



The Royal Academy
of Engineering

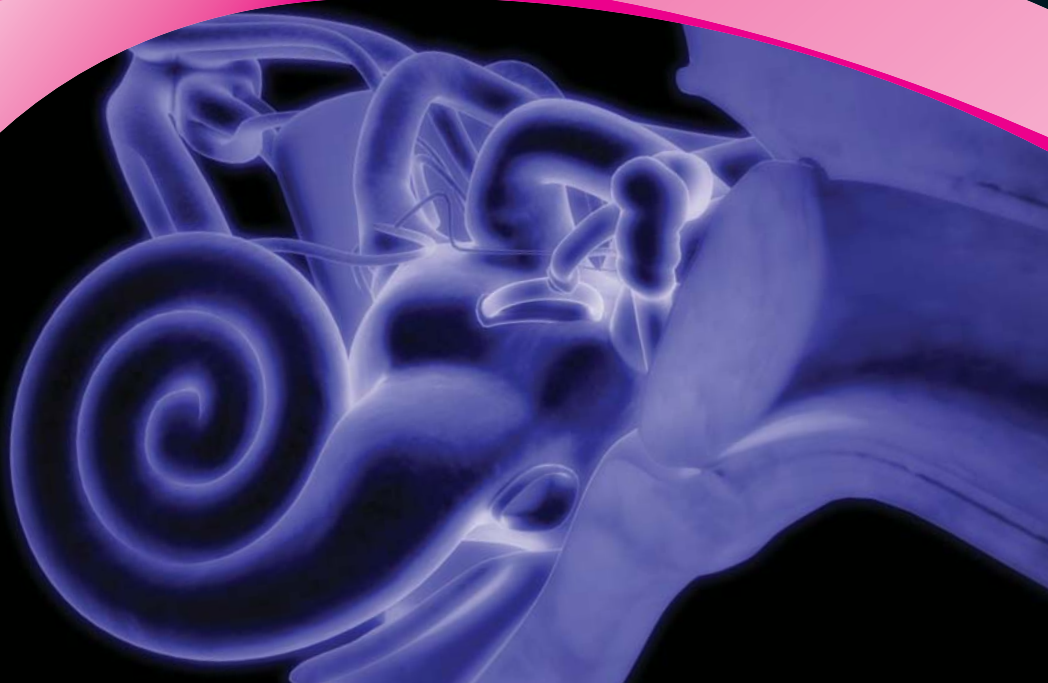
UK Focus for
Biomedical Engineering

Hearing Technologies

Briefing seminar

Tuesday 21 April 2009
1.45pm

The Royal Academy of Engineering
3 Carlton House Terrace,
London
SW1Y 5DG



Hearing Technologies

Briefing seminar

Deafness, of varying levels of severity, affects over 7% of the UK's population. It is estimated that demographic trends will more than double this proportion over the next decade and will place additional demands on healthcare provision. Effective hearing can significantly improve an individual's quality of life and there is a rising demand for hearing devices and other solutions.

Hearing technologies are becoming increasingly sophisticated and there are a range of methods for tackling different types of hearing impairment. Cutting-edge materials, micro-technologies and automated surgical tools offer new opportunities to produce advanced devices that can be implanted efficiently and precisely, with fewer complications. Development is driven by device users and healthcare providers wanting solutions that are low cost, power efficient and easy to implant and use.

This briefing seminar will provide perspectives on the current state of research and development in the context of patient needs, the expected increase in demand over the next 10 years and policy on provision.

Programme

- | | | | |
|--------|---|--------|---|
| 1.45pm | Registration | 3.10pm | The clinical viewpoint: Patient assessment, therapies, devices and future requirements
David Proops, University of Birmingham Healthcare Trust |
| 2.15pm | Introduction
Professor Tony Unsworth FEng,
Chair, UK Focus for Biomedical Engineering | 3.35pm | Break |
| 2.20pm | Deafness and healthcare provision
Professor Quentin Summerfield,
University of York | 4.00pm | Device effectiveness and techniques in hearing processors
Dr Michael Stone, University of Cambridge |
| 2.45pm | Current hearing devices and the technical definition of the hearing system
Professor Eric Abel, University of Dundee | 4.20pm | Advanced implantation schemes
Professor Peter Brett, Aston University |
| | | 4.50pm | Discussion |
| | | 5.30pm | Drinks reception and close |

Hearing Technologies

Briefing seminar

Tuesday 21 April 2009

Registration Form

I wish to reserve place(s) for the meeting on Tuesday 21 April 2009

Title	First name
Surname	Honours
Position	
Organisation	
Address	
	Postcode
Telephone	Email

Guest 1

Title	First name
Surname	Honours
Position	
Organisation	Email

Guest 2

Title	First name
Surname	Honours
Position	
Organisation	Email

Please detach and return booking form only

Please return to: Alice Curnow

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VAT Registration Number: 503 4089 74 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.

UK Focus for Biomedical Engineering

The UK Focus for Biomedical Engineering provides a forum through which the principal organisations concerned with biomedical engineering can communicate, debate and act jointly upon issues which affect the field as a whole. It seeks to influence high level decision makers in the Department of Health, central government, research funding sources and industry by highlighting the important contribution that biomedical engineering makes to healthcare and by encouraging industry to exploit the opportunities available in this field.



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

Registered charity number 293074

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