

# Lecture Programme and Venues for 2018-2019

2018



## 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 of floating docks and how changing technology and ships have influenced their design and what the future holds. David is a Naval Architect. 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.

*17.45 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. Karl will discuss the ways in which graphene can be combined with other materials to enhance performance. Karl started his own business on Teeside, which develops ways of using graphene for such down to earth applications as paints and coatings, lubricants and composite materials.

*18.00 for 18.30, the Laphroaig Room, Teacher Building, 14 St Enoch Street, Glasgow, G1 4DB*

## Airbus 350 - Design & Development

**Gordon McConnell**

**Tuesday 13th November 2018**

Chief Engineer Airbus 350

MacMillan Lecture

The Airbus 350 is 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 lower maintenance costs. Gordon McConnell, Chief Engineer on Airbus 350 project, will take us through the steps from design to entering service.

In 2014 Gordon was awarded the Royal Aeronautical Society's 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.'

*18.00 for 18.30, Carnegie Room, Charles Oakley Building, Glasgow Caledonian University, Glasgow, G4 0BA*

## Scotland's unsung genius

### James Clerk Maxwell and his contributions to engineering science

**Prof Iain A MacLeod**

**Tuesday 4th December 2018**

Past President IESIS

Joint Meeting with RINA

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. Iain will explain how a significant proportion of modern physics and engineering science leads back to Clerk Maxwell's work. Iain is an IESIS Past President

*18.00 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**

MD, Anglo Eastern (UK) Ltd

The fundamentals of ship operation have changed little for centuries, but a transition has started and is accelerating. There are developments in areas of manufacturing, technology, operations and environmental concerns. Traditional boundaries are disappearing, manufacturers are moving further downstream, new transformative digital technology has the potential to enable industry wide re-modelling and all the while the "greening" process needs to accelerate. 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.

*18.00 for 18.30, Room K325, John Anderson Building, Rottenrow East, Glasgow, G4 0NG*

**Tuesday 15th January 2019**

Joint meeting with IMarEST/RINA

## **Barren to Bountiful-**

### **How engineered crop growth is reducing hunger in the world**

**Dr Keith Dawson**

President of the Scottish Society of Crop Research

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 has been able to increase food production and help to address the question of food security.

Keith is an internationally renowned soil scientist who does work in developing countries to greatly improve their agricultural yield.

*18.00 for 18.30, Room 301, McCance Building, Richmond Street, Glasgow, G1 1XQ*

**Tuesday 12th February 2019**

## **Carbon Fibre – the evolution of a new material**

**John Davidson**

Product Director 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.

*18.00 for 18.30, Room 301, McCance Building, Richmond Street, Glasgow, G1 1XQ*

**Tuesday 12th March 2019**

## **The Bloodhound Project**

### **The engineering behind the 1,000mph World Land Speed Record attempt**

**Mark Chapman**

Engineering Director, Bloodhound Programme Ltd.

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. In the second quarter of 2019, Bloodhound supersonic car will run for the first time on its specially created race track at Hakskeen Pan, South Africa. Mark Chapman has experience in variety of engineering projects including many years in aerospace engineering. He joined the Bloodhound Project in 2008.

**AGM 17.45 -18.00**

*18.00 for 18.30, Room 301, McCance Building, Richmond Street, Glasgow, G1 1XQ*

**Tuesday 23rd April 2019**