



**Inaugural Lecture
by Barry Clarke**

Professor of Civil Engineering Geotechnics

*'Earth, Wind
and Fire'*

Wednesday 1st April 2009



Invitation

Programme – Wednesday 1st April 2009

18:00 INAUGURAL LECTURE BY PROFESSOR BARRY CLARKE

'Earth, Wind and Fire'

The majority of our current energy is derived from fossil fuels which have been fundamental to the industrialisation of the nation. However, there is a limited supply with some people suggesting that there are only thirty to forty years of oil and gas left. This has created a political crisis as the Government grapples with the future of UK's energy supply. The use of fossil fuels is also credited with accelerating climate change which many people fear is the greatest threat to our future. Thus the impact of climate change and the future of our energy supply have created an uncertain future which means opportunities. This lecture will highlight some of the challenges that we are facing and how they impact on the ground engineering industry. The opportunities range from ground as a source of renewable energy, energy minimisation through innovative construction processes, mitigation against extreme events and rising sea levels, stabilisation of existing infrastructure to deal with climate change, and developing new infrastructure to meet the changes in demand. Examples of recent and potential developments will be used to demonstrate how ground engineers have a role to play in producing green solutions to these grand challenges.

SESSION CHAIR: Professor John Fisher, Deputy Vice-Chancellor

VENUE: Rhodes Lecture Theatre,
School of Electronic and Electrical Engineering,
Faculty of Engineering, University of Leeds.

19:30 BUFFET AND DRINKS RECEPTION

Professor Barry Clarke

Barry Clarke began his academic career in the Cambridge Soil Mechanics Group where he helped develop a device for testing soil in situ which led to a spin out company. This company took Barry to some fascinating places but more importantly established his interest in characterising the ground. In 1984 he joined the Department of Civil Engineering at Newcastle University to continue his research into site characterisation. This led to a number of standard specifications and commercial devices for the ground engineering industry. Throughout his academic career, which included being Head of Civil Engineering at Newcastle, Barry has retained a strong interest in links between academia and industry leading to a number of

appointments in the construction industry. He is a member of the accrediting body for civil engineering programmes responsible for developing their Further Learning agenda. He represents higher education on the Board of CITB ConstructionSkills and is the Champion of Lifelong Learning for the Construction Industry Council. He has been Chairman of the British Geotechnical Association and Chairman of the Ground Forum. He is currently a Vice President of the Institution of Civil Engineers responsible for Engineering, Policy and Innovation, Vice President of the Engineering Professors Council and a member of EPSRC's Strategic Advisory Team for Process, Environment and Sustainability.

Interested?

If you would like to join us on the 1st April, please complete this reply card indicating the number of places you require:

	Number of attendees
I would like to attend the lecture only.	
I would like to attend the lecture and the buffet and drinks reception.	

Please complete your contact details below:

Title First Name Surname

Position (if relevant)

Organisation (if relevant)

Address

Post Code Country

Email

Telephone

Please state if you have any dietary requirements

Please return this reply card by Wednesday 25th March 2009

Alternatively, email Stephanie Day, s.j.day@leeds.ac.uk with 'Inaugural Lecture' as the subject or telephone 0113 343 8461.

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