

Annual Report 2019

CIBSE Annual report &
financial statements



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Project of the Year – International, EY Centre, Sydney, Mirvac

Our vision

Better performing buildings for society and the environment.

Our mission

To advance and promote the art, science and practice of building services engineering, to invest in education and research, and to support our community of built environment professionals in their pursuit of excellence.

Our values

We lead

We are a trusted authority on the present and future challenges facing the built environment, we use our collective expertise and influence to champion the best and most innovative solutions with rigour and integrity.

We empower

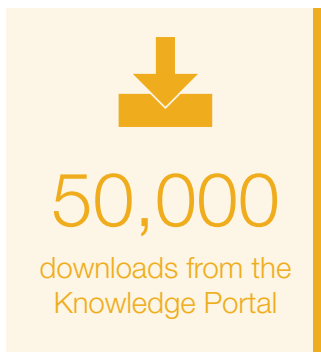
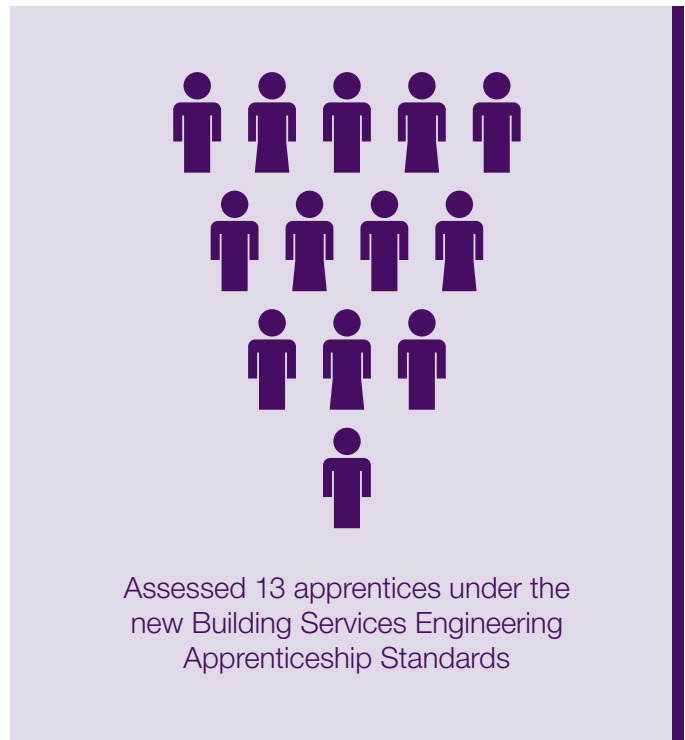
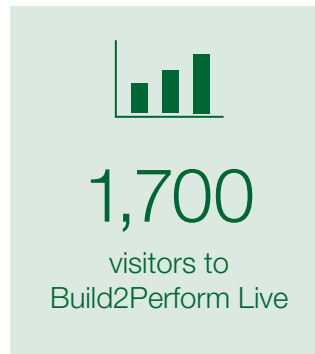
We provide people with knowledge, training and networking and a pathway to professional registration so that their work will have a meaningful impact.

We champion

We are vocal and visible in our drive to improve the performance, safety, health and sustainability of the built environment and we support and celebrate the talented people who make it happen

We inspire

We are passionate about the quality of the built environment and we encourage committed people, from every background, to join our community.





3 CIBSE gold medals awarded



19,000

average monthly
users to *CIBSE
Journal* website



750

certified CIBSE
Energy
Assessors



39,900

followers on CIBSE
LinkedIn group
and company page



4,365

views of
#IamCIBSE
blogs



4,710,000

total audience for CIBSE press coverage

President's message



Lynne Jack

In 2019 we witnessed an increased global focus on climate change, which was met by our industry with a renewed pledge to make buildings better and increased recognition of the invaluable contribution we make in meeting global carbon targets.

Through a challenging year, it was encouraging to see what our industry achieved and the overwhelming commitment to ensuring our buildings perform better.

In my Presidential Address last May I called for the industry to adapt to the changing political and environmental climate. We must also not lose sight of our main goal of providing safe, functional, sustainable buildings that are fit for purpose in their performance today and adaptable for the future.

The Building Performance Awards were a clear demonstration of what can be delivered. The 37-storey EY Centre in Sydney, developed by Mirvac, was crowned Building Performance Champion, and was described by the awards judges as an 'exemplary project', receiving praise for its truly holistic approach to building performance and wellbeing.

Residential Project of the Year was Lark Rise, designed by bere:architects, which is an ultra-low energy, all-electric, two-bedroom detached property, and the UK's first certified Passivhaus Plus home. It was described by the judges as a 'groundbreaking development' with the potential to demonstrate how building homes to this specification could be adopted more widely.

Digital engineering is also evolving rapidly, allowing increased collaboration on an array of projects. We celebrated achievements in this field at the Digital Engineering Awards which, although only in their second year, attracted a large number and variety of entries. The innovation and creativity

of the winners highlighted what can be achieved with the advances and increased adoption of this discipline.

Unsurprisingly, with the publication of the report on Phase 1 of the public inquiry into the fire at Grenfell Tower, we have also seen a sharpened focus on responsibilities around Building Regulations and compliance. Chartered Institution of Building Services Engineers (CIBSE) technical team and the Society of Façade Engineering were both involved in the Hackitt review, which is testament to the expertise of our members and staff.

The review highlighted the essential role we have to play in ensuring building occupants are safe and buildings fit for purpose. The timely publication of Guide E: *Fire safety engineering*, in 2019, enables our members to better serve society and meet their professional duties for compliance with fire safety requirements. This also helps our members in other parts of the world, notably Australia, to respond to the questions about building façades and fire safety being raised.

