



## Message from our President

David Westmore



As the lecture programme rolls towards our final lectures for this session, your Council is currently developing the 2019/2020 programme where we already have several great lectures planned for you including one by Stephen Payne, designer of the Queen Mary, who will be giving a talk on the QE2 to commemorate 50 years since she first entered service and Naeem Hussain, the bridge designer who designed the Queensferry Crossing

To improve the service that we provide to you, you will have received a questionnaire in February which Council will use to formulate our strategy for the future. The more information you provide us, the better we can cater for the many diverse views of the Institution's membership. However, please do not just rely on the questionnaire to air your thoughts but please let us know at any time. By the time of our Summer Bulletin we will be able to report the outcome.

I hope that you will find interesting information in this bulletin and look forward to your continued support.

*David M. Westmore.*

Dear friends, I hope that you find our bulletins of interest and helps us keep you up to date with the various activities of the Institution.

As we progress through this session, I am delighted to say that attendance at our lectures have been well attended and the feedback has been good. There were some issues with the quality of sound with some of our initial lectures but I am glad to say that these appear to have been resolved.

### Scottish Engineering Hall of Fame

The Scottish Engineering Hall of Fame is an IESIS initiative set up by Past President Professor Gordon Masterton, OBE. A list of the names are displayed at Scottish Engineering Offices and the full list can be viewed at the website <http://www.engineeringhalloffame.org/>. Inductees are decided by the Selection Panel. The Selection Panel is formed from representatives from a long list of supporting organisations and esteemed figures

Members of the Institution and public are encouraged to put forward names for consideration which can be done through the web site or by contacting the secretary of the Institution. We want you to tell us of deserving candidates. Please give a justification and submit the application for consideration by the Judges. We may contact you for more details.

The first meeting of the Selection Panel was held on Thursday 28th March in the Trades Hall, Glasgow.

### For your Diary:

James Watt Dinner 2019 will be held at the Radisson Blu, Glasgow on 4th October 2019

For this year's James Watt Dinner details:  
[www.iesis.org/jwd.html](http://www.iesis.org/jwd.html)

**We are pleased to  
congratulate IESIS Honorary  
Fellow Dr Susan Scurlock on  
her recent MBE!**

# Engineering for Energy: A Proposal for Governance of the Energy System

IESIS has published its call to action in a report, *Engineering for Energy: A Proposal for Governance of the Energy System*, which has been delivered to the Scottish and UK governments and was widely reported

in the Glasgow Herald on 29th November 2019 (<https://www.heraldsotland.com/news/17262860.blackouts-deaths-and-civil-unrest-warning-over-scotlands-rush-to-go-green/>)

## The Sir Robert Easton Awards

At the 2018 James Watt dinner, two members of the Institution were presented with Sir Robert Easton Rose Bowls by the President, David Westmore, FIES. The award is given to those individuals who have given exceptional service and made significant contributions to the activities of the institution.



Professor Iain MacLeod, FIES, is a past president of the Institution who recognised the need for engineering to be more accessible to youngsters to attract more school leavers into the engineering profession. In addition to working with Primary Engineer he set up the Professional Engineer website, ProfEng, to provide resources for school career guidance into the engineering profession. This is supplemented by lectures which he continues to arrange. He also recognises the growing demands of the UK energy system and introduced the IESIS Energy Strategy website setting out the Principles for the formulation of an Electricity System Policy to avoid future risk of blackouts. He has also prepared an IESIS paper "To Engineer" about strategies for solving complex problems and applicable to both engineers and non-engineers alike. He continues as an active member of council and has recently completed *Engineering for Energy: A Proposal for Governance of the Energy System* as well as working on the Institution's annual journal of papers. He has given several IESIS lectures over the years relating to his field of civil engineering as well as workshops and representing IESIS far and wide.



Professor Gordon Masterton, OBE, FIES, is a Past President of the Institution and set up one of the most important initiatives to both engineers and the people of Scotland. In 2011 he set up the Scottish Engineering Hall of Fame supported by the Royal Academy of Engineering, The Royal Society of Edinburgh and other Scottish Engineering Organisations which has become a prominent feature of the James Watt dinner. Having set up the Hall of Fame, he has continued each year to organise and chair the selection committee of the various organisations and institutions whilst running the Scottish Engineering Hall of Fame website. He is currently the Deacon of the Incorporation of Hammermen of Glasgow which provides substantial support to engineering students in and around Glasgow and is shown receiving his award wearing the Hammermen chain of office. In addition, Gordon has also given several papers, his most recent being *Crossrail*, as well as various articles to IESIS and representing IESIS at various events.



