

Annual Review

2023





Image –

Chengdu Phoenix Mountain football stadium,
Structural Award winner 2023

© China Southwest Architectural Design
and Research Institute Co., Ltd, 2023

Welcome



Celebrating success

In my inaugural year as Chief Executive, it has been a privilege to witness the profound relevance and value that structural engineering brings to societies around the world.

2023 was another strong year and the Institution marked many successes. Our activities continue to be aligned with our commitment to lead on structural safety and climate action.

Trusted expertise

Our members were at the heart of our 2023 achievements, contributing their knowledge to prove the significance of structural engineering in an ever-changing world. This was evident in the expert guidance we produced and high-profile events we held to ensure our members understood the Building Safety Act's implications.

Similarly, when RAAC became a focus for media and the government in the UK around late August and early September, the technical expertise of our members was in demand. Our extensive knowledge was called upon to provide clear and accurate information.

CROSS-UK also played an active role in the RAAC response. Founded by IStructE and the Institution of Civil Engineers in 2005, with the Institution of Fire Engineers adding their support in 2021, its mission is to share knowledge to help create a safer built environment.

Influencing with impact: climate action

Our structural engineering community is influential. This was particularly evident in 2023 with our focus on climate action. We published *Circular economy and reuse: guidance for designers*, and we continued our advocacy of the Part Z amendment to UK Building Regulations, an industry proposal to regulate whole-life carbon and embodied carbon emissions in the construction sector.

Award-winning

We celebrated three accolades in 2023: Car park design guidance won the Special Jury Award in September from the British Parking Awards, and the Association Excellence Awards named us as Sustainability Champion of the Year 2023. I am also delighted that CROSS-UK's collaborative approach was recognised with a well-deserved win at the Excellence in Fire & Emergency Awards.

Engaging with members

Matthew Byatt, our 2023 President, and I have met many of our members, during our regional visits. The commitment and dedication of our members are inspirational. Maintaining and sustaining these are essential to me and my team. Our role is to support and enthuse members wherever they are in their membership journey, and that commitment remains steadfast.

As I look ahead to continued success for the Institution, I truly hope you enjoy this overview of a dynamic 2023.

Yasmin Becker

Chief Executive

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Image – 9 Millbank, Structural Award winner 2023

© St Edward Homes, 2023

About us

The Institution is the world's largest international membership organisation dedicated to structural engineering. We are a charity established by Royal Charter, accountable to our Board of Trustees and advised by an elected Council. We are proud of our heritage but have our sights firmly set on the future as we support structural engineers across the world.

Professional membership is a leading global benchmark of competence and technical excellence. Members undergo rigorous technical assessment. We support them in this through career-long development and learning.

We provide a voice for our members, promoting their contribution to society as innovative, creative problem solvers and the guardians of public safety. Structural engineers also have a crucial role to play in responding to the climate emergency.

We recognise both the breadth and depth of the needs of our members. We help engineers come together and share knowledge and ideas in a variety of ways, including face to face events, digital platforms and social media.

We are inclusive. No one with the aspirations and ability for a career in structural engineering should encounter any barriers. We constantly review our routes to membership to provide flexibility in the application and examinations process, offering more choice for all our candidates.

Our principles

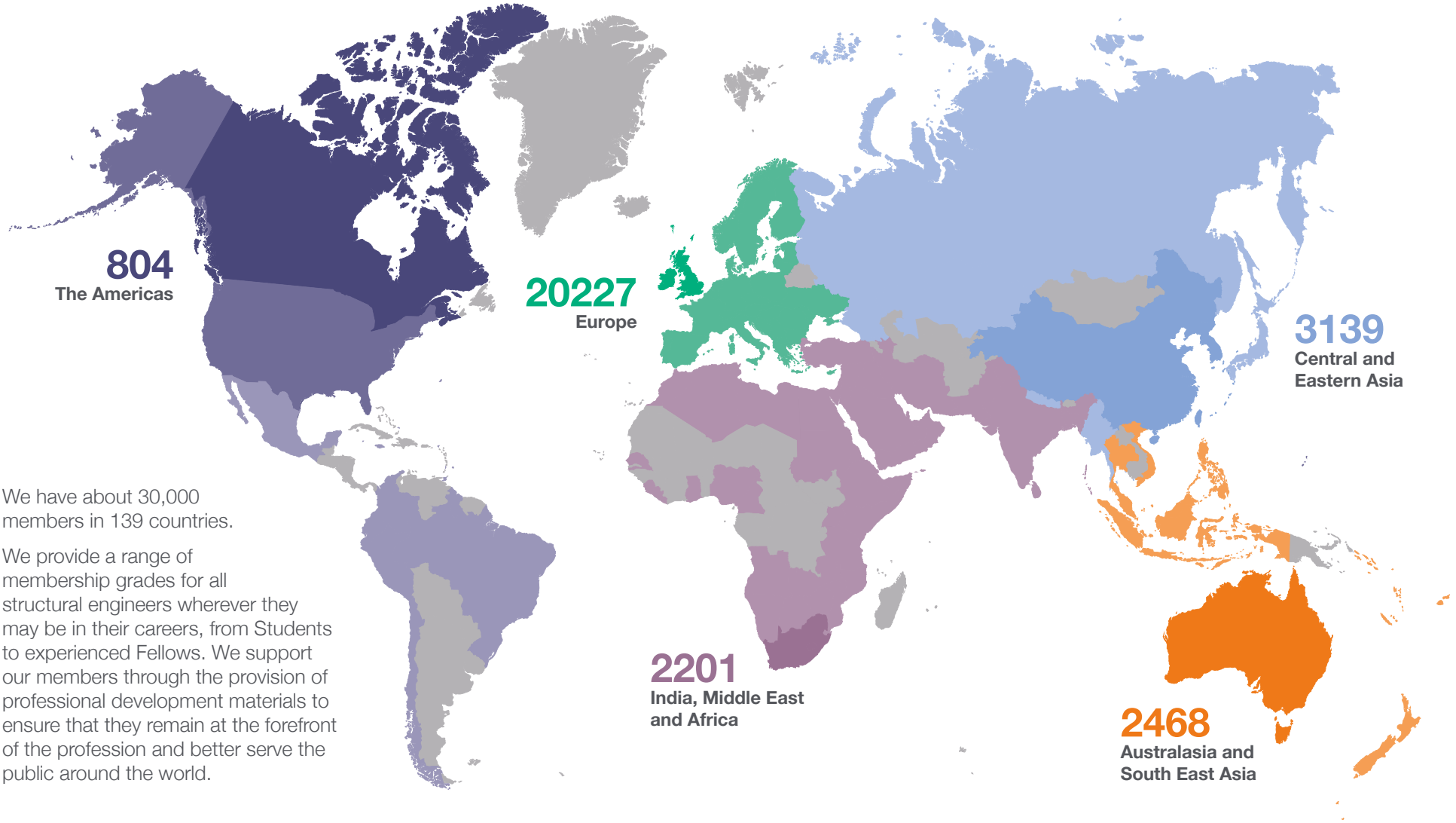
- We are committed to exemplary **professional standards**
- We **respect** our members
- We **champion** the profession
- We are passionate about a **sustainable** built environment for all
- We are **inclusive**
- We **recognise** and **celebrate** the most talented structural engineers
- We are **collaborative**
- We are truly **international**



Image –
Collège Hampaté Bâ,
Structural Award winner 2023
© Toby Pear, 2023

Worldwide membership

Countries where the Institution has most members are represented on this map in the darkest shades.