The diverse nature of our industry was clearly evident at CIBSE's Build2Perform Live event, held in London in November. This two-day flagship event attracted more than 1700 visitors and brought together more than 170 speakers in sessions covering subjects ranging from health and wellbeing to decarbonisation, and retrofit to digitalisation.

Practical actions to help accelerate the UK's progress to meeting its 2050 net zero carbon emissions target were the focus of the event's opening day, with keynote speaker,

“
 We believe that an inclusive culture brings resilience, creativity and innovation – qualities that deliver both better buildings and a stronger building services engineering community.
 ”

Baroness Brown of Cambridge, outlining the enormity of the challenge the UK faces.

The vast range of expertise and experience at the event was inspiring, and a beacon of hope for what we, as an industry, can achieve with the innovation this talent can drive forward.

We can also gain inspiration and reassurance for the future by looking at the emerging talent at the Young Engineers Awards. The seven Graduate of the Year finalists demonstrated an exceptional ability to communicate effectively – a skill that is essential if our industry is to collaborate successfully with fellow professionals and engage with those who commission, use and occupy buildings.

But they can't get there alone, and the awards were also a reminder of the importance of nurturing and mentoring our young engineers. The employers recognised at the awards demonstrated progressive strategies for recruiting, nurturing and empowering young people, and provide a suitable environment for our young engineers to flourish.

The encouragement of those new to the engineering community is essential to ensure they reach their full potential and feel motivated to progress. I was privileged to be able to witness this firsthand when I hosted the Young Engineers Network (YEN) Conference in Kuala Lumpur in November. This new talent gives us hope of finding innovative solutions to the urgent challenges of climate change and having a significant impact on building performance.

We also celebrate those who have helped pave the way for future generations, providing positive and inspiring role models. In 2019 an unprecedented three CIBSE members were honoured with gold medals, the highest accolade awarded by CIBSE.

From fellows to student members, CIBSE must continue to make sure our Institution, and industry, is welcoming and inviting to all. We believe that an inclusive culture brings resilience, creativity and innovation – qualities that deliver both better buildings and a stronger building services engineering community.

To this end, we are working hard to enhance awareness and understanding of diversity and inclusion throughout CIBSE and our Inclusivity Panel has developed Inclusivity Guidelines to help CIBSE members and staff.

As we reflect on what we have delivered in 2019 it is clear that we still have some way to go, but the overarching feeling I take with me into 2020 is one of immense optimism that we have the talent and resolve required to continue to meet the multiple challenges of climate change, building safety and digitisation.



Our values

Last year CIBSE developed our new Vision, Mission and Values, which are the foundations for ensuring we maximise our positive impact on the world. Our 2019 annual report, therefore, takes its themes from these values.

We lead

CIBSE is leading the conversation on equipping the built environment for a changing climate.

Building services are key to keeping building users as safe and comfortable as possible, promoting occupant health and wellbeing, minimising impact on the environment during construction and in use, and driving improved performance and productivity.

CIBSE leads the way in promoting improvement in the performance of buildings to the benefit of users, developers and owners, and as a natural consequence of what we do day-to-day.

Our involvement in government level discussions and consultations makes us a strong champion for better standards and enforcement, driving buildings that are safe and fit for purpose.

We empower

CIBSE empowers our members and the wider building community through the sharing and dissemination of knowledge and training. We enable people to access the skills and knowledge they require to fulfil their potential and serve society.

Knowledge sharing is one of CIBSE's primary roles in the industry. Working with the industry and its clients, CIBSE serves wider society by developing and publishing internationally recognised guidance and codes.

The knowledge provides authoritative guidance for the design, installation and operation and maintenance of engineering services in buildings. It enables engineers to keep up to date with best practice in technology and standards, and supports the implementation of policies to improve safety, comfort and productivity of buildings and reduce their carbon emissions.

In an industry that is seeing increasingly complex and changing technology, CIBSE enables building services engineers to keep abreast of the changes and empowers them to deliver the best outcomes for clients and end users. By improving their skills and knowledge they can help everyone live and work in safer, healthier and more comfortable spaces.

We champion

CIBSE supports and champions the diversity, breadth and strength of its membership. CIBSE membership recognises and accredits expertise so that those who are competent can be widely and reliably recognised.

CIBSE champions the skills and experience of our members, raising their profile and giving prominence to the best engineers who value good building performance.

CIBSE relies on our members to help generate knowledge in a variety of specialisms for industry and public benefit across many areas of the world. Diversity of CIBSE's membership is central to achieving these goals.

CIBSE delivers the greatest benefit to society when its knowledge is drawn from the full spectrum of people and professions who form its membership.



Collaborative Working Partnership, Broadway Chambers, Woodford Heating and Energy

We inspire

We inspire our community and wider society to strive for better and safer building performance.

Our monthly CIBSE Journal, the annual Building Performance Awards, the Technical Symposium and Build2Perform Live all serve to raise wider public awareness of what we do and the importance of building services engineering to society. They maximise the impact of the work CIBSE does, and building services engineering in its broadest sense, to a highly diverse audience.

Raising awareness helps people appreciate the benefits of supporting building services engineers in their careers and work to improve building performance.

Demonstrating the importance of good building performance, and the link with good building services engineering, reinforces the message that the success of the built environment is crucial to many areas of public life.

Our Building Performance Awards and Young Engineers Awards demonstrate what can be achieved by the expertise and talent across the industry and inspire others to tap into their own creativity and encourage innovation.

Inspiring others to join our community and choose engineering as a career are essential if we are to meet our environmental targets, and we encourage committed people from every background. Through the work of our Inclusivity Panel and our commitment to diversity, we hope to attract as broad a range of new engineers as possible.

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What is quite special about the building services industry, is that people are designing for people, with the end-user being a priority throughout the design process.

