



IESIS

THE 110<sup>TH</sup> ANNUAL

*James Watt Dinner*

Featuring

The Scottish Engineering  
Hall of Fame





James Watt Dinner 2020  
will be held on

*Friday 9th October*

On behalf of IESIS may I extend a very warm  
welcome to you and thank you for  
your attendance and support.

Our aim for the evening is to provide a relaxed  
occasion for meeting old friends, making new ones  
and entertaining colleagues and clients from all  
areas of engineering and related businesses.

The Scottish Engineering Hall of Fame celebrates  
the achievement of Scottish engineers. It was  
launched in 2011 and tonight we will  
reveal the 2019 inductees!

I hope that you will have  
a very enjoyable evening,

*David Westmore*

President  
IESIS

Get Involved  
If you would like to join IESIS please go to  
[www.IESIS.org](http://www.IESIS.org)

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## THE HISTORY OF *The James Watt Dinner*

In 1880 the Association of Foremen Engineers held an annual dinner on the anniversary of James Watt's birthday in the McCulloch Tavern off Argyle Street in Glasgow.

The Institution held its first Annual Dinner in 1882 in the Grand Hotel in Glasgow.

In 1887 by mutual agreement; the Association of Foreman Engineers, the Philosophical Society of Glasgow and the Institution held their first joint James Watt Dinner in Glasgow. After 1887 the Association of Foreman Engineers are no longer mentioned in reports of the dinner, after 1892 the Philosophical Society of Glasgow are no longer mentioned in the accounts of the event.

The event was typically held in January until 1921 when the date was moved to later in the year, initially November and latterly October.

The James Watt Dinner, with few exceptions in the past 136 years, has been an important event in the social calendar for engineering in Scotland.

Tonight is our 110th James Watt Dinner\*

\*At various times over the last 136 years the dinner has not been held. ie. during the war years



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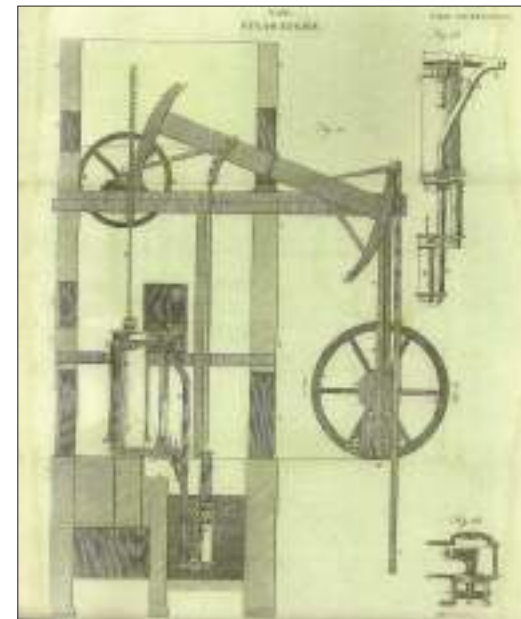
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200<sup>TH</sup>

*Anniversary*

At this year's dinner we commemorate the death of James Watt and reflect on his contribution to all of our lives. James Watt's most famous work was on the improvement to the steam engine, although Newcomen had invented the steam engine several years before it was not an efficient machine and had not been widely adopted.

The genius of James Watt's idea was add a separate condenser to the engine, this condenser allowed the steam to create a differential vacuum which created the movement of the piston, thus creating a usable source of power.



*Kyleakin**Lochboisdale**Tarbert, Harris**Ullapool*

## THE HISTORY OF *The Immortal Memory Toast*

Around the late 1700s and early 1800s it was a common tradition to offer a toast to the Immortal Memory of the recently deceased.

Only three people are celebrated today with Immortal Memory Toasts: Robert Burns, Admiral Lord Nelson and James Watt.

The first dinner held to commemorate Burns' life and work was held in 1801. At that dinner a toast to Burn's Immortal Memory was given. The toast celebrated all aspects of Burns' work, life and legacy. Within a few years Burns life was being celebrated by many groups on the anniversary of his birthday, 25th January.

