


ANNUAL REVIEW 2022/23



Union Terrace Gardens. Winner of the Placemaking Award at the Scottish Civil Engineering Awards.

Chair's Report

This has been another busy year for ICE Scotland.

I have just started my second year as chair after the Scotland Committee decided, that to help keep momentum and reduce learning curves, there should be two-year cycle for the role. I was honoured to be asked and look forward to paving the way for Ellen Halkon to take over in late 2024.

I'd like to thank David Cole, our previous chair for all his work, particularly his role in resolving some challenging issues around the new regional constitution. It was not glamorous work, but required tenacity and diplomacy which David clearly demonstrated. Thank you, David.

We welcomed visits by ICE Presidents Keith Howells and Prof Anusha Shah and

our new ICE director general and secretary, Dr Janet Young, all of whom were impressed by the skills and enthusiasm of members in Scotland.

The ICE Scotland committee continued its work in being the external face of our members to wider society. As well as supporting the great work by our branches across Scotland, the committee members, along with our director Ben Westland and his team, worked behind the scenes to look at how we can re-shape the committee to better represent our ICE Scotland members. This work will continue into the coming year.



Chair's Report (cont'd)

We have brought the ICE Scotland Museum, based at Heriot Watt University, more into the corporate ICE and look forward to positive developments as this relationship grows.

ICE Scotland continues to work closely with partners in our sector. Working with CECA Scotland, we once more delivered the Scottish Civil Engineering Awards, celebrating the work of the teams behind a range of diverse projects that had a positive impact on our communities.

With the challenges of climate change and resilience facing Scotland, I have been pleased to represent our members' expertise twice on BBC Radio Scotland, covering the proposals for the A83 Rest and Be Thankful, and more recently the impact of flooding from storm Babet. Our view on the challenges of flood resilience were also featured on the front page of The Times.

Going forward, there is still much to do. We need further engagement with politicians and the media to ensure the independent, impartial expertise of our members is heard, understood and acted upon.

Civil engineering underpins our society and we have responsibility to face the challenges ahead, including climate change, resilience and net zero. ICE Scotland is well placed to be an expert, independent voice, bringing benefits to our communities and our members.

Donald Bell
Chair, ICE Scotland

Regional Director's Report

ICE's membership in Scotland and the level of engagement with our 8,000 members continues to grow.

Welcome to our new members who joined this year and congratulations to those who achieved a qualification, become a Fellow or celebrated the milestone of 50 year membership this year.

As demonstrated throughout this document, hundreds of our members continue to volunteer in a huge variety of ways to support the institution, individual members and our externally facing work with the wider profession and sector, from STEM work with schools to reviewers, committee members, subject experts and more. Thank you to everyone for their contribution! The passion and commitment shown to ICE and the profession from our membership is one of ICE's key assets. If you would like

to be more involved, please don't hesitate to get in touch.

During 2023, 72 knowledge events were held between our five branches, three Special Interest Groups and Regional Support Team, covering a wide range of topics, in a range of locations from Inverness to Berwick-upon-Tweed.

As mentioned by Donald, over the last 14 months we've secured regular visits by ICE's leadership to raise the profile of infrastructure opportunities and challenges and the Institution's work in Scotland.

Following the presidential visit with Keith Howells in November 2022, in April we arranged a joint visit with the Aberdeen



Regional Director's Report (cont'd)

Association of Civil Engineers, for ICE's new director general and secretary, Dr Janet Young. Hosted by SSE Thermal, she visited the existing gas fired power station at Peterhead, learned about proposals for a replacement facility as part of wider North Sea Carbon Capture developments and visited the recently opened South Harbour in Aberdeen.

In November, Network Rail hosted a presidential visit with Prof. Anusha Shah to the reopening of the Levenmouth Rail Link in Fife and we organised a successful presidential roundtable event on the potential for further nature-based engineering solutions in Scotland. Further visits are planned for 2024.

Sadly Vicky Judd left us for pastures new at the end of 2022 but in the spring we were fortunate to welcome Lyndsey Pollock who joined us as regional co-ordinator. I would like to thank Alison, Gordon and Lyndsey for all their hard work throughout the year.

Looking forward to 2024, we're planning on delivering more informative events, forging more partnerships and engaging with policymakers to ensure the following points are understood and prioritised:

- The role of Scotland's infrastructure as an enabler of economic growth
- In the face of projected climate change impacts, the need for significant investment in the resilience of our traditional and modern day infrastructure assets
- The role that decarbonisation of our infrastructure can play in the transition to a net-zero economy.

