Lecture Programme and Venues for 2018-2019

2018

IESIS
A MULTI-DISCIPLINARY ENGINEERING INSTITUTION

Presidential Address
Floating Docks – Past, Present, Future

David Westmore — **Tuesday 25th September 2018**

MD, Lobnitz Marine Holdings Limited

David Westmore will present a fascinating history of the development of floating docks from their early beginnings to the modern goliaths of today. He will explore the different types and how changing technology and ships have influenced their design and what the future holds. David is a Naval Architect. He studied Naval Architecture and Shipbuilding at the University of Newcastle upon Tyne graduating in 1976. He has worked for 35 years with Clark & Standfield, a subsidiary of the Lobnitz Marine Group. Clark & Standfield is one of the leading experts in the design of floating docks having designed, since formed in 1873, more than 200 floating docks ranging in lift capacity from 300 to 110,000 tonnes including some 60 Admiralty floating docks.

17.30 for 18.15, The Trust Hall, Clydeport Building, 16 Robertson Street, Glasgow, G2 8DS

Graphene!- What do we do with it now?

Prof Karl Coleman — **Tuesday 23rd October 2018**

University of Durham

Graphene is not just an exciting prospect for electronics, Karl Coleman will look at graphene and what it can do for engineering. He has researched and taught at the universities of Leicester, Strasburg, Oxford and now Durham. He started his own business on Teeside, Applied Graphene Materials, which develops ways of using graphene for such down to earth applications as paints and coatings, lubricants and composite materials. Karl will discuss setting up and financing the company, where he remains as director and Chief Scientific Officer, and the ways in which graphene can be combined with other materials to enhance performance.

Tbc 17.45 for 18.30, Room 301, McCance Building, Richmond Street, Glasgow, G1 1XQ

Airbus 350 - Design & Development

Gordon McConnell — **Tuesday 13th November 2018**

MacMillan Lecture

Gordon McConnell was the Chief Engineer for the Airbus 350 - a long range wide-body jet airliner that entered service in 2015. An important feature is the aircraft's all-new carbon fibre reinforced plastic wing and fuselage that results in lower fuel consumption, as well as easier maintenance.

In 2014 he was awarded the Royal Aeronautical Societies Gold Medal for work of an outstanding nature in Aerospace. The Council of European Aerospace Societies made their 2016 award to Gordon, stating that 'Through his exceptional leadership in technical and engineering development and personal contribution to the success of Airbus, has made an outstanding contribution to European aerospace.'

Tbc - 17.45 for 18.30, Room K325, John Anderson Building, Rottenrow East, Glasgow, G4 0NG

Scotland's unsung genius
James Clerk Maxwell and his contributions to engineering science

Prof Iain A MacLeod — **Tuesday 4th December 2018**

Joint Meeting with RINA

IESIS Past President Iain Macleod will discuss what may be learned from the educational and lifestyle experiences that, combined with immense natural ability, allowed James Clerk Maxwell (born in Edinburgh, 1831) to become one of the greatest physicists of all time. It is said that a significant proportion of modern physics leads back to Clerk Maxwell's work. A significant amount of the science used in engineering also leads, directly or indirectly, to his work as will be explained.

Tbc 17.45 for 18.30, Room 301, McCance Building, Richmond Street, Glasgow, G1 1XQ

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Ahead of the wave - The new reality for shipping

Douglas Lang — **Tuesday 15th January 2019**

MD, Anglo Eastern (UK) Ltd — Joint meeting with IMarEST/RINA

The fundamentals of ship operation have changed little for centuries but a transition has started and is accelerating. Douglas Lang will tell us where the new reality is heading. Douglas is Group Managing Director (offshore) of Anglo Eastern which offers vessel, crewing and technical consultancy management services. Douglas worked with Denholm, the well-known Glasgow ship management company prior to its merger with Anglo Eastern in 2001. He is a Naval Architect with experience that includes 10 years in research in offshore facilities.

Tbc - 17.45 for 18.30, Room K325, John Anderson Building, Rottenrow East, Glasgow, G4 0NG

Barren to Bountiful-
How engineered crop growth is reducing hunger in the world

Dr Keith Dawson, — **Tuesday 12th February 2019**

Internationally renowned soil scientist

This lecture will take an optimistic view of developments in the provision of food. Despite growing global population, the proportion of people who are undernourished is significantly declining. Keith Dawson will describe how the use of science and an engineered approach to food production is achieving this. Keith is a soil scientist who does work in developing countries to greatly improve their agricultural yield.

Tbc 17.45 for 18.30, Room 301, McCance Building, Richmond Street, Glasgow, G1 1XQ

Carbon Fibre – the evolution of a new material

John Davidson — **tbc-Tuesday 12th March 2019**

Cygnet Texkimp

John Davidson has been in the carbon fibre industry for over 36 years and was involved in the early years of the industry in the UK. He has been involved in the whole value chain, from polymerisation to recycling of composite parts. He will take us through the story of carbon fibre in the UK from its beginning to looking at future applications and uses.

Tbc 17.45 for 18.30, Room 301, McCance Building, Richmond Street, Glasgow, G1 1XQ

The Bloodhound Project
The engineering behind the 1,000mph World Land Speed Record attempt

Mark Chapman — **Tuesday 23rd April 2019**

Engineering Director, Bloodhound Programme Ltd.

Mark Chapman has experience in variety of engineering projects including many years in aerospace engineering. He joined the Bloodhound Project in 2017. The Bloodhound Project is a high-technology project, focused around a 1,000mph world land speed record attempt. It aims to inspire the next generation by bringing science, technology, engineering and mathematics to life in an exciting way.

AGM 17.45 -18.00

Tbc 17.45 for 18.30, Room 301, McCance Building, Richmond Street, Glasgow, G1 1XQ

CPD certificates will be available on the evenings