We have about 30,000 members in 139 countries.

We provide a range of membership grades for all structural engineers wherever they may be in their careers, from Students to experienced Fellows. We support our members through the provision of professional development materials to ensure that they remain at the forefront of the profession and better serve the public around the world.



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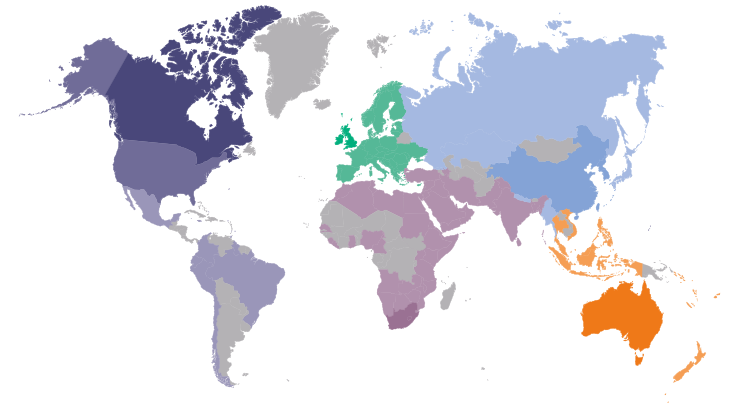
total members



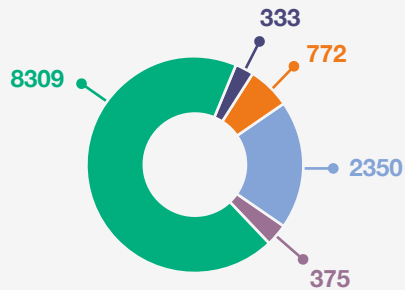
24312
male members*



4623
female members*
(15.69% of membership)



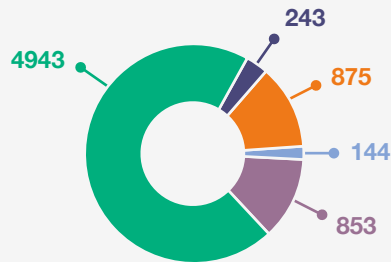
Member grade by region



12192

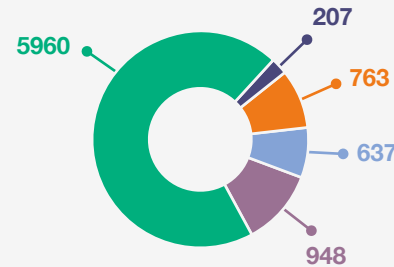
chartered members

(Fellows, Members and Associates)



7401

student members



8724

graduate members

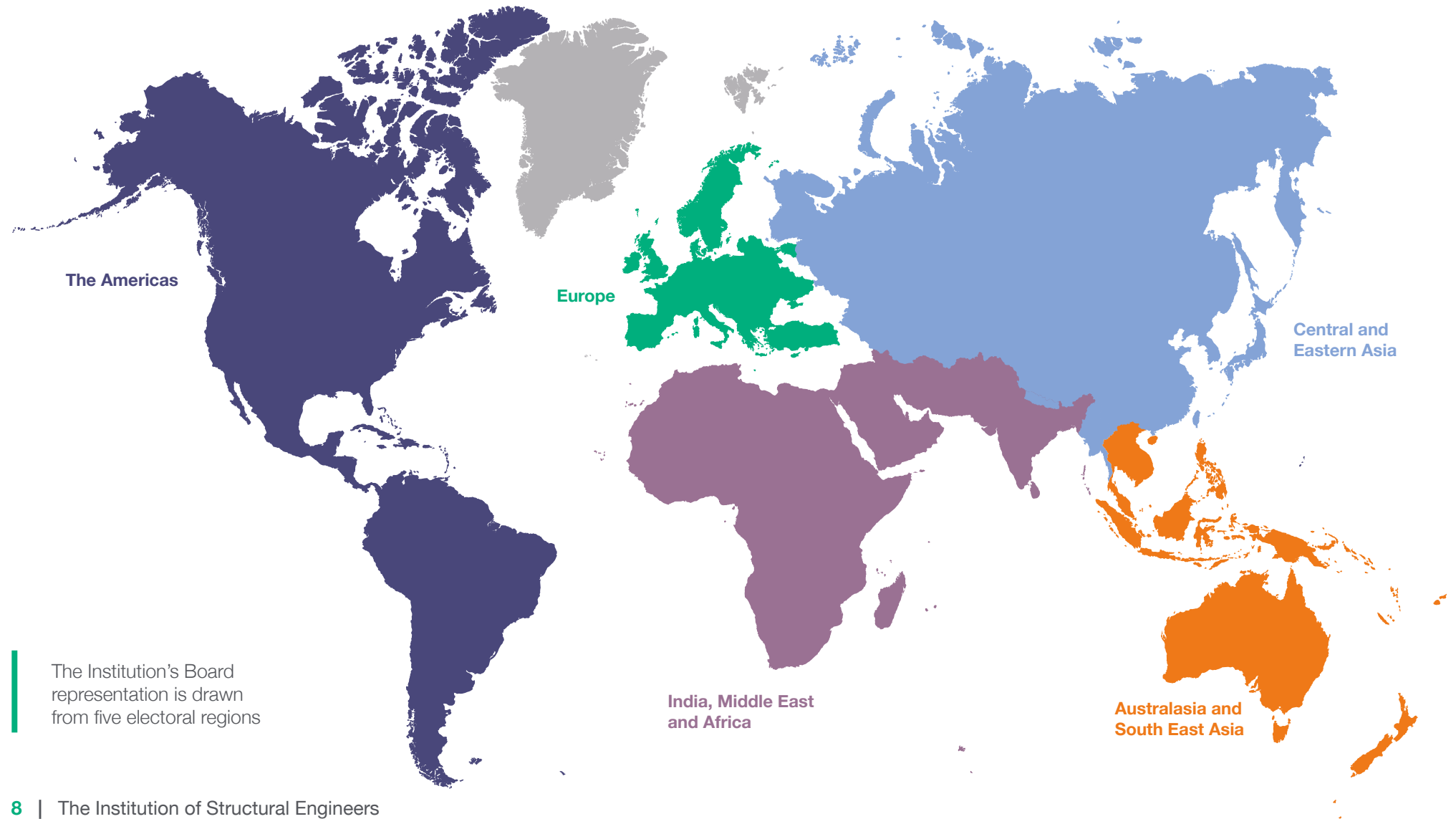


1142

other members

This report counts active memberships as of 1st January 2024. It counts all Grades. * Not all members have declared their gender.