Abigail Roberts, YEN London, #IamCIBSE

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We lead

One of CIBSE's primary purposes is to lead in the delivery of authoritative guidance on the principles of better building performance, helping engineers keep up to date.

The net zero carbon agenda demands significant changes in the way we build our homes, offices, healthcare and leisure buildings. CIBSE knowledge will be key to providing building designers, constructors and operators with the guidance they need to deliver and manage low carbon buildings. Our expertise is vital to setting standards for future homes and other buildings.

In a fast-changing environment that demands digital delivery of knowledge and guidance, we are improving and accelerating the way we generate our knowledge and the means by which people can access it and published several online tools in 2019.

As a charity, our aims are driven by our charter to support 'the Science, Art and Practice of building services engineering, by providing the public and our members with first class information and education services'.

CIBSE Guide E: Fire safety engineering

With fire safety a priority for the building industry globally, it was appropriate that a revised and updated version of the widely respected CIBSE Guide E on fire safety engineering was published in June.

The fourth edition of Guide E addresses fire safety issues, including fire detection and automatic fire suppression systems, building evacuation, access for firefighters and controlling the spread of smoke and fire.

It incorporates additional content on international best practice, including North America, Australasia, and the Gulf region. It also takes account of recent changes to the Building Regulations in England, prohibiting the use of combustible materials in certain external walls of buildings.

There are generally two ways of demonstrating compliance with Building Codes and regulations. One is to follow the prescriptive requirements given in the codes and accompanying guidance and the other is to use a fire engineering approach. Guide E focuses on fire engineering and is intended to be the essential document, providing building services engineers and fire life safety consultants with guidance on a broad range of fire engineering issues. It is particularly useful for those involved in innovative or unusual building designs where the prescriptive approach may not be suitable.

The Guide enables designs to be developed to reflect current best practice and latest standards. Further changes to the regulations will be incorporated into later revisions, with significant updates being posted online.

Supporting climate change policy

CIBSE's work on climate change, in particular overheating, and guidance on wellbeing informed the Committee on Climate Change, being cited in its report on the state of UK housing. The Committee called for greater regulation of the risk of overheating in buildings, based on recent work done by CIBSE and adding significantly to the wider calls for action on this issue. This again shows the direct relevance of CIBSE work to building performance in the UK and the value of CIBSE guidance in the development of wider policy and regulation.

Digital Engineering Series

The CIBSE Digital Engineering (DE) Series has been developed to help the built environment supply chain tackle the practical challenges of digital engineering and building information modelling (BIM). Digital information management offers the prospect of passing as-built information through to those who own, operate and maintain buildings, enabling them to maintain and improve the performance of their building through its lifecycle. This concept of a 'golden thread' of information is a key recommendation of the Independent Review of Building Regulations and Fire Safety.

In January DE6.1: *Cyber security in building services design* was published, providing further guidance on this aspect of BIM.

In addition, a library of online symbols was published, providing an agreed set of symbols for use in digital processes. Further modules in the series are being developed to expand the range of symbols available and broaden the scope of the library.

Building Information Modelling Standards

The CIBSE Digital Steering Group brings together those concerned with the implications of digitalisation within the industry. The Group leads development of the CIBSE Digital Engineering Series, Product Data Templates and BIMHawk tool. It also provides significant input to the British Standards Institution on relevant standards. These are playing an

important role in ensuring international adoption of security minded BIM processes and collaborative working, in particular the ISO 19650 series of standards.

CIBSE contributed significantly to the first two BIM international standards, BS EN ISO 19650–1 Organization of information about construction works – Information management using building information modelling – Part 1: Concepts and principles and – Part 2: Delivery phase of assets, which were published in January.

Technical Symposium

The annual CIBSE Technical Symposium is an invaluable opportunity for professionals of all ages to hear about the latest building services innovations and research. This event encourages the participation of both young and experienced industry practitioners, researchers and building users to share experiences and develop networks.

The ninth Symposium, held in Sheffield, hosted more than 70 speakers and welcomed 250 delegates – the largest ever attendance outside London. The theme, 'Transforming built environments – Driving change with engineering', focussed on the advances in materials, technologies and techniques that lead to and motivate positive changes in the built environment. The Symposium papers are available at cibse.org/technicalsymposium.

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Playing a part in the move towards sustainable building services makes me proud to be part of our industry.

Andrew Griffiths, YEN Scotland, #IamCIBSE

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Consultations

CIBSE is committed to leading the industry on policy and regulation changes. Responding to relevant consultations is a crucial activity and our Technology Committee oversees responses to government and devolved administration consultations and calls for evidence from Select Committees, ensuring the interests of our members are represented.

A major focus of our efforts has been the ongoing response to the Grenfell Tower fire. The Independent Review of Building Regulations and Fire Safety highlighted the need for buildings to perform and be safe, but also comfortable, promote the health and wellbeing of their users and not have significant adverse impacts on the local environment. CIBSE is committed to supporting the review findings and implementation, and submitted a full response to the consultation on 'Building a Safer Future', which set out further details of the implementation plans. We are also active members of the Construction Industry Council (CIC) post-Grenfell expert panel.

CIBSE and our members are contributing to work on the review of Parts F and L and of Overheating, and we are engaging with the Welsh Government as it takes forward its own review of the regulations in Wales.

There has been significant dialogue with the Department for Business, Energy and Industrial Strategy (BEIS) and the Committee on Climate Change on the way forward for zero carbon policy for energy in buildings.

In 2019 formal responses were submitted to the following consultations:

- Amendments to the Approved Document B: Sprinklers and other fire safety measures in new high-rise blocks of flats
- Redress for purchasers of new build homes and the New Homes Ombudsman
- Net zero government inquiry
- Draft guideline on indoor air quality at home
- Building a Safer Future: Proposals for reform of the building safety regulatory system
- Social value in government procurement
- Decarbonising heating: Overview of current evidence
- Scrutiny of the draft Environment (Principles and Governance) Bill
- Measuring environmental change – Draft indicators framework for the 25 year environment plan
- Energy efficiency inquiry
- Draft guidance on streamlined energy and carbon reporting
- Effects of indoor air quality on children and young people's health.