If you wish to support this work, please reach out.
Best wishes for a prosperous 2024.

Ben Westland
Regional director, ICE Scotland

ICE Scotland AGM 2023



The 2023 ICE Scotland AGM took place on November 2nd at the magnificent Merchant House in Glasgow.

Over 50 people attended the event which was opened by chair Donald Bell who gave an overview of the year before treasurer Martin Hinton gave an update on finances.

There then followed a vote with members unanimously agreeing to adopt the a revised version of the 'Scotland Regional Annex'. This revised version allows ICE Scotland members to vote by email, post or by proxy.

The AGM also marked the start of Donald Bell's second year as ICE Scotland chair after the ICE Scotland Committee

recently agreed that in the future the role will always be a two-year post rather than one-year.

Following the AGM, CEO of the Scottish Environmental Protection Agency, Nicole Paterson, gave a timely talk about the organisation's role in making Scotland's infrastructure more resilient while Eleanor Lawton, a graduate engineer SSE Renewables, presented on the projects currently underway, and planned, in the offshore wind sector.

118th Glasgow and West of Scotland Branch Annual Dinner

The annual dinner is always one of the highlights in the Scottish civil engineering calendar and this year proved no different.

Over 730 guests attended the event held on November 22 at the Double Tree Hilton in Glasgow and feedback has been overwhelmingly positive.

Before the dinner, there was a VIP drinks reception where the guests of honour, those members who had achieved their 50th anniversary, were celebrated. One hundred and two members reached this landmark and fortunately around 20 were able to attend.

The dinner was hosted by comedian Jo Caulfield and the welcome given by GWoS chair Takomborerwa Hove.

ICE President Prof Anusha Shah, along with ICE director general and secretary Dr Janet Young, then took part in a 'fireside chat' with member Lewis Hoggan, answering questions around the future of civil engineering sector.

Over £6,500 was raised in the charity raffle, with funds going to the ICE Benevolent Fund, which helps all civil engineers who are, or have been, members of ICE and their families.



ICE Scotland Awards 2023

This year we recognised some of Scotland's outstanding engineers for their expertise and excellence.

The ceremony took place as part of the prestigious ICE Scotland GWoS Branch Annual Dinner and the winners were presented with their awards by the ICE President Prof Anusha Shah and the ICE director general and secretary Janet Young.

The winners were:

INSPIRATION AND SUPPORT AWARD

A member who goes beyond their duty to support and inspire others in their network, fostering a culture of inclusion, innovation and excellence.

Dr Caroline Devaney

(Principal engineer at Mott MacDonald)

DIVERSITY AND INCLUSION CHAMPION AWARD

A member who is passionate about ensuring the profession is inclusive and representative, takes a holistic view of diversity, and challenges discrimination.

Dr Margi Vilnay

(Senior lecturer in structural engineering and director of public engagement and outreach, University of Dundee). Margi was unable to attend so Kevin Smith from ICE's Tayside and Fife Branch received it on her behalf.



ICE Scotland Awards 2023 (cont'd)

SUSTAINABILITY CHAMPION AWARD

A member who has made a transformational impact championing sustainable practices across the industry.

Eftychia Koursari

(Principal project manager at Amey Consulting)

OUTSTANDING CONTRIBUTION AWARD

A member who has made an outstanding contribution to the Institution of Civil Engineers and its members in Scotland.

Donald Bell

(ICE Scotland chair and principal at s82 consulting)

EMERGING ENGINEER

Katie O'Neill

(University of Glasgow/AECOM)

STEM AMBASSADOR OF THE YEAR

Winner – **Rebecca Rawlinson** (Jacobs)