An international Institution




The Institution's Board representation is drawn from five electoral regions


Trustee Board Members 2023

Europe


Peter Terrell 


Keith Williams 


Tendayi Munyebvu 

Matt Byatt 

Ed Clark 

Elisabeth Marlow 


Jane Entwistle 

Kate Leighton 


Australasia | SE Asia

Brian Uy 

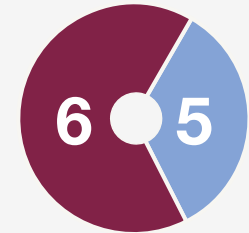
The Americas

Tanya de Hoog 

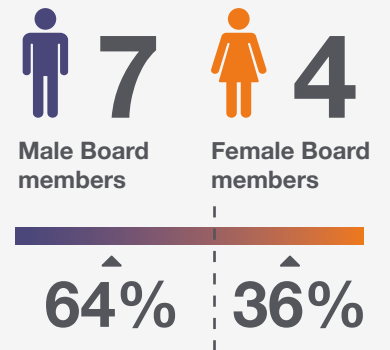
India | Middle East | Africa

Mohamad Al-Dah 

IStructE Board statistics



- Board members based in the UK
- Board members based outside the UK



Building Safety Act update

The Building Safety Act:

“True and lasting change will require a universal shift in culture” Dame Judith Hackitt



Background

The Building Safety Act (BSA) received Royal Assent on 28 April 2022. Its origins stemmed from the tragic Grenfell Tower fire in June 2017. The government duly launched an official inquiry, led by Dame Judith Hackitt, whose impactful Independent Review of Building Regulations and Fire Safety: Final report was published in May 2018.

Dame Hackitt’s report led to major policy reforms included in the BSA’s legislation, covering England and Wales. The Act aims to promote greater safety, quality and transparency of the building process, and accountability of the professionals involved.

The Act has been called the most important piece of construction legislation in a generation. It has immense relevance in the built environment, to change culture and regulation to embed safety in construction. The Institution has devoted significant resource in 2023 in response to the Act.

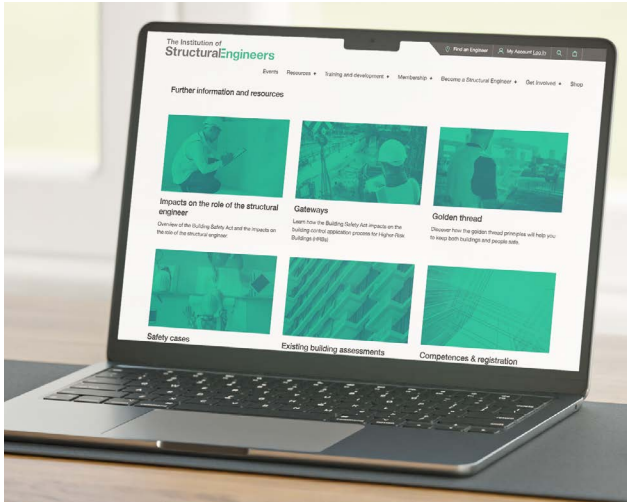
As such, we have focussed our technical and policy expertise on rigorous and trusted advice, guidance, and thought leadership about this important legislation.

Our work is split into four streams: raising general awareness, guidance for members, demonstrating competence and liaison with external bodies to ensure a unified approach and successful application of The Act.

Aspect	Action	Why
1	Develop and publish guidance on key aspects of the building Safety Act	To effectively communicate information/guidance for members to enable them to comply with their duties
2	Set an expected standard for UK structural engineers and Building Control professionals	To guide professionals in fulfilling their responsibilities relating to the Building Safety Act as there are no set standards in new duties
3	Identify, develop, and publish guidance on key skills and competences needed for structural engineers	To enable the Institution’s members to perform their duties under the Building Safety Act and demonstrate competence
4	Identify, produce and publish guidance for structural engineers on structural fire safety	To ensure structural engineers understand the new technical requirements relating to fire safety
5	Collaborate with external bodies and PEI’s to establish consistency across industry Identify where boundaries lie between disciplines	To ensure compatibility between external groups working within the building sector To clarify expectations and limits to the scope of structural engineers’ input into the building process

Raising awareness

Our dedicated BSA webpage was created in 2022, serving as the central place for BSA guidance. Throughout 2023, we ensured it was updated so that our members were informed about the latest developments.



We have held a conference and delivered well attended webinars, publicised in our Newsletter and *The Structural Engineer* magazine and presented to regions as part of a multiple channel offering.

We are proud and honoured that Dame Judith Hackitt gave a keynote address to members at our BSA conference in March 2023. In her address, Dame Hackitt thanked IStructE for extending the Collaborative Reporting for Safer Structures UK reporting system to include fire safety, as well as structural issues. CROSS' remit to share knowledge to help create a safer built environment is essential for a well-functioning structural safety and fire regime.

Our BSA resources

BSA website: <https://www.istructe.org/resources/building-safety-act/>

- **The Building Safety Act impact on small practices** <https://www.istructe.org/IStructE/media/Public/Resources/BSA-sme-Impacts-02PH.pdf>
- **The Building Safety Act. Impacts on the role of the structural engineer. The Act – overview** <https://www.istructe.org/IStructE/media/Public/Resources/BSA-Impacts-04-PH.pdf>

January 2023 edition of The Structural Engineer: “Building Safety Act: what does it mean for structural design engineers?”
[https://www.istructe.org/journal/volumes/volume-101-\(2023\)/issue-1/building-safety-act-what-does-it-mean/](https://www.istructe.org/journal/volumes/volume-101-(2023)/issue-1/building-safety-act-what-does-it-mean/)

13 January 2023: Webinar with law firm Birketts titled “Building Safety Act - an overview for structural engineers”
<https://www.istructe.org/resources/guidance/building-safety-act-an-overview-for-structural-eng/#:~:text=The%20Building%20Safety%20Act%20puts,those%20who%20threaten%20their%20safety>

February edition of The Structural Engineer: Liability & Insurance by Birketts LLP
[https://www.istructe.org/journal/volumes/volume-101-\(2023\)/issue-2/the-building-safety-act-liability-and-insurance/](https://www.istructe.org/journal/volumes/volume-101-(2023)/issue-2/the-building-safety-act-liability-and-insurance/)

28 March 2023: Building Safety Conference with keynote address from Dame Judith Hackitt
<https://www.istructe.org/resources/guidance/building-safety-act-conference/>

July 2023: Interactive BSA surgery with legal experts from Ashurst

October 2023: IStructE and ICE announced an agreement to operate a joint competency register for structural designers on HRBs
<https://www.newcivilengineer.com/ice/tall-building-competence-register-to-be-set-up-21-11-2023/>

November 2023: BSA webinar event with law firm Bevan Brittan about the BSA's secondary legislation
<https://www.istructe.org/resources/training/building-safety-act-secondary-legislation/>

Guidance to members

The scope of the BSA is wide ranging, affecting all those producing building regulation designs in England & Wales. We have produced guidance, freely available on the website covering all aspects of compliance, targeted at the two sections of our member profile; general design work, particularly that carried out by SMEs and those working on Higher Risk Buildings (HRBs), as defined by the Act.

For SMEs we have provided guidance on how the BSA affects their work, their new duties under the BSA and additional liabilities.

For those working on HRBs we have provided guidance on the requirements for safety cases, the gateway building application process and “golden thread” building information. We are working with industry to provide additional detailed guidance in these areas for issue in 2024.

Building and demonstrating competence

The BSA places competence at the core of its safety reforms. Our work has focused on what competences are required in light of the Grenfell tragedy for those working on general design work and those on HRBs. These have been clarified in guidance. In the future there will be an expectation for all structural engineers working on buildings to understand how their work relates to the overall fire safety of the building. The Institution has developed a CPD course on the fire safety requirements of the BSA, scheduled for 2024.