All CIBSE responses to public consultations are available on the CIBSE website.

[cibse.org/consultations](https://www.cibse.org/consultations)

Responding to climate change and the net zero carbon agenda

CIBSE has a history of engagement on climate change mitigation and adaptation and the link to building performance. The CIBSE Climate Action Plan identifies our current and planned activities in the areas where we have a duty and ability to act as a professional institution. CIBSE was instrumental in setting up the CIC Climate Change Expert Panel.

The Position Statement 'Steps to net zero carbon buildings' summarises CIBSE's recommendations on how the regulation of energy use and carbon emissions from buildings in the UK needs to change. It sets out how this should be reflected in the review of Building Regulations Part L and the developing Future Homes Standard.

Leading in collaboration – National Engineering Policy Centre (NEPC)

CIBSE is part of the National Engineering Policy Centre (NEPC), an ambitious new partnership of the 36 UK engineering organisations led by the Royal Academy of Engineering. The NEPC manifesto, '*Engineering priorities for our future economy and society*', calls on government to invest in skills, innovation, digital and traditional infrastructure and clean energy technologies. It gives key policy recommendations to enhance the UK's world-leading innovation and engineering capacity.

Certification

In 2019 CIBSE Certification continued to certify the competence of energy professionals. It recorded more than 750 certified energy assessors for the purposes of the Energy Performance of Buildings Regulations, including 60 in Scotland, and more than 900 Low Carbon Consultants.

CIBSE Certification continuously worked to raise the profile of its certification schemes to reinforce the reputation of Low Carbon Consultants (LCCs) and Low Carbon Energy Assessors (LCEAs) as a high quality, expert service and an important means of raising competence across the industry. The Minimum Energy Efficiency Standards Regulations have seen an increase in demand for CIBSE Certification registered energy assessors from landlord organisations reviewing their portfolios. Lodgement credit sales in 2019 were the highest since 2012.

2019 was the phase 2 reporting year for the Energy Savings Opportunity Scheme (ESOS), so throughout the year there was a steady flow of new applicants, as well as people re-joining our ESOS Register, making nearly 250 ESOS Lead Assessors in all.

Our UKAS accreditation to certify energy management systems against ISO 50001 and ISO 9001 means that CIBSE Certification can support companies operating energy management systems or quality management systems by providing third party verification that their system operation conforms to the standard. In 2019 companies in the CIBSE community started to use the ISO 9001 certification service. CIBSE Certification also started to issue ISO 14001 certificates as part of the application process for UKAS accreditation for that standard.

From 1 September 2019, CIBSE Certification business has been transacted through CIBSE Certification Ltd, having previously been undertaken through CIBSE Services Ltd. CIBSE Certification Ltd is a wholly owned subsidiary of The Chartered Institution of Building Services Engineers.


cibsecertification.co.uk

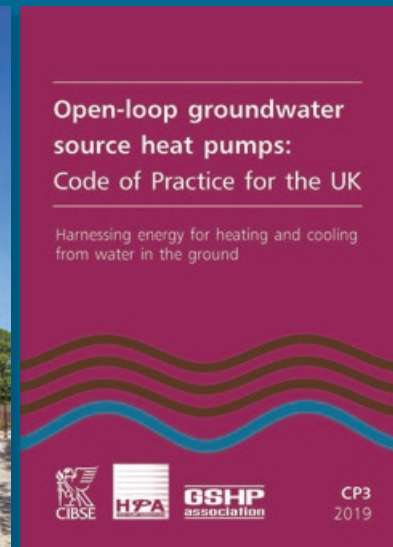
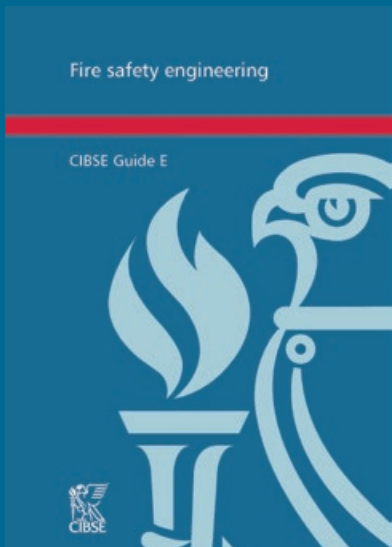




Lighting Guide 2:
Lighting for healthcare premises



 Lighting for the
built environment



We empower

The CIBSE Knowledge team produces information, data and guidance to provide the CIBSE community with the resources they need and to develop the skills of members and others in the industry to deliver safe, efficient and accessible products and services.

Throughout 2019, the CIBSE Knowledge Portal, and its content, continued to be the most visited section of our website, recording:

- More than one million visits
- From 215 countries
- 50,000+ downloads.

CIBSE members benefit from unlimited access to more than 750 online resources. The Knowledge Portal is regularly updated with new knowledge, including our Guides, Technical Memoranda (TMs) and other guidance, commissioning codes, research papers, case studies and the presentations from past Technical Symposia and Build2Perform Live.

CIBSE knowledge is also available for non-members to purchase through the Knowledge Portal. Revenue from the Portal contributes to the ongoing improvement and development of CIBSE's guidance.