In 1806 a dinner was held at Oxford University where a toast was made to the recently deceased Admiral Lord Nelson: this Immortal Memory toast was held in silence. The tradition of toasting the Immortal Memory of Admiral Lord Nelson is still celebrated by navies and maritime groups around the world.

The celebration of James Watt was started by members of our Institution in 1867. Our records show that a toast to the Immortal Memory of James Watt was 'pledged in solemn silence'. The Immortal Memory Toast to James Watt has continued since those early days of the James Watt Dinner.

IESIS is very privileged to continue this fine tradition of honouring the memory and achievement of James Watt.



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## 2018 INDUCTEES

DAVID ELDER

1785-1866

Marine Engineer, notable designer and builder of industrial buildings and their power systems, including the premises of Robert Napier's firm. Designer and builder of a succession of engines and boilers for key vessels in the development of ocean-going steam navigation between the mid-1830s and the early 1850s.

WILLIAM KINNINMOND BURTON

1856-1899

Public health engineer, educator and Japan's saviour from cholera. At age 32 Burton accepted the position of Professor of Sanitary Engineering at the Imperial University of Tokyo, where he came to be the Japanese Government's consultant on sanitary conditions and water supply. Burton designed Japan's first "skyscraper", the famous Ryounkaku. Concurrently he founded the Photographic Society of Japan.

VICTORIA ALEXANDRINA DRUMMOND

1894-1978

ship's engineer, pioneering woman engineering role model. She was the first woman to go to Sea as a Marine Engineer and first woman to become a Member of the Institute of Marine Engineers now the Institute of Marine Engineering, Science and Technology. She was made a Member of the British Empire (MBE) the citation reading 'For devotion to duty'.

NAEEM HUSSAIN

b. 1942

Civil and structural engineer.

Naeem was the concept designer and leader for the illustrative design of the 3-tower cable stayed Queensferry Crossing bridge with composite spans of 650m, which he has described as a 'blade of light across the Firth'. Naeem has worked on road and rail bridges, viaducts and railway stations in Australia, New Zealand, China, Korea, Thailand, Indonesia, Vietnam, Myanmar, Maldives, India, Iran, Qatar, South Africa, Turkey, Canada and USA.



Scottish Engineering  
Hall of Fame

[www.engineeringhalloffame.org](http://www.engineeringhalloffame.org)

## TOP TABLE

### *Guests*

HOST • DAVID WESTMORE  
President IESIS

BAILIE PHILIP BRAAT  
City of Glasgow

COMMODORE DONALD DOULL  
RN Naval Base, Faslane

PROF BRUCE WOOD  
Deacon • Incorporation of Hammermen, Glasgow

MR MICHAEL KILPATRICK  
Scottish Branch Chairman  
Institution of Structural Engineers

MR IAN WHITE  
Chairman, Scottish Branch,  
Royal Institution of Naval Architects

MR STUART HAIG  
Chairman, Scottish Branch,  
Institution of Engineers and Technology

MR RENJEEV KURUP  
Chairman • Aberdeen Maritime Branch

MR JIM YOUNG  
Scottish Chair • Institution of Civil Engineers

PROF SCOTT ROY  
James Watt School of Engineering  
University of Glasgow

MR ALAN STEWART  
Scottish Chair  
Institution of Mechanical Engineers

MR RICHARD WAKEFIELD  
Chairman, Scottish Branch  
Institution of Marine Engineering,  
Science and Technology

### *Menu*

Warm tartlet of creamed leek and roasted  
smoked salmon, lemon and chive crème fraîche

Lentil and thyme soup

Chicken breast stuffed with black haggis,  
parsley pomme puree, roasted carrot  
& turnip clapshot, seasonal greens and  
peppercorn cream

Apple crumble tart with toffee sauce  
and cinnamon ice cream

Tea, coffee and tablet

## PROGRAMME

### *For The Evening*

Welcome

TOAST TO JAMES WATT

in silence

David Westmore, President IESIS

GRACE

DINNER

LOYAL TOAST

PRESIDENT'S COMMENTS

David Westmore, President IESIS

RAFFLE

BREAK

HALL OF FAME

Gordon Masterton, Chair of SEHoF

MUSICIANS

Jocelyn Pettit & Calum McIlroy

VOTE OF THANKS

Andy Pearson, Vice President, IESIS

NETWORKING

## LECTURE PROGRAMME

*2019-2020*

SUBSTANCE WITH STYLE:

THE IMPORTANCE OF ENGINEERING DESIGN

Naeem Hussain • The MacMillan Lecture

Global Bridge Design Leader, Ove Arup and Partners

Joint meeting with IStructE

Thursday 3rd October 2019 • 18.00 for 18.15

Room K325, John Anderson Building,

107 Rottenrow East, Glasgow G4 0NG

MICRO-TO-MACRO:

SPACE TECHNOLOGIES AT EXTREMES OF LENGTH-SCALE

Colin McInnes

James Watt Chair, Prof of Engineering Science, University of Glasgow

Tuesday 12th November 2019 • 18.00 for 18.30

Room 301, McCance Building, Richmond Street, Glasgow, G1 1XQ

50TH ANNIVERSARY OF QE2:

STANDING THE TEST OF TIME?

Dr Stephen Payne

Designer, Queen Mary 2

Wednesday 27th November 2019 • 18.00 for 18.30

Joint meeting with RINA

Glasgow City Chambers, 82 George Square, Glasgow G2 1DU

HOW CAN WE BUILD ECONOMICALLY

VIABLE GRID-SCALE ENERGY STORAGE?

Win Rampen

Chair of Energy Storage at the University of Edinburgh

Tuesday 14th January 2020 • 18.00 for 18.30

Joint meeting with IMarEST

Room 301, McCance Building, 16 Richmond Street, Glasgow, G1 1XQ



# LECTURE PROGRAMME

*2019-2020*

## ENGINEERING ON THE BUSES - TECHNICAL DEVELOPMENTS IN THE BUS INDUSTRY

Jamie Wilson

Head of Concepts & Advanced Engineering Alexander Dennis Limited

Tuesday 11th February 2020 • 18.00 for 18.15

Room 301, McCance Building, 16 Richmond Street, Glasgow, G1 1XQ

## GET YOUR HANDS OFF MY DIGITAL ASSETS! CYBER SECURITY IN 2020

Dr Natalie Coull

Head of Division of Cyber Security in the  
School of Design and Informatics, Abertay University

Tuesday 10th March 2020 • 18.00 for 18.30

Room 301, McCance Building, Richmond Street, Glasgow, G1 1XQ

## WHAT'S COMING DOWN THE TRACKS FOR SCOTTISH RAILWAYS? ENGINEERING A TRANSFORMATION OF THE NETWORK

Alex Hynes

Managing Director, ScotRail Alliance

Tuesday 21st April 2020 • 18.00 for 18.30

Joint meeting with IMechE

Room 301, McCance Building, Richmond Street, Glasgow, G1 1XQ

AGM 17.45 - 18.00

## CELEBRATING THE LIFE AND LEGACY OF WILLIAM MACQUORN RANKINE

Various speakers

Monday Morning, The Bute Hall, Gilbert Scott Building,

University of Glasgow, Glasgow G12 8QQ

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## James Watt Commemorative Tartan

**Inverclyde is celebrating the life and work of James Watt, Greenock born inventor, mechanical engineer and chemist, by designing a commemorative tartan.**

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**His Inverclyde heritage** - teal

**Invention** - orange, the spark of an idea

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# GLASGOW CHILDREN'S *Hospital Charity*



Glasgow Children's Hospital Charity sits at the hearts of Scotland's busiest children's hospital raising funds to help young patients and their families receive the extra special care they deserve.

Nearly 200,000 babies, children and young people are cared for each year at Glasgow's Royal Hospital for Children. With your help, Glasgow Children's Hospital Charity can be there for those children and their families when they need it most.



With your support, the charity is able to fund:  
Enhanced Medical Equipment - giving medical staff the resources they need to deliver the highest standard of care.  
Paediatric Research - striving for the best medical outcomes for children today, tomorrow and for generations to come.  
Hospital Play & Events Programmes - bringing joy, laughter and welcomed distractions to children in hospital every day, making their experience less worrying and more enjoyable.  
Family Support Services - providing invaluable support to children and their families in hospital during some of the most difficult times of their lives.