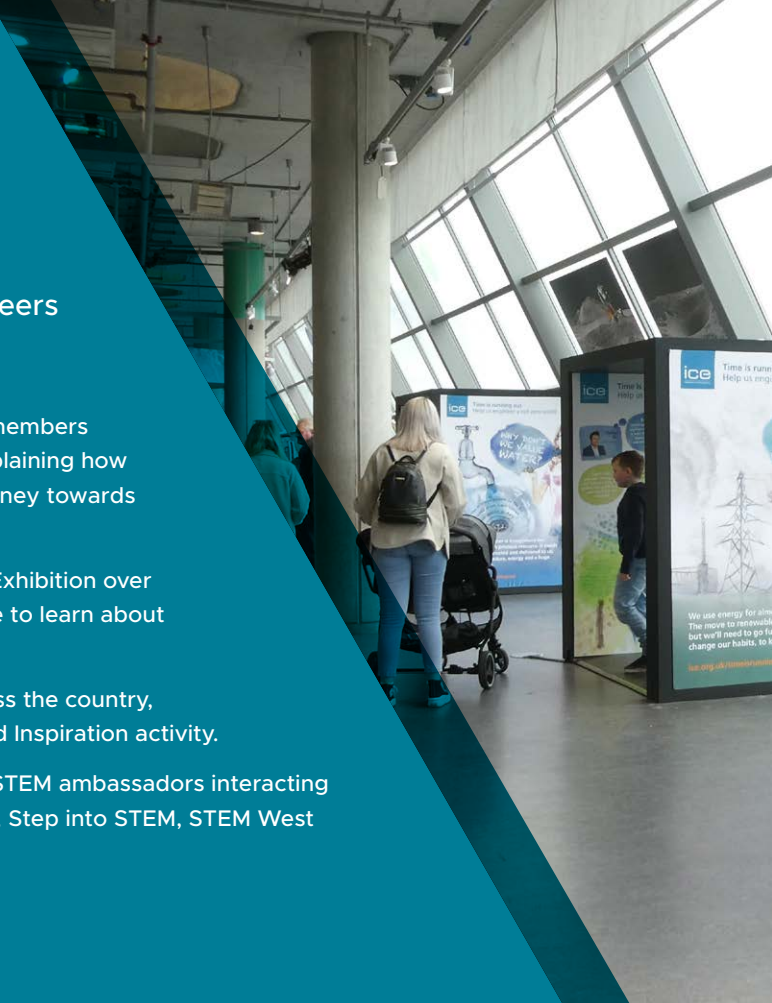
Highly commended – **Kevin Smith** (Waterman Aspen)



Education and Inspiration

During the academic year 2022/2023, ICE STEM ambassadors supported a wide range of young people, enabling them to find out more about careers in civil engineering and infrastructure.

- The priority group continues to be the 16-18 age range, with members delivering presentations to over 1200 senior phase pupils, explaining how civil engineering design and construction is helping in the journey towards net-zero.
- Glasgow Science Centre hosted the ICE Time is Running Out Exhibition over the school spring holidays giving over 18000 visitors a chance to learn about the impact of civil engineering and climate change.
- School engagement was very much back to face to face across the country, with over 4500 pupils involved in person, in ICE Education and Inspiration activity.
- Larger scale STEM and Science fairs were back too, with ICE STEM ambassadors interacting with young people and families at the Falkirk Science Festival, Step into STEM, STEM West and Bang Goes D&G.



Education and Inspiration (cont'd)

- 16 Scottish schools have participated in the ICE CityZen Award, with teams of pupils completing online challenges, each mentored by an ICE STEM ambassador.
- Seven training webinars on “How to inspire future civil engineers” were delivered to a wide range of ICE members on how to volunteer for Education and Inspiration activity.
- The ICE Scotland civil engineering walking trails continue to be popular with school groups and tourists alike, with a new Dumfries Bridges Trail produced and extended Clyde Bridges Trail developed. A guided walk of Glasgow’s Forth and Clyde Canal was successfully trialled as part of the Doors Open Days Festival.
- The Bridges to Schools activity was retired by ICE across the UK. Whilst this was a popular activity in it’s time, it was no longer in keeping with ICE education policies and has made way for many more exciting and up to date activities.
- The ICE Scotland STEM Ambassador of the Year Award was closely contested, with a record number of entrants, all demonstrating their commitment to helping young people.



Membership

Your Membership Recruitment Team (MRT) staff locally are membership manager (Scotland, NI and Europe) Donna Surgeoner and membership development officers Barbara Murray, (North of Scotland), Jen Hopkins (NI and RoI) and Sabine Maclean, (West of Scotland). Our focus is membership growth and provision of first class professional development guidance and support.

You will come into contact with the team when you need guidance on the many routes towards EngTech MICE, IEng MICE and CEng MICE, when joining as a student or graduate member, or when acting as a mentor, delegated engineer, supervising civil engineer, career appraisal assessor or professional reviewer.

We work with MRT colleagues across the UK, to offer membership guidance sessions online and in-person, which are attended by members and potential members locally, and indeed across the globe. In 2023 we continued our online guidance offer with employer, University and college visits and some guidance events moving back to in-person. You can find MRT's live and recorded guidance listed in the Careers and Learning area of the website.