2019 saw a shift in the format of knowledge outputs produced by CIBSE, with the release of digital tools, such as Energy Benchmarking and Digital Symbols. Other releases to include:

- *Commissioning definitions and terminology for the building industry: A common overview* – an ASHRAE* co-publication with CIBSE and AiCARR**
- CIBSE Guide E: *Fire safety engineering*
- DE6.1 *Cyber security in building services design*
- Energy benchmarking online tool
- CP3: *Open-loop groundwater source heat pumps: Code of Practice for the UK*
- Online symbols library – initial three modules released on small power, lighting and fire alarms, and ventilation
- *Working with WELL: Using the WELL Building tool in the UK – Air*
- Lighting Guide 19: *Lighting for extreme conditions*
- Lighting Factfile 7: *Design and assessment of exterior lighting schemes*
- Lighting Guide 2: *Lighting for healthcare premises*
- Guide M Appendix 12.A1: *Indicative economic life expectancy tables.*

*The American Society of Heating, Refrigerating and Air Conditioning Engineers

**The Italian Association of Air Conditioning, Heating and Refrigeration

Technical journals

CIBSE's two peer reviewed technical journals: *Building Services Engineering Research and Technology (BSER&T)*; and *Lighting, Research and Technology (LR&T)* continue to go from strength to strength. *BSER&T* is published six times a year and *LR&T* eight times a year to meet demand from submitted papers. These significantly increase the role of the Institution in disseminating research to a wide international audience.

BSER&T celebrated its 40th anniversary in 2019 with several notable editorials and articles. The first article of the year reviewed progress on understanding the causes of 'failure' in building design – a reprise and development by Derek Clements-Croome of his paper which appeared in the first issue in 1980. He considered the latest methods of measurement and assessment which provide feedback data for sustainability and also highlighted the increasing focus on health and wellbeing rating assessments.

Specially commissioned editorials included a review of the forerunners to *BSER&T* including the journal of the IHVE; opinions on more than 40 years in building performance simulation; and a look forward to UK low-carbon heating.

A special issue *Assessing and mitigating overheating in buildings* was published in 2019, which included papers on the challenges of refurbishment, designing for the elderly and the simulation and modelling of overheating scenarios. Special issues can take up to two years to produce and require particularly dedicated input from editors and authors.

The journals are available to CIBSE members as a benefit of membership, with a worldwide subscriber base supported by our publishing partner Sage.

cibse.org/knowledge

Training

In 2019 CIBSE's training team worked with:

- More than 2000 trainees
- 130 classroom training courses
- 86 in-house courses
- 2170 active online learning users.

CIBSE's in-house training remained popular, with both existing and new companies choosing to train multiple staff at once, at a location of their choice.

Our growing portfolio of training activities included working alongside the Green Register to host a half-day seminar: Avoiding overheating, based on CIBSE's guidance, which was well received, selling out with more than 70 attendees.

The training team continues to recruit trainers to meet demand for new courses.

CIBSE's online learning platform allows learners the flexibility to choose where and when they want to train. Over 2019 the platform was developed and content updated, including the release of new digital engineering modules, as well as a core engineering module: Above ground drainage. The training team commissioned updates of the following core modules:

- Cable sizing
- Introduction to mechanical and electrical building services
- Hot and chilled water pipework systems
- Heating systems design.

cibse.org/training





We champion

CIBSE is the leading professional body for the building services profession, with more than 22,000 members in more than 100 countries serving the global construction engineering sector.

CIBSE members are part of a network that offers professional support and expertise across the globe. They work in partnership with other professional bodies, construction and engineering firms worldwide to deliver engineering excellence in the built environment.

Supporting engineers into CIBSE membership and professional registration remains at the centre of what the membership department does. We continue to develop initiatives to increase professional competence in the profession, which is also a key recommendation of the Hackitt Review.

CIBSE provides members with:

- Unlimited access to the Knowledge Portal, with digital access to all CIBSE guidance
- Subscription to the *CIBSE Journal*, CIBSE email newsletter, *BSER&T* and *LR&T* Journals
- Preferential rates on printed copies of publications from CIBSE and other publishers
- Extensive opportunities for professional development and networking.

Our 2019 highlights include:

- Linking ACIBSE and MCIBSE applicants with interviewers via report writing workshops and phone surgeries
- Continued promotion of CIBSE membership to those participating in CIBSE Special Interest Groups, and the advancement to professional membership grades for current Affiliate Members
- Increased activity at universities and colleges to promote the profession, CIBSE and professional registration
- Working with training providers and graduating the first set of apprentices through our new End Point Assessment scheme.

Regions

The Institution is organised on a regional basis. There are 16 regions in the UK and four overseas – in Ireland, Australia and New Zealand, Hong Kong and the United Arab Emirates (UAE). There are also Chapters in Canada, China (Shanghai and Chongqing), Qatar, Singapore and Sri Lanka.

Each region is driven by a committee of dedicated volunteers who engage with members and improve understanding of building services engineering among other professions and society in general. This is achieved primarily through events covering a wide range of built environment topics, often organised in collaboration with other CIBSE groups and societies, as well as other institutions and organisations.

The 20 regions are:

- Australia & New Zealand
- East Anglia
- East Midlands
- Home Counties North East
- Home Counties North West
- Home Counties South East
- Home Counties South West
- Hong Kong
- Ireland
- Merseyside & North Wales
- North East
- North West
- Northern Ireland
- Scotland
- South Wales
- South West
- Southern
- United Arab Emirates
- West Midlands
- Yorkshire

Young Engineers Network (YEN)

The CIBSE Young Engineers Network is a global network of regional centres offering a forum for engineers at the beginning of their careers to learn new skills, expand their knowledge and give or receive peer support. YEN is open to both CIBSE members and non-members.