The Institution is also working with ICE on a register for those working on HRBs to demonstrate their competence.



Working with industry

One of Dame Judith's statements in her report was that industry must work together and not in silos. We are working closely with industry to ensure our guidance is practical, compliant and compatible. The Technical Secretariat have convened task groups from industry to test guidance. We have established close links with industry through the CIC and BSAP and through direct links with other PEIs to coordinate guidance on the BSA. We are also in contact with the Building Safety Regulator to ensure we understand their aspirations.

Work in 2024

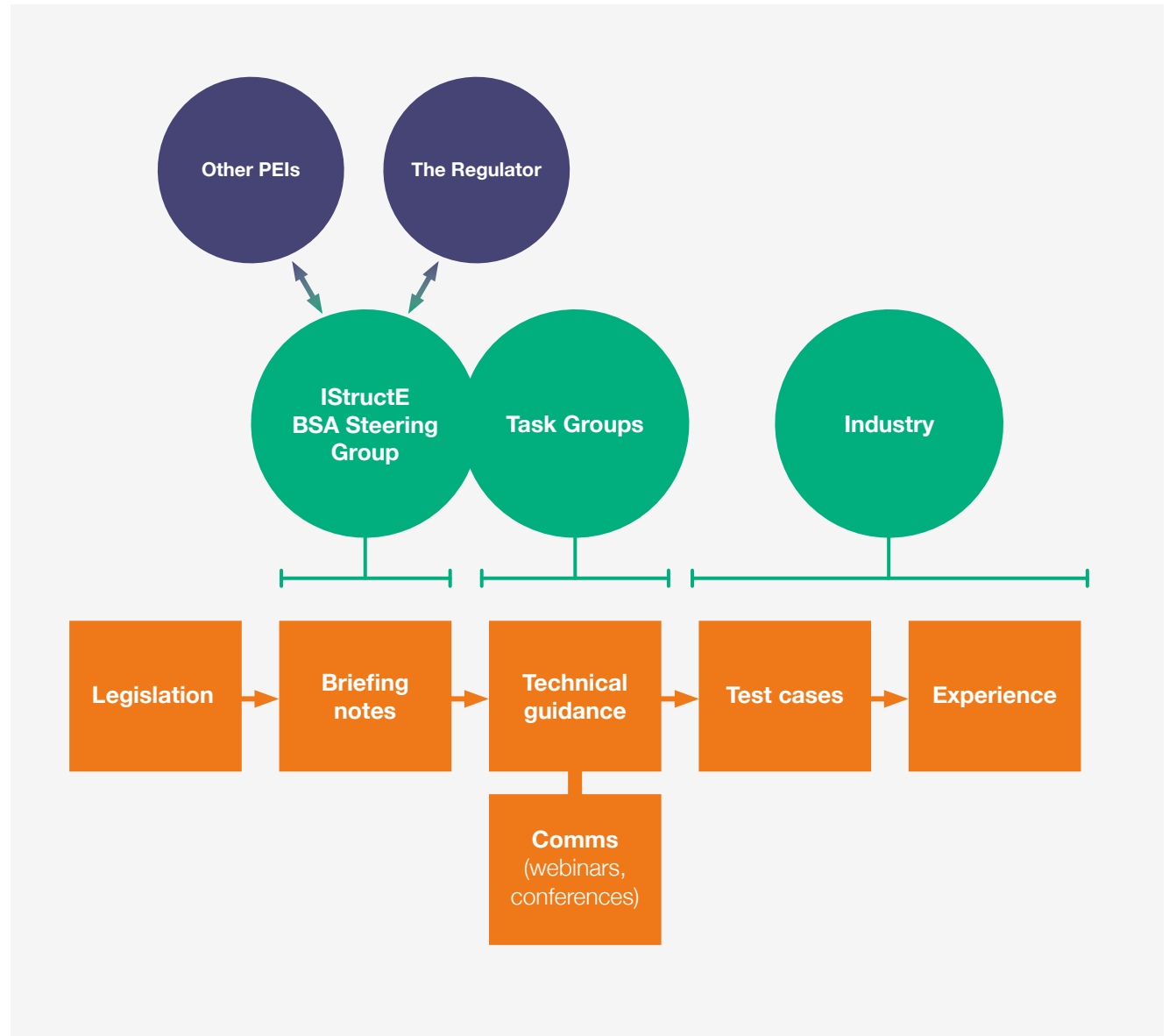
We will continue our work in 2024 and to complete our main BSA program by the Autumn. Activities include:

Events

- The fire design course *Structural fire engineering and the Building Safety Act*, 27 scheduled for 27 February and for 25 September 2024
- The safety case workshop *The Safety Case Report* webinar, 29 February
- The Building Safety Act: *What have we learnt so far?* webinar, 21 May

Further guidance

- Compendium of HRB structural typologies
- Drafting a safety case
- Recommendations for gateway submissions
- Recommendations for compiling the golden thread
- Safety Assessment Tool for non-compliant structures



Competence and excellence

The Institution's strategy is founded on competence, community and inclusivity – principles that are at the core of everything we do.

The Institution has a long tradition of setting the highest standards in terms of educational, training and professional assessment requirements. We review and update these standards on a regular basis to ensure that our Professional Review Interview and examinations remain challenging and relevant to the profession. In 2023 we updated our Professional Review Interview and Examination requirements to reflect changes within the profession and the increased focus on sustainability.

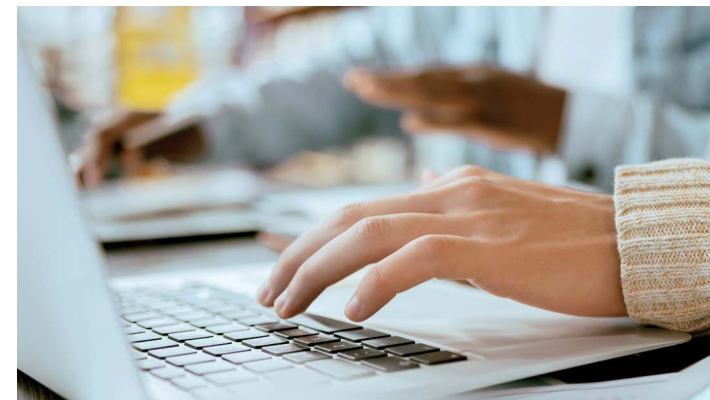
We also reviewed inclusivity in our routes to membership, along with the need to recognise competence when it has been gained. In 2023 we launched a route for Graduate members who have satisfied the Chartered academic base and Professional Review Interview to become Associates (AIStructE) of the Institution. Associates are eligible to register with the Engineering Council as Chartered Engineers (CEng). The new Associate route is an opportunity for competent Graduates to become professionally qualified before progressing to the Chartered Membership Examination and the Member (MIStructE) grade.

