

I would like to bring a guest(s)

Title	First name
Surname	Honours
Position	
Organisation	Email

Title	First name
Surname	Honours
Position	
Organisation	Email

Please detach and return booking form only

Please return to: Policy Team, The Royal Academy of Engineering,
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Fax: 020 7930 1549 Email: responses@raeng.org.uk
Registered Charity Number: 293074

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 promotes excellence in the science, art and practice of engineering.

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