Donna, Barbara, Jen and Sabine pictured after their summer team meeting in Edinburgh

Membership (cont'd)

| Grade/Event Numbers | End Oct 22 to end Dec 23 |
|--|--------------------------|
| New student members in Scotland | 755 |
| New graduate members in Scotland | 394 |
| New technician members in Scotland | 16 [#] |
| New IEng/CEng members in Scotland | 101 [#] |
| IPD completions in Scotland | 131 |
| SCEs/mentors/DEs met, briefed or updated | approx 1215 [*] |
| Membership guidance seminar attendees | approx 2187 [*] |
| Employer visit and membership surgery attendees across our area (NI/Scotland/Europe) | approx 2269 [*] |

includes new members in 2023, and some but not all Professional Review results for November 2023 session

* online sessions include delegates outwith Scotland/NI/Europe, individual delegates may attend several seminars/briefings

Engineering Landmark



This year saw a 203-year-old bridge connecting England and Scotland recognised as an International Historic Engineering Landmark.

The Union Chain Bridge, which crosses the River Tweed, is the oldest vehicle-carrying catenary bridge in the world. When it was built in 1820, it was the longest span bridge in the world, at 133 metres.

To celebrate the structure's reopening on July 6 after a £10.5m refurbishment, a plaque marking its landmark status was unveiled by the ICE, American and Japanese

Societies of Civil Engineers (ASCE, JSCE) and the Institution of Structural Engineers.

Former ICE Gold Medallist winner and ICE Fellow, Professor Roland Paxton, and the Friends of the Union Chain Bridge, of which he is patron, were instrumental in the refurbishment and preservation efforts.

Events

After the COVID restrictions of the last few years, there was an increase in in-person events, and also hybrid events that were held both in person and broadcast online. We know members appreciate the chance to network at these events so please get involved in the 2024 programme.

Branches across the country put on 72 events this year – with over 3,500 people attending and the online events attracted members from across the globe.

Topics, as always, were varied – Mining and the Railways, LGBTQ+ Awareness in Construction, Advanced Industrialised Methods for the Construction of Homes, An Asphalt Solution to a Concrete Problem and History of the Design and Construction of the Caledonian Canal to name but a view.



Events (cont'd)

There were also site visits – for example to the Clyde Waterfront and Renfrew Riverside development and Edinburgh's North Bridge refurbishment project as well as a civil engineering guided walk along the Water of Leith.

The year's most popular topic, going by number of attendees, was the Forth Road Bridge Major Maintenance Schemes event.

It examined how that, since 2017, the Bridge has served as a dedicated public transport corridor, carrying public access vehicles and allowing pedestrians and cyclists to cross the Forth Estuary – and this reduction in traffic has enabled construction maintenance works to be carried out at a lower cost than would have been possible previously.

It also looked at the ongoing works to replace the side tower elastomeric bearings, which have been in service since 1964, as well as strengthening of the side tower lateral thrust bearings that carry suspended truss wind loading.



Scottish Civil Engineering Awards

Eight projects were named as winners at the Scottish Civil Engineering Awards – widely recognised as the highest honour for engineering excellence in the built environment in Scotland.



Stockingfield Junction Bridge



Ravenscraig WCML Crossing

Amongst the winners were the Stockingfield Bridge – which won the 2022 ICE People’s Choice Award – and Union Terrace Gardens, a £28m refurbishment of the sunken Victorian gardens.

The awards are organised by ICE Scotland and CECA Scotland and are a unique opportunity to recognise the contribution that civil engineers make to shaping our everyday lives and the world around us.

Scottish Civil Engineering Awards (cont'd)

Full list of winners

INFRASTRUCTURE

Stockingfield Junction Bridge

Scottish Canals
Sustrans
Jacobs
Balfour Beatty

TRANSPORT

Trams to Newhaven

The City of Edinburgh Council
Sacyr Farrans Neopol
Turner & Townsend
Anturas
Morrison Energy Services

PLACEMAKING

Union Terrace Gardens

Aberdeen City Council
Balfour Beatty
Arup
LDA Design
Stallan-Brand

GEOTECHNICAL

M9 Winchburgh Junction

Winchburgh Developments Limited
SWECO
RJ McLeod
Thomson Gray
Ramboll
Tony Gee & Partners

RAIL

Ravenscraig WCML Crossing

North Lanarkshire Council
AECOM
Story Contracting
Network Rail

REMEDIATION

Dounreay

Cementation Plant ILW Store
GRAHAM
Dounreay Site Restoration Ltd

BEST SMALL PROJECT

A702 Westwater Bridge

Transport Scotland
BEAR Scotland

MARINE

Nigg East Quay Development

Global Energy Group
Farrans Construction
HBPW

Presidential visit

We were delighted that the 159th President of the Institution of Civil Engineers, Prof Anusha Shah, made her first presidential visit to us here in Scotland in November.