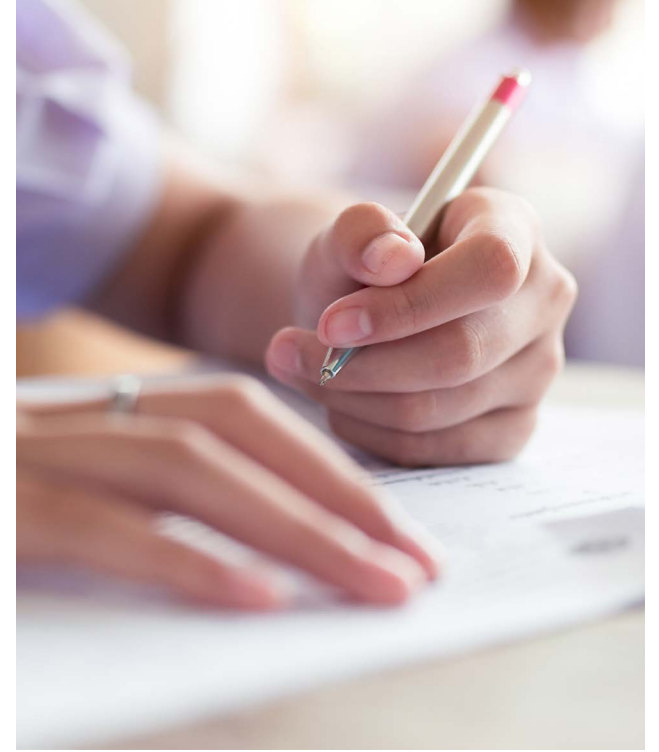
The route recognises the competence of people that have passed the Chartered Professional Review Interview. It also increases accessibility and provides a

grade for people working in parts of the profession that are not assessed within the Examination.

The Institution acknowledges that members may choose to specialise in their careers. We have worked with other organisations to develop registers to recognise these specialist skills eg Conservation Accreditation Register of Engineers (CARE) and Expert Witness Register. In 2023 we gained a licence to register our members with the Society for the Environment as Chartered Environmentalists (CEnv). We expect the first members to register in early 2024.

We lead in best practice/industry standards and collaborate with other industry experts and national/international organisations to share the latest developments in the profession. In 2023, the Institution was heavily involved in the development of guidance around the UK Building Safety Act. This guidance will play an important part in raising standards both in the UK and throughout the world. We have also worked, alongside the ICE, to develop standards and an assessment methodology to allow suitably experienced members to demonstrate their competence in Higher-Risk Buildings (HRBs). Members who demonstrate this competence will be eligible to join the Engineering Council HRB register, to be launched in 2024.





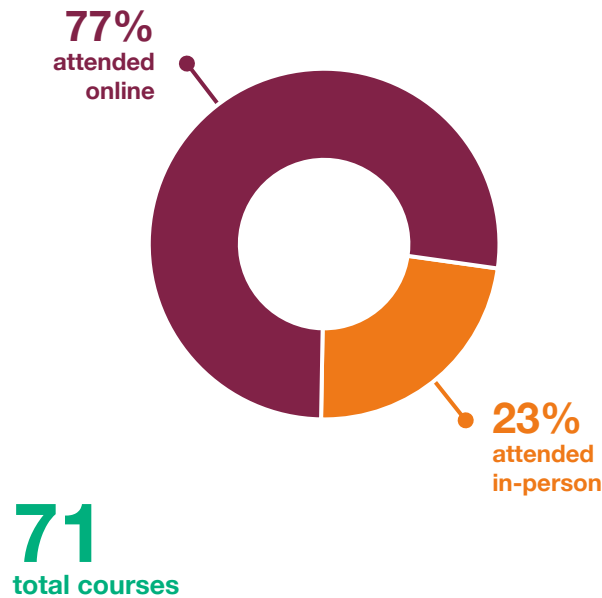
Convenient flexible learning choices

Keeping on top of technical and professional developments is essential for any professional. The Institution offers many resources that are useful to both members and non-members. They are valuable tools for structural engineers, but also to other professionals working in the construction sector, teachers looking to inspire future generations, researchers, or those that are just starting out in the construction industry.



Courses

Our CPD course programme offers a range of training courses to support practitioners at every stage of their professional career. In 2023, we ran 71 public courses spanning a diverse range of technical and business practice topics. A further 23 courses were delivered directly to organisations as in-house training. New additions to the programme in 2023 included *Influencing and leadership skills*, *digital sketching*, and *Structural engineering appreciation for non-structural engineers*.



Events

Members have access to a broad programme of events including conferences, technical lectures and webinars. Our events provide opportunities for members to develop their knowledge, network with peers and gain insights from across the built environment. Regional Groups also have programmes tailored to local audiences and their needs.

In 2023 our Events team planned and delivered 51 events with a total of 9835 attendees. The Institution as a whole ran 339 events.



Library

The Institution's Library houses one of the UK's finest printed structural engineering literature collections. In 2023, Library staff responded to almost 900 literature-based enquiries - with books, standards and reports available to loan in-person or by post. 85 new books and standards were purchased for the collection.

E-library

The Library continues to focus on providing members with access to digital material. 53 new e-books were purchased, taking the total to almost 600 by the end of the year. The E-library had its strongest year to date, with the collection being accessed more than 28,500 times.

E-library



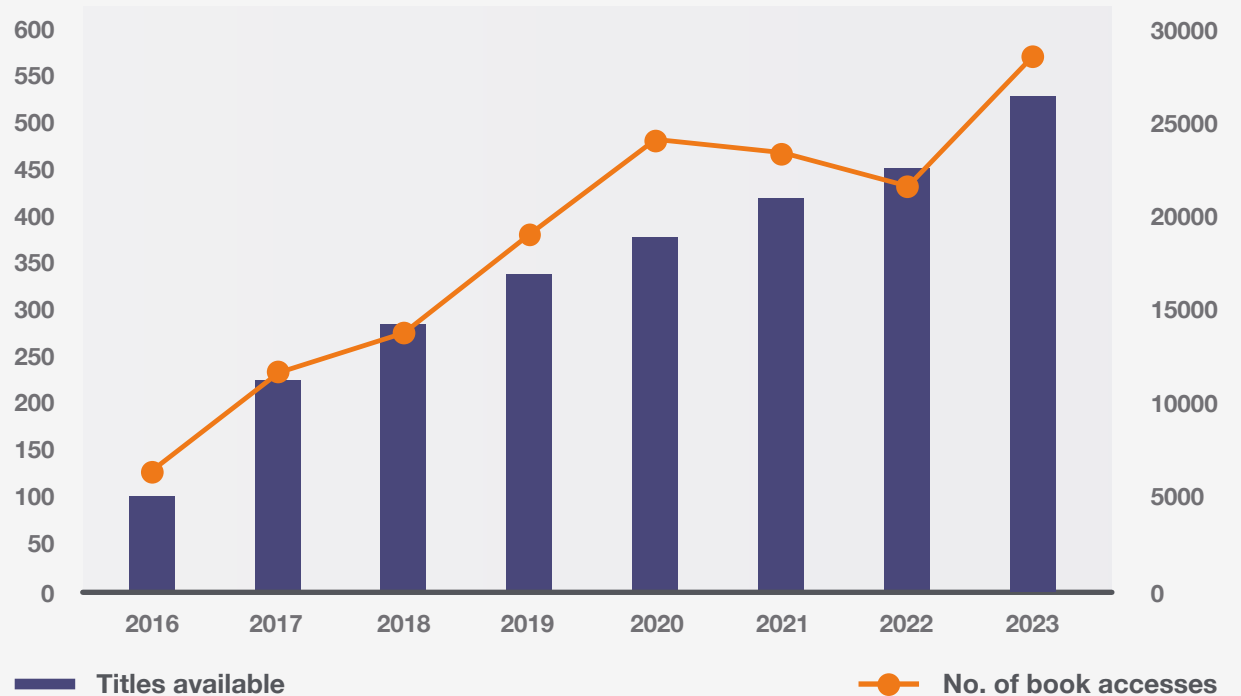
574

titles available in 2023



28533

book accesses in 2023





Publications

We produce a range of quality publications catering for all career stages and covering generalist and specialist structural engineering disciplines:

The Structural Engineer

Our flagship publication is published 11 times a year, featuring peer-reviewed technical and professional guidance, and case studies from a fascinating range of structural engineering projects. 2023 saw the magazine adopt a themed approach, with each issue exploring a particular topic, from steel reuse to regenerative design.