To celebrate the 200th anniversary of the birth of William John Macquorn Rankine in 1820 and the First President of our Institution, the Institution is organising with the Institute of Refrigeration a Rankine Conference to be held next year at the Glasgow University.

More details will follow later this year.

## Profeng – supporting future engineers

Following in the recent success of schools talks from top engineers, David Watson arranged for Space Engineer Steve Lee, Managing Director of Astrosat, to speak to young students from a variety of Edinburgh schools on 29th March 2019 at Liberton High School, Edinburgh.

Steve will describe satellites in the near cosmos that provide storm tracking and monitoring of coastal erosion also earthquake/forest fire damage assessments producing interactive digital mapping of disaster situations to governments and direct to rescue teams in the field.

## Members Visits

Members interested in attending the following visits should contact the secretary, details on page 1.

### AFRC Inchinnan

*Visit Date: Tuesday 14th May, 6.00pm*

The University of Strathclyde's Advanced Forming Research Centre (AFRC) is a globally-recognised centre of excellence in innovative manufacturing technologies, engineering research and development, and metal forming and forging research.

The AFRC helps to fill the gap between fundamental academic research and industry. We help companies to turn innovative technologies and ideas into a commercial reality that will increase their competitiveness, boost their business and secure the manufacturing sector in Scotland and the UK for generations to come.

- £60m facility established in 2009



- £38.5 million project portfolio
- Over 400 projects; 331 with industrial clients
- 5,680m<sup>2</sup> research space

### Glasgow Museums Resource Centre, Nitshill

*June 2019, Saturday morning – date to be confirmed*

Wondered where all the models that are not displayed at the Riverside Museum kept? They are kept at the Glasgow Museums Resource Centre, Nitshill which houses the reserve collection of ship models

Members will be shown around the facility and view the large number of models on display.



# The Ballast Trust: The Business of Archives

When our traditional industries began to falter and decline from the 1950's, they left a heritage of business records at risk of disposal. Within this there was the issue of technical records, which were little understood by historians or archivists. With this problem in mind the Ballast Trust was established in 1988 by Dr Bill Lind as a charitable organisation with focus on the rescue, preservation and processing of the technical records of these industries, notably, the huge volume of drawings, plans, blueprints and photographs in print, negative and glass plate format.

The Ballast Trust is based in Johnstone in the Monarch Works, an ex- furniture factory. Its premises are not an archive, but it receives collections, processes them, and returns them to the parent archive. Following Bill Lind's death in 2007, the Ballast Trust is now managed on behalf of the Trustees by Kiara King as Archivist and Manager and Tony Slaven as Director. Since its inception in 1988 the Ballast Trust has taken in some 100 collections, 29 relating to shipbuilding and marine engineering and another 20 from companies in other branches of engineering. The remainder cover the other main Scottish industries.

Notable collections processed came from the closure of Trafalgar House, these being the constituent companies of the Scott Lithgow empire and the rump of British Shipbuilders, (now with University of Glasgow archives). The initial rescue took four years based in the Joiner shop in the Kingston Yard, before transferring to the Ballast Trust premise in Johnstone. Other large-scale projects included Kvaerner Kincaid in marine engineering (Glasgow City Archives), Mavor and Coulson and Anderson Strathclyde in mining engineering (Glasgow City and North Lanarkshire archives respectively). Major locomotive builder collections came from Andrew Barclay and Hunslet Barclay in Kilmarnock (University of Glasgow Archives). Photographic collections include the Dan Macdonald Clyde Shipping collection (at the Ballast Trust), and the Langmuir locomotive photo albums (at the Mitchell Library).

All the processing of these collections is carried out by a team of dedicated volunteers drawn from the retirees of our great traditional companies, bringing with them



the skills to understand and explain the technical records of our industrial heritage. We also have a Surveying Officer who undertakes rescue and record surveys, together with record management advice and commissioned surveys.

More information on all our collections can be followed on our website [www.ballasttrust.org.uk](http://www.ballasttrust.org.uk), and in our Twitter feed ([@ballasttrust](https://twitter.com/ballasttrust)), our blog ([www.ballastblog.blogspot.com](http://www.ballastblog.blogspot.com)) and Flickr site ([www.flickr.com/photos/ballasttrust](http://www.flickr.com/photos/ballasttrust)).

## **Tony Slaven**

*Director, the Ballast Trust*

*Tony Slaven is a Past President of the Institution*