In a packed three days, Anusha delivered a guest lecture at the University of Edinburgh on the 'Role of Infrastructure in Building a Nature and People Positive World' before taking part in panel discussion.

The next day there was a site visit to the Levenmouth Rail scheme before a round table discussion with stakeholders on the 'Potential for further nature-based engineering solutions in Scotland'.

The visit ended with a visit to the Stockingfield Bridge in North Glasgow.



New qualifications

2023 saw 133 ICE members gaining new qualifications.

Most notably, Glasgow-based civil engineer Chris Landsburgh was named ICE'S first chartered infrastructure engineer (CIE).

Chris, decarbonisation director at infrastructure consulting firm AECOM, has been involved in the infrastructure sector for over 10 years and specialises in decarbonising infrastructure. He provides advice on net zero plans, whole life carbon accounting, and sustainability strategies for governments and businesses.

The CIE title is the first new title to be awarded since 1923 when the first chartered engineer titles were awarded. It was created to assure the public that the engineers who are delivering the infrastructure they use daily are current, credible, and competent.

The other new members gaining new membership grades and qualifications were:

Fellow (FICE)

Gary Allan
Alan Bowey
Mark Connelly
Gavin Dempsey
Serge Gomez
Ellen Halkon
Michael Laing
Kate McDougall
Christopher Phillips
Garry Porch
Steven Robertson
Ailsa Seymour
Philip Walker
Alan Williamson

Associate member (AMICE)

Ryan Hicks



New qualifications (cont'd)

Technician (ENG Tech)

Peter Conlin
Ross Dorward
Steven Dunbar
Cameron Fraser-Mackie
Kenneth Jackson
Martin Macdonald
James McFarlane
Alex McKendrick
Glen Meston
Ryan Murdoch
Ayden Nicol
Liam Porch
Blair Robertson
Erin Rodgers
Finlay Steer
Steven Wilson

Chartered engineer (CEng)

Olubunmi Adedire
Iain Alexander
David Alexander
Craig Allan
David Allen
Mona Arndt
David Bacon
Sean Baird
Christopher Beckett
Abhijit Bhoite
Alan Blacklaws
Liam Brannan
Callum Brownlee
Hugh Buchanan
Richard Campbell
Sean Carleton
Greg Cheyne
Aqib Chohan
Chung Yin Chung

Stephen Cooney
Patricia Costa
Cameron Coupar
Calum Cruickshank
Philip Cullen
David D'Arcy
Paul Dawson
Jon Dillon
Scott Easter
Thomas Findlay
Matthew Fleming
Alan Fraser
James Fraser
Alistair Graham
Ricky Hancock
Reem Hasson
Fraser Hogg
David Hughes
Kenny Hughes
Marc Hunter

New qualifications (cont'd)

Jenny Irvine
Amanda Kaas
Marcus Kay
Jack Kerr
Jonathan Knappett
Eftychia Koursari
Chris Landsburgh
James Lewis
Steven MacDonald
Malcolm MacLennan
Frazer Main
Sean McDade
Rory McFadden
Andrew McFarlane
Connor Mcglade
Ciaran McHugh
Ross Mckinstray
Ross McQue
Toby Millard
Oskars Misinskis

Indie Mitchell
Taciana Morais Franco Jackson
Paul Nelson
Tochukwu Obika
Dylan O'Reilly
Luke Paterson
Stuart Paterson
Thomas Pendreigh
Alan Philp
Miguel Piedra
Mhairi Porteous
James Porteous
James Scott
Sharlene Scott
Graeme Shepherd
Ryan Simmonette
Elliot Snaith
Mark Solley
Ioannis Sotiriou
Jordan Speirs

Adam Steele
Alexander Stylos
Andrew Taylor
Ross Taylor
Paul Triseliotis
Marta Walejewska
Morgan Wardlaw
Adam Wieczorek
Tiffany Wong
Amir Yousif

Incorporated engineer (IEng)

Graham Allen
Stuart Brady
Bethany Clark
Jamie Macarthur
John McCormack
Christopher O'Hare
Sandy Sieczkarek
Jagdip Summon

Whether you're interested in pursuing a professional qualification, becoming an Associate Member, or getting involved in the ICE's policy work – we'd love to hear from you.

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ICE Scotland