Structures

This peer-reviewed journal received over 7,000 submissions in 2023, a 43% increase on the previous year. There were over 1,400,000 downloads of *Structures* articles, up from 1,000,000 in 2022, as the journal's reputation grows ever stronger within the global structural engineering community. *Structures* further cemented its reputation and influence, rising three places in the Journal Citation Reports 'Civil Engineering' rankings for 2023 to enter the top quartile of journals in the field for the first time.

Manuals and guides

Our portfolio now comprises more than 40 books. Five new titles were published in 2023:

- *Car park design*
- *Circular economy and reuse*
- *Structural robustness and disproportionate collapse in buildings*
- *Structural use of fibre polymer composites*
- *Subsidence*



Focus on thought leadership

In 2023, the Institution added a third publication type to its existing 'manuals' (prescriptive advice on how to use codes/standards) and 'guides' (authoritative guidance on a specific aspect of structural engineering). 'Thought leadership' titles will showcase the considered views of recognised expert authors - offering them a platform to share their knowledge and experience (often in a cutting-edge or niche space) with a wider audience. Readers gain insights into topics that are perhaps emerging or peripheral, but are likely to have profound impact in the future. With the Institution's first thought leadership title, *The regenerative structural engineer*, Oliver Broadbent and James Norman advocate for designers to think and design differently - to learn from living systems - in an attempt to shift from a mindset of "doing less harm" to one of "doing more good".



The Institution is already planning to publish more thought leadership titles (including *The future of structural design* which will be co-authored by James Norman and discuss the wider implementation of a risk-based design approach in the context of the climate emergency) and welcomes suggestions from potential authors. Contact: publications@istructe.org



"The authors have done the general reader a great service by digesting a huge amount of material - particularly on systems thinking - and synthesising it into a coherent case. The book is illustrated with excellent case studies where structural engineers have played a pivotal role in aiming higher in the system to create new business enterprises. I commend the authors for engaging with this challenge so effectively."

Michael Pawlyn – Exploration Architecture, and co-author of *Flourish*

"I especially appreciated the structure used to organise the book (the bookshelf metaphor), it made it very tangible and clear... and the case studies are fabulous."

Lindsay Baker – CEO, International Living Future Institute

"*The regenerative structural engineer* is a strong call to action for all built environment professionals to implement systems thinking; from changing their mindsets, thinking deeply about the source of materials to reimagining design such that we not only live in harmony with nature but regenerate and revive it for future generations."

Prof. Anusha Shah – President, ICE



Award winners 2023

The Structural Awards celebrate the very best projects from the global structural engineering community. 35 inspiring global projects were shortlisted, and the winners were announced at a glittering ceremony in London in November 2023.

The judging panel considered the key attributes that exemplify great engineering, and the 11 winning projects are an outstanding showcase of usefulness, collaboration, ingenuity of design, advocacy of the profession and commitment to sustainability and minimising embodied carbon.

Structural Award winners 2023

Company	Project	Country	Awarded for
StructureCraft	Nancy Pauw Bridge	Canada	Supreme Award for Structural Engineering Excellence
Arup	HAUT	Netherlands	The development of a novel timber-concrete-composite solution in high-rise residential design
Atelier One	ABBA Arena	UK	Celebrating modular, demountable timber at scale
Beca	8 Willis Street	New Zealand	Innovation in seismic retrofit for improved resilience
Buro Happold	Battersea Power Station	UK	Raising the standard for retrofit and façade retention at scale
China Railway SIYUAN Survey and Design Group Co., Ltd.	Youshui Bridge	China	Pushing the boundaries of asymmetric long-span bridge design
China Southwest Architectural Design and Research Institute Co. Ltd	Chengdu Phoenix Mountain Football Stadium	China	Innovation in the design and testing of cable-dome structures
Heyne Tillett Steel	Holbein Gardens	UK	Advancing industry knowledge of steel reuse in buildings
MHA Structural Design	Collège Hampaté Bâ	Niger	Using sustainable local materials and enabling positive social impact
Price & Myers	Cody Dock Rolling Bridge	UK	The bold design of a transformative structure
StructureCraft	Nancy Pauw Bridge	Canada	Engineering artistry in the creation of a light touch, low profile timber bridge
Walsh	9 Millbank	UK	Diligence and rigour in maximising reuse

People and Papers Award winners 2023

Award	Name	Award	Name
Gold Medal	Albert Williamson-Taylor	Oscar Faber Award	Simon Fryer
Clancy Prize	Nada Elkady, Yasser Eljajeh, Kevin Gilsenan and Levingshan Augusthus Nelson		Mark Browne and John Hare (diploma)
Derrington Construction Award	Colin George, Mark Hatcher, Chris Law and Ionuț Păunescu		Hélène Huang, Bernard Vaudeville and Rubis Trinh (diploma)
Excellence in Structural Engineering Education Award	Seyed Alireza Behnejad Aled Wyn Davies (commendation) Tim Wilkinson and Daniel Da Costa (commendation)	Service Award	Andrew James Hallum
Guthrie Brown Award	Smail Kechidi	Service Award	Anne Dennis
Husband Prize	Francesco Presta, Joe Turner and Kashif Rasheed	Service Award	Daniel Cross Wright
Keith Eaton International Award	Marelize Visser	Service Award	Douglas Kay
Kenneth Severn Award	Steven Birch Charlotte Kenyon (commendation) Mohamed Elzeadani (commendation)	Service Award	John Stella
Lewis Kent	Andrew Carrick Smith	Service Award	Steven Pountney
Lewis Kent	Fergus Adrian Shaw	Service Award	William Crowe
Lewis Kent	Penelope Laura Gowler	Service Award	Zhengxia Cong
Lewis Kent	Victoria Claire Martin	Sir Arnold Waters Medal	Stewart Tennant
Lifetime Achievement Award	Gordon Harris	<i>Structures</i> Best Research Paper Prize	Van Hung Nguyen, Jun Yu and Kang Hai Tan
Lifetime Achievement Award	Michael Hooper		Hong-hui Qi, Yong Du, Jian Jiang and Guo-qiang Li
Murray Buxton Award	Cristobal Correa	<i>Structures</i> Best Research into Practice Paper Prize	Julie Devènes, Jan Brütting, Célia Küpfer, Maléna Bastien-Masse and Corentin Fivet
	Rachel Cooper, Jack Firth and Simon Nevill (diploma)	Young Structural Engineering Professional Award	Matthew James Penellum Sharjeel Larik
	Fergus McCormick, Tim Sullivan, Iain Hill, Paul Eddleston, Mick Slack and Rajan Mistry (diploma)	President's Award 2022	William Harvey

Structural Safety and CROSS



CROSS is the unique, confidential safety reporting scheme jointly owned by the Institution of Structural Engineers and the Institution of Civil Engineers.