YEN exists to:

- Promote a positive and welcoming image for building services, especially for those who did not study the discipline at university
- Enable young engineers to engage more closely with the Institution at an early stage in their careers
- Encourage more women to join and remain involved in the building services profession
- Establish a formal link with CIBSE Council and Board
- Help younger engineers to promote building services engineering to school and university students
- Guide young engineers towards a long-term career in building services

In 2019 YEN held its Global Conference in Malaysia. The conference, hosted by CIBSE President Lynne Jack, included a tour of the new Heriot Watt University campus, Petronas Towers, a visit to Singapore and local Malaysian construction sites to learn about the different approaches to building services.

Societies and Divisions

Key sectors are represented within CIBSE by professional bodies that offer professional recognition to their members and support the science, art and practice within their field. These are all Divisions of the Institution but often referred to as Societies. Following the formation of the Society of Digital Engineering and the recognition of CIBSE Patrons as a Division, the General Rules for the Divisions have been updated and the supplementary rules for the various Divisions reviewed to reflect the revised Divisional Rules.



2019 Graduate of the Year finalists

Society of Digital Engineering (SDE)

The Society of Digital Engineering provides a forum for those involved in digitising the built environment, whether as designers, contractors, manufacturers, clients, facilities managers or software vendors. Membership is open to all involved in digital engineering, building information modelling (BIM), software for design and analysis of buildings, computer aided facilities management and other related activity.

It provides professional recognition to digital engineers and a route to CIBSE membership and registration with the Engineering Council.

The Society hosted the second Digital Engineering Awards at Build2Perform Live 2019. The awards generated a wider range and number of entries than in 2018. The Society also ran sessions at Build2Perform Live dedicated to digital engineering and how it impacts on and relates to other activities in which members engage.

In 2019 the SDE ran a one day design challenge to see what could be done to automate common project workflows. Feedback on the challenge from those involved was overwhelmingly positive, with many reporting that the exercise will help with their internal processes.

The SDE works closely with the CIBSE Digital Steering Group, which works to create the products and services used by members. In 2019 the Digital Steering Group:

- Created the next four batches of standard symbols, hosted on the CIBSE website and freely accessible to all
- Completed the first nine digital engineering publications – which are also eLearning modules available on the CIBSE eLearning platform and through our partner member, Excitech, via its Pinnacle eLearning platform
- Completed new guidance in the digital engineering series: *Cyber-security in building services design*
- Continued to provide our Fundamentals of BIM course – both at CIBSE and in-house
- Continued to work on the CoDEC (Certificate of Digital Engineering Competency) scheme, initially for manufacturers, but with the aim of extending it to other sectors of our industry.

The Society of Façade Engineering (SFE)

The Society of Façade Engineering brings together the disciplines involved in the process of design, supply, installation, testing and operation of building façades in a forum where they can work together to advance knowledge and practice in façade engineering. The Society includes architects, façade engineers, building services engineers, structural engineers, academics and contractors.

The Society promotes good practice to enable today's increasingly complex building façades to meet performance criteria, including safety, weather-tightness, thermal performance, ventilation, lighting, solar control, and acoustics.

In 2019 the Society continued to contribute to work in response to the Grenfell Tower fire and championed the importance of professional competence. Other activities included technical events, city walking tours and the SFE awards, Façades 2019, which were presented at the Glass Supper industry dinner in December. There has been a focused effort at making the Society less London focused with a big launch event in Manchester and some smaller joint events with CIBSE regions.

Society of Public Health Engineers (SoPHE)

The Society aims to provide a higher profile and focus for public health engineers.

The Society ran a programme of technical events in 2019, which were open to all, covering various aspects of water, drainage, energy, sustainability and legislation. These also covered projects incorporating cutting edge engineering solutions, which go beyond current design practices and challenge industry norms.

The Society worked closely with the SoPHE Industrial Working Group to introduce an annual event, held in July, which showcased the newest products in the sector, alongside a small seminar programme.

The Society of Light and Lighting (SLL)

The Society welcomes all who are interested in the art, science and engineering of light, lighting and its applications. Lighting designers, consulting engineers, researchers, students, academics, manufacturers and sales staff all contribute to its membership. It offers authoritative guidance, professional recognition and a range of technical events. SLL is recognised worldwide as an authority on lighting and its applications.

The Society published new guides, including LG2: *Lighting for Healthcare Premises* and LG19: *Lighting for Extreme Conditions*. In addition, free-to-download Lighting Factfiles LF7: *Design and assessment of exterior lighting schemes* and LF15: *The importance of glare and calculating UGR* were published.

The SLL LightBytes series was presented at seven venues in 2019, in partnership with sponsors Soraa, Thorlux, Zumtobel and Xicato. Developed in association with the CIBSE Daylight Group and the sponsors, the series focused on the four topics of people, space, time and place. Dr Eleonora Brembilla, research associate in advanced building daylight modelling at Loughborough University, was the guest presenter.

The Society exhibited at Darc Rooms in September and LuxLive in November, where the final of the SLL Young Lighter of the Year Award was held before the winner was announced at the Lux Awards.

The Society exhibited at Light Middle East in October, promoting the Society in the United Arab Emirates (UAE) region and welcoming new members. This supports our

members in the region and promotes CIBSE knowledge and expertise. At this event SLL hosted the fourth Ready Steady Light Middle East.

The Institute of Local Exhaust Ventilation Engineers (ILEVE)

The Institute was established to promote air quality in the workplace and reduce ill health and death due to occupational lung disease caused by airborne contamination and hazardous substances in the working environment. There are around 8,000 new cases of occupational lung disease annually, making it a significant problem for all those affected, their families and dependants and a serious burden on the healthcare system.

ILEVE works with the Health and Safety Executive (HSE) and other professional and trade bodies to raise awareness of the need for local exhaust ventilation (LEV) to safeguard workplace health and promote competence.

The Institute's Competence Cards are issued to members as proof of their peer assessed and evidenced competence and provide a benchmark for LEV competence standards. ILEVE offers a path to full professional registration for engineers in LEV and a means to maintain and enhance professional standing.

