



The Royal Academy
of Engineering

Prime Innovator lecture series - lecture IV

Encouraging innovative engineering

Tristram Carfrae RDI

Chair Global Building Practice, Arup

Monday 24 January 2011

6.00pm for 6.30pm

Venue:

3 Carlton House Terrace

London SW1Y 5DG



Encouraging innovative engineering



Tristram Carfrae RDI

Tristram Carfrae is an innovative structural engineer designing buildings at Arup. Because buildings should not fall down, structural engineering is an inherently conservative profession. Arup is a free thinking organisation without owners or shareholders and dedicated to shaping a better world.

In his talk, Tristram Carfrae will consider the characteristics of creative people and describe how Arup cultivates such creativity and innovation within this risk adverse context. In doing so, he will refer to some projects that he has helped create; most notably the Water Cube - Beijing's National Aquatics Centre for the 2008 Olympics, recipient of the 2009 MacRobert Award.

Tristram Carfrae

Tristram Carfrae is a structural engineer, Principal and Arup Fellow, responsible for the design of an impressive array of award winning buildings. He is regarded internationally as a leading designer of sporting stadia and lightweight longspan structures. He has a reputation for challenging the established way of doing things, to explore better solutions, moulding both materials and people to his vision.

Tristram Carfrae believes that good buildings should consume less materials, energy, time and money while at the same time providing greater amenity and being beautiful. Having collaborated with many of the world's leading architects, including Renzo Piano, Richard Rogers and Philip Cox, on projects where the structural form is itself an aesthetic statement, Tristram Carfrae is behind the design of the Water Cube.

In 2006, Tristram Carfrae was appointed as a Royal Designer for Industry by RSA in recognition of his achievements in engineering design. He was also awarded the Milne Medal by IABSE, which recognised his work as a designer and his continuing contribution to design excellence. He is named as one of Australia's Top 100 most influential engineers and was Australian Professional Engineer of the Year in 2001.

Programme:

6.00pm Registration
6.30pm Welcome
6.40pm Address

7.30pm Q&A
8.00pm Reception

Upcoming lecture in the series;

Prime Innovator Lecture V

Tuesday 1 February 2011

Speaker: Sir Richard Friend

Chair: Lord Broers FREng HonFMedSci FRS

Venue: 3 Carlton House Terrace

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Registration Form

Tickets

Please note you must reserve tickets for the lecture.

I wish to reserve ticket(s) for the lecture and reception

Title _____ First name _____ RAEng Fellow

Surname _____ Honours _____

Position _____

Organisation _____

Address _____

Postcode _____

Telephone _____

Email _____

Guest

Title _____ First name _____

Surname _____ Honours _____

Position _____

Organisation _____

Email _____

Please return to Helen Berrington

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

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