## YOUR SUPPORT MATTERS

Glasgow Children's Hospital Charity relies on your support to give young patients and their families access to care and hospital experiences which are second-to-none.

We are delighted to be the charity partner for the 110th Annual James Watt Dinner and would like to thank all of tonight's guests for their generosity. Thank you.

To learn more about the work of Glasgow Children's Hospital Charity, please visit:  
[www.GlasgowChildrensHospitalCharity.org](http://www.GlasgowChildrensHospitalCharity.org)



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J O C E L Y N  
*Pettit*



From the West Coast of Canada, Jocelyn Pettit is an award-winning fiddle player, stepdancer, singer, and composer.

Jocelyn has performed extensively throughout Canada, and toured across the U.S.A., the U.K., and Europe. She has shared the stage with renowned artists, The Battlefield Band (Scotland), Carlos Núñez (Spain), and The Chieftains (Ireland) for the West Coast Canada component of their 50th Anniversary Tour.

Jocelyn has two self-produced albums – her debut received multiple award nominations, and her latest album, *Caravan*, was nominated for “World Artist of the Year” at the 2017 Western Canadian Music Awards, and at the 2016 Canadian Folk Music Awards.

Jocelyn is currently pursuing a Master of Music degree in Scottish Music at the Royal Conservatoire of Scotland.

Website: [www.jocelynpettit.com](http://www.jocelynpettit.com)

C A L U M  
*McIlroy*



Calum McIlroy is a guitarist, mandolinist and Scots singer from Elrick in Aberdeenshire. A proponent of the flat-picking style of guitar and mandolin playing, a strong sense of melody is at the heart of his music.

His arrangements feature self-composed material, as well as tunes from a variety of traditions, all presented with detail and intricacy.

A student at the prestigious Royal Conservatoire of Scotland, he has been taught by highly regarded tutors such as Kevin MacKenzie, Innes Watson and Fiona Hunter.

He fronts his own trio featuring Megan MacDonald (Eabhal, HEISK) on accordion and backing vocals, and Ruairidh Gollan on fiddle.

THANK YOU  
*Charity Raffle Prizes*

IESIS would like to thank;

IESIS would like to thank; Lloyd's Register EMEA, the Royal Yacht Britannia, Escape Glasgow, Pitlochry Festival Theatre, the Falkirk Wheel, Waverley Excursions Ltd, Radisson Blu Hotel, HMS Unicorn, Camera Obscura, Scottish Exhibition Centre and Inver House Distillers for their support and very generous donations to our charity raffle.

THANK YOU  
*Sponsorship*

IESIS thanks Oracle Academy, Lloyds Register EMEA, Western Ferries (Clyde) Ltd, Wallace Stone LLP and George Leslie for their generous sponsorship which has allowed us to make the event the success we hope it will be.

Menu Programme, Guest List and student places  
sponsored by Oracle

Top Table Drinks and piper sponsored by Wallace Stone  
Student places sponsored by George Leslie Ltd

THANK YOU  
*Behind The Scenes*

IESIS would like to thank;

Mr David Westmore for the Audiovisual Display

The McLean Art Gallery  
for the loan of the James Watt painting

Miss Rhoda Preston for Graphic Design

The staff at The Radisson Blu Hotel

We Are Cameron for AV support

Photographers, Nathan and Cameron from KHCFCreative

Master of Ceremonies Mr John Coyne

Piper Mr David Rice\*

Primary Engineer and Femeng for the Reception Display

Prof Gordon Masterton

Scottish Engineering Hall of Fame Judges Panel

The Print Box for Printed Materials

\*This is David's first evening with us,  
we are pleased to be able to support young talent

Images used during musicians performance are from Michael Barnes –  
please see <https://www.flickr.com/photos/126394262@N02/>





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## *Nomination*

ENGINEERS NAME

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CONTRIBUTION

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NOMINATED BY

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CONTACT DETAILS

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Nominations can also be made on the website  
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Thank you for your nomination.



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