In 2019 ILEVE rebranded with a modernised logo and committed to widening its reach by reducing membership subscription costs for corporate grades. It also exhibited and ran sessions at the British Occupational Hygiene Society conference and held its first event in the CIBSE Scotland region.

“

‘Being part of CIBSE and SLL throughout my career has meant that I feel part of a welcoming community of people who are open and keen to share and support.’

Kristina Allison, lighting designer, #IamCIBSE

”



Special Interest Groups

The 18 Special Interest Groups cover topics ranging from daylighting and lifts to controls and electrical services. Participation is open to anyone – CIBSE members and non-members alike, making their activities open to anyone with an interest in the topics that they address.

Through the groups, CIBSE engages with some 45,000 non-members with a specific interest in one or more of the topics covered by the groups.

1. ASHRAE
2. Building Simulation
3. Chimneys and Flues
4. CHP and District Heating
5. Daylight
6. Electrical Services
7. Energy Performance (including the Young Energy Performance Group)
8. Facilities Management
9. Healthcare
10. Heritage
11. Homes for the Future
12. HVAC Systems
13. Information Technology (IT) & Controls
14. Intelligent Buildings
15. Lifts
16. Natural Ventilation
17. Resilient Cities
18. School Design

The groups run a variety of technical activities and provide knowledge and information through a range of channels. Several groups contributed to the 2019 Build2Perform Live seminar programme.

In 2019 many groups started hosting their event content online, increasing access for CIBSE and group members. One of the hottest topics on the agenda of group events last year was: ‘how can we reach net zero by 2050?’

Inclusivity

CIBSE believes that an inclusive culture brings resilience, creativity and innovation – qualities that deliver both better buildings and a stronger building services engineering community. CIBSE is working hard to ensure our organisation and profession are welcoming to all, for the benefit of all. Actively working to address and improve inclusivity is more than a business imperative; it's simply the right thing to do.

The CIBSE Inclusivity Panel continues to focus on its three key aims, which are to:

1. Improve awareness and understanding of inclusivity and diversity across CIBSE, and embed these concepts within the Institution's strategic aims
2. Improve the breadth and quality of data captured about staff and members' 'protected characteristics'
3. Increase the proportion of female members and registrants

For the first aim 2019 saw the panel considering how to embed inclusivity in all the various strands of current CIBSE activity.

On the second, we are working with the senior staff team to ensure CIBSE's processes and systems can support the capture of this data in a compliant, transparent and secure manner.

On the third aim, the Panel ran a survey in 2019 reaching out to members of the building services industry to gain a better understanding of the environment in which we work and study in respect of inclusivity and diversity. More than 900 responses were received, and an action plan is being formulated, based on the results.

In 2019 the Inclusivity Panel also organised a thought-provoking session at Build2Perform Live titled, Differently abled: Developing a new understanding of disability and ability. This sensitive issue was explored by challengingly honest speakers who concluded that as an industry we need to encourage co-production rather than only consultation when trying to achieve inclusive design, employment of a more diverse workforce to help reduce a lack of empathy at design stage, and to not judge people on their diagnoses.

cibse.org/inclusivity



Façade of the Year – Innovation, Morpheus Hotel, Macau, BuroHappold Engineering, credit: ©Virile Simon Bertrand

We inspire

CIBSE worked to raise the public profile of the Institution throughout 2019, maximising reach through the use of diverse communication routes, including events, digital media, conventional news outlets and increasingly social media. This effort supports the wider use of the Institution's knowledge and expertise to deliver better buildings and shape the debate around key issues in the building services sector.

Build2Perform Live (26 – 27 November 2019)

Build2Perform Live, at London Olympia, opened with a full house for Baroness Brown's presentation on Reaching net zero. Build2Perform 2019 proved a major celebration of the vital work of the CIBSE community, welcoming 1700 visitors and 152 speakers and hosting 54 technical sessions. There was also a programme of 19 exhibitor technical presentations to update attendees on the latest technical product information.

Build2Perform Live is a free-to-attend event that facilitates the sharing of CIBSE and industry knowledge to the benefit of the wider built environment. Key topics in this year's programme were: systems thinking and integration; digitalisation; retrofit and refurbishment; health, wellbeing and productivity; climate

impact; policy; energy: decarbonisation and storage; modular and offsite construction; and people, competence and skills. Attendees showed a particular interest in understanding low carbon technologies for heating and cooling, total building performance and digital engineering sessions. Sessions consistently focused on providing specific building performance 'takeaways', which attendees could apply in their work.

New initiatives for 2019 included: recording a stream of content for release to CIBSE members across the year, a Patrons' hub, and a Society of Public Health Engineers hub. Work has already started on further initiatives for 2020.

build2perform.co.uk

CIBSE Journal

The *CIBSE Journal* enjoyed another successful year in 2019, with the magazine celebrating its 10 year anniversary. This was marked in the February edition with an article featuring Bill Bordass and Quinten Babcock, who both appeared in the first edition in 2009, looking back over the last 10 years and at what still needs to be done to meet environmental targets.

The Journal continued to support CIBSE's priorities, publications and events with extensive coverage of the Building Performance Awards winners across the year, content from the Technical Symposium, Young Engineers Awards and Build2Perform Live and coverage of group and division events.

The June edition included an interview with CIBSE President Lynne Jack, who also appeared on the cover. To coincide with International Women in Engineering Day, the edition featured an article on what the industry is doing to boost diversity.

For the first time, the Journal published a supplement focusing on health and wellbeing. The supplement included details of the update to CIBSE TM40: *Health and wellbeing*, a write up from the first CIBSE Health and Wellbeing Group debate and a look at Deloitte's new UK headquarters, which attained Well Gold certification.