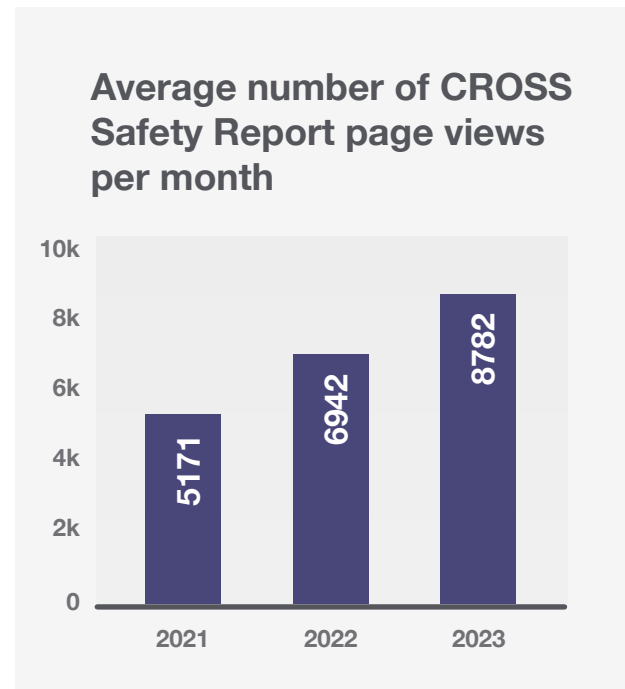
As part of the Government's response to the Grenfell tragedy, the Building Safety Regulator (BSR) is required to appoint a body to operate an independent system for the voluntary reporting of building safety occurrences, so that lessons learned can be shared across the industry. The Building Safety Act mandates this but – significantly - prevents the BSR from operating it themselves.

In early 2023, CROSS was appointed by the BSR to operate the formal Voluntary Occurrence Reporting System for structural and fire safety that is required under the Building Safety Act.

The success of CROSS' recent expansion into the fire sector was recognised this year when CROSS won the Collaboration of the Year Award at the Excellence in Fire & Emergency Awards. Organised by FIRE Magazine, CROSS were also finalists in two other categories: International Best Practice and Resilience & Learning from Major Incidents.



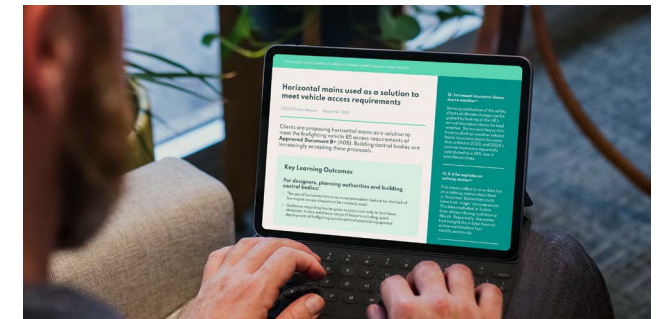
Awareness of CROSS jumped significantly in 2023, partly due to our long-term involvement in bringing the issue of RAAC to the industry (and later the general public's attention). Our 2019 Safety Alert on RAAC, our RAAC theme page, and the IStructE RAAC guidance were sources of clear, technical information on the subject. This contributed to a 33% increase in visitors to the CROSS website from 2022 to 2023, and a 27% increase in views of Safety Reports.



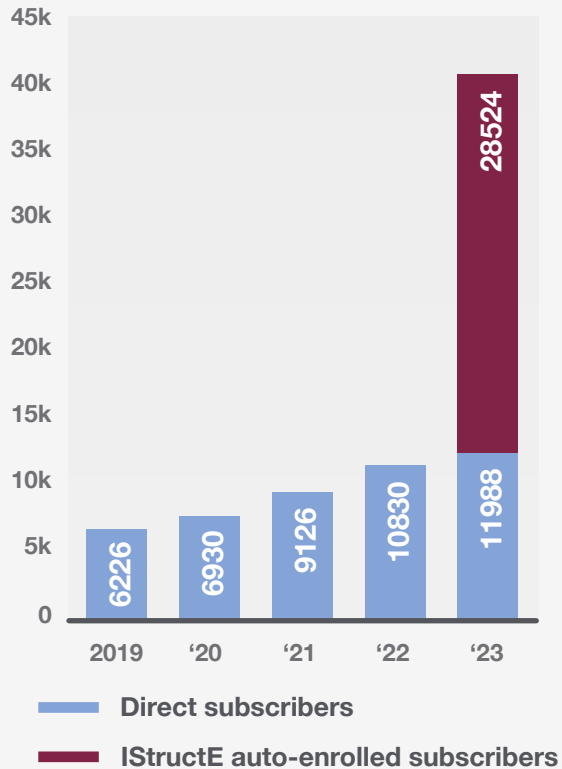
During the year, CROSS undertook 35 speaking engagements with a range of professional institutions, industry bodies and private companies. These were a mix of events, webinars, and exhibitions and included our first-ever podcast, an in-depth edition of the New Civil Engineer's Collective in October that solely focused on the scheme.

The CROSS team wrote a high volume of articles in 2023, including a monthly column in International Fire Protection Magazine, the National Home Improvement Council's newsletter, and regular contributions to Building Engineer. A CROSS report also regularly features in *The Structural Engineer* magazine.

CROSS-UK produces quarterly newsletters distributed to its subscribers. The long-term project to automatically enrol circa 28,000 Institution members, on an opt-out basis, was launched in 2023 and effectively increased the distribution of our safety information by a factor of 3.5.



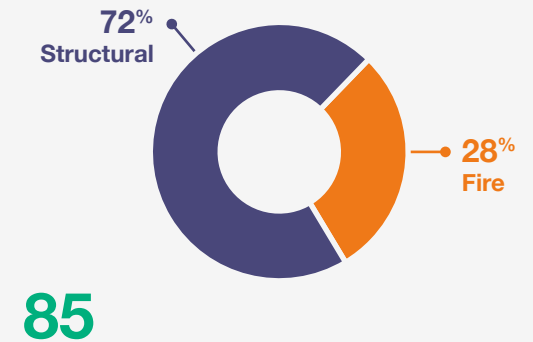
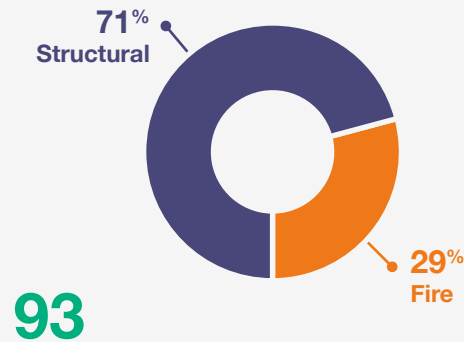
Growth in Subscribers to a CROSS Newsletter (all regions)



At the start of the year, CROSS produced four videos outlining what CROSS does; its background and purpose; the benefits of reporting; and a step-by-step guide on submitting a report. We encourage those working within the built environment to watch these videos, and if you are aware of a safety issue, to submit a confidential report via the CROSS website.