Four additional standalone supplements were produced in 2019. These covered: school and education facilities, commercial heating, hotel and leisure facilities and lighting.

The Journal hosted two sponsored roundtable discussions, one focusing on pipework and the other on improving standards in installations of cooling systems. It also held three sponsored webinars, on emergency lighting, off-site systems build and power resilience.

The Journal website continues to attract high visitor numbers, with an average of more than 19,000 monthly users. This is supported by regular social media activity highlighting the main features and news stories.

cibsejournal.com

jobs.cibsejournal.com

Media relations

In 2019 CIBSE worked with public relations agency Ridgemount PR to place 20 feature articles across 15 publications, including *RIBA Journal*, *LABM*, *Architects Datafile*, *P&FM*, *FMJ*, *Facilitate*, *ABC&D*. CIBSE distributed 18 press releases covering our major events, new publications and commercial undertakings, and these were published across a wide variety of industry outlets.

CIBSE website

The website continues to be the focus for our interaction with members and the wider industry. Based on feedback from members, we have enhanced the search facility on the Knowledge Portal, introducing drop-down menus to give easier access to the full range of knowledge. In parallel, we have completed a review of site content and are working to update the content.

cibse.org

Social media

[#lamCIBSE](https://twitter.com/lamCIBSE)

Launched in March 2019, the #lamCIBSE campaign aimed to raise awareness and celebrate the work of the talented, committed and dedicated individuals who work in building services engineering. The campaign provided people with the opportunity to share their success stories and achievements.

Campaign headline statistics include:

2,100

web views on the
#lamCIBSE landing page

4,365

followers on
Twitter

500+

likes on #lamCIBSE
social media posts

700+

uses of the
#lamCIBSE hashtag

In 2020, CIBSE is focusing on celebrating the networks, groups, regions, divisions and organisations that make up the CIBSE community through #WeAreCIBSE activities and posts.

[#Build2Perform](#)

CIBSE #Build2Perform continued to be at the centre of the conversation about building performance. This hashtag is now part of the CIBSE branding, and is used across all CIBSE social media platforms, the CIBSE Journal, Build2Perform Live and the Technical Symposium. It is used by CIBSE and the industry to amplify messages about improving and optimising the performance of buildings.

Instagram

With the introduction of the #IamCIBSE campaign, CIBSE launched its first Instagram account to allow as many people as possible to champion #IamCIBSE and celebrate best practice and the CIBSE community.

Twitter, LinkedIn and Facebook

Engagement across all these social media platforms continued to grow in 2019. The marketing team concentrated on sharing content that would celebrate and inform followers, as well as creating posts that would stimulate conversations, moving away from marketing-based messaging. This proved popular, with LinkedIn comments increasing to an average of 18 a month, compared to only six in 2018.

Channel	Followers			
	2019	2018	2017	2016
Facebook	930	600	224	-
Twitter	24,300	22,900	21,210	19,000
LinkedIn group & company page	39,935	33,445	25,613	22,210
Instagram	466	-	-	-

CIBSE blog

Over 2019 viewing numbers for the CIBSE blog doubled to a total of 186,000, with both new posts and older entries proving popular. Each product and service area used the channel to produce and share insightful posts that championed their activities, creating 41 posts across the year, compared to nine posts in 2018.

The most popular blogs of 2019 were:

- How in-house training could benefit your company: 1562 views
- What's new for CIBSE Building Performance Engineer of the Year 2019 winner: 1139 views
- "I am doing something worthwhile for the planet." #IamCIBSE: 813 views

cibseblog.co.uk



Building Performance Awards guest speaker, Dr Sarah Prichard

Building services awards

Our awards showcase the outstanding achievements of individuals, teams and companies across the building services industry, celebrating the incredible talent we can all be proud to be a part of.

Building Performance Awards 2019

Now in their 12th year, the 15 awards recognise the individuals, teams and companies who demonstrate an exceptional commitment to ensuring buildings deliver safety, comfort, efficiency and sustainability, and that they are fit for purpose for their lifespan.

Entries to project categories were required to provide at least one year's operational performance data to demonstrate their achievements in delivering measurable excellence in building performance.

The 2019 winners were announced at the awards dinner at the Grosvenor House Hotel in front of more than 700 guests.

The EY Centre in Sydney, Australia developed and built by Mirvac won the overall Building Performance Champion award, also taking the International Project of the Year award. The 33-floor tower was recognised for delivering premium-grade office space whilst achieving demanding sustainability targets. The tower incorporates a high-performance façade and an energy efficient demand-controlled ventilation system. Judges described the scheme as 'an exemplary project' and praised the truly holistic approach to building performance and wellbeing.

A new category – the Engineer of the Year – was launched in 2019 to celebrate an individual's achievements. Clara Bagenal George, senior engineer at Elementa Consulting claimed the title, after launching the influential London Energy Transformation Initiative.

cibse.org/bpa



Building Performance Awards 2019 winners

CIBSE Digital Engineering Awards 2019

Established in 2018 by the Society of Digital Engineering, the Digital Engineering Awards showcase innovation and leadership in digital engineering – a discipline which has become fundamental to the design of high-performance buildings. They look to identify and promote outstanding applications of digital engineering from clients, engineers, contractors and manufacturers.

BuroHappold Engineering was recognised as the overall Digital Engineering Champion after winning in three categories: Best Consultancy; Best Innovation; and Best Process and Application. The judges noted that not only had they achieved excellent technical solutions, but they had taken a truly collaborative approach to developing their toolsets and processes and encouraging wider industry collaboration.

Jagannatha Reddy of Arcadis won Best Digital Engineer, impressing judges for the sheer breadth and depth of digital engineering that he had pioneered and championed.

FAÇADES 2019

Organised by the Society of Façade Engineering, the annual Façade of the Year competition is the Façade industry's longest running and most