CROSS reports received and published during 2023 (all regions)



Sustainability: Shaping the future



UK Net Zero Carbon Buildings Standard

The Institution continues to play a pivotal role in the development of the world's first 1.5°-aligned Standard for buildings, setting out the carbon performance and technical reporting requirements to be able to declare a building to be Net Zero aligned. The impact of this project comes from the Standard's potential to enable investors, funders, insurers and developers to differentiate between buildings which are 'business-as-usual' and those which are truly aligned with the UK's legal Net Zero commitments. We hope that by backing the project's development, we will help the industry to decarbonise. The Standard will do this by creating incentives for project funders, clients and designers, to prioritise low-carbon design - including the reuse of existing buildings, and the use of low-carbon materials. We have been involved with the Standard since the project's inception, with involvement across the project's governance, technical steering, embodied carbon decision-making, and the technical authorship of the document itself. We look forward to seeing the launch of the Standard in 2024.



UK Net Zero Carbon Buildings Standard

Embodied carbon regulation

Ultimately, we recognise that embodied carbon (the emissions due to the use of construction materials) will need to be regulated if every construction project is to decarbonise in line with the world's Net Zero requirements. Throughout 2023, the Institution continued to advocate for the regulation of embodied carbon regulation around the world, exemplified by our policy work in the UK with the Part Z proposed amendment to the Building Regulations. We supported members of the House of Lords with the development of an amendment to the Levelling Up Bill that called for such regulation, leading to further debate of the issue, and supporting the need for research by the civil service into its feasibility. We also continue to coordinate with other built environment institutions to create a coherent ask of government on this topic.



Circular economy

We were proud to launch one of the first guide books in the world to provide detailed guidance around how structural engineers can implement circular economy thinking in their day-to-day work. This topic is crucial to helping structural engineers understand how to not only reduce emissions, but also reduce our industry's resource use, and thus reduce our wider environmental impacts such as biodiversity loss and pollution. We launched our new guide *Circular economy and reuse: guidance for designers* over the summer, which outlines not just the principles of circular economy design, but the technical methods that designers can follow to implement them on their projects. The guide outlines how to reuse buildings, how to design with reclaimed materials, and how to design to enable future reuse of today's construction – supporting all of this through exemplar case studies.

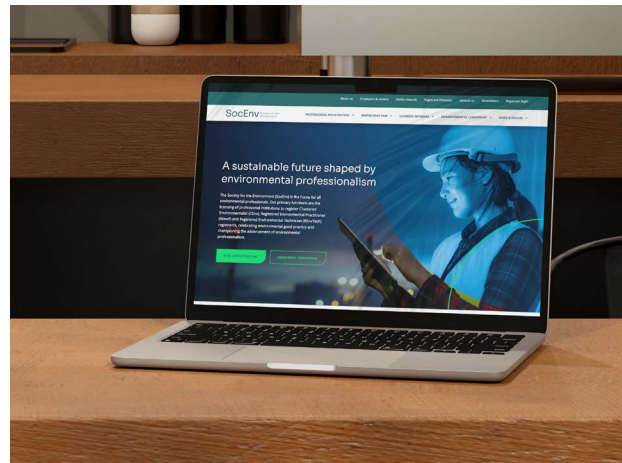


Chartered Environmentalist status

In late 2023, the Institution was granted a registration licence by the Society for the Environment, enabling us to register appropriately qualified members as Chartered Environmentalists. The registration exists to help differentiate professional environmentalists from their peers, and this new licence helps identify the crucial role structural engineers play in tackling the environmental challenges the world faces. We would like to encourage appropriately experienced members to apply for registration through our website.



SocEnv Society for the Environment



COP28

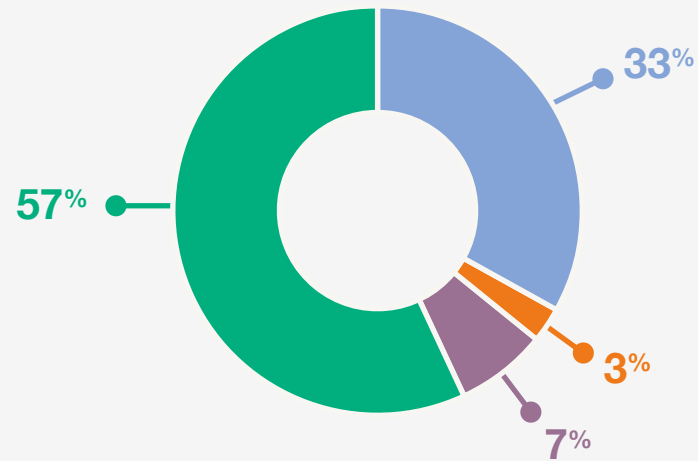
Finally, the end of 2023 saw the world's governments come together in Dubai to discuss their responses to the climate emergency, at the 28th session of the Conference of the Parties to the United Nations Framework Convention on Climate Change (UNFCCC), known informally as "COP28". The Institution hosted a number of COP28 fringe events in Dubai during the conference, capitalising on local momentum and enthusiasm for the topic to provide training around the reuse of existing buildings, and the calculation and reduction of embodied carbon. Our United Arab Emirates Regional Group also helped to promote best practice by facilitating discussions with a number of UAE organisations during COP28.



Financial highlights 2023¹

Income 2023

Most of our income comes from membership subscriptions and trading subsidiaries. In 2023, these sources accounted for 90% of all total revenue. This represents a 1% increase on 2022.

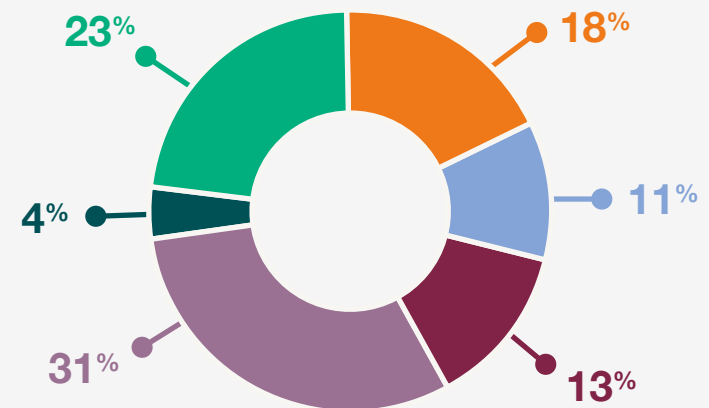


Key

- Trading companies
- Membership subscriptions
- Learning, development and examinations
- Other activities and donations

Expenditure 2023

The provision of membership, learning, development and examinations was the largest area of expenditure in 2023, accounting for 31% of total spend. This represents a 1% increase on 2022.



Key

- Membership learning, development & examinations
- Trading companies
- Digital transformation and IT
- Other staff and employment costs
- Other operating costs
- Depreciation

¹ Data drawn from final 2023 management accounts. The full audited and adopted accounts of the Institution are available on [istructe.org](https://www.istructe.org)



Image –

Interior of ABBA Arena, Structural Awards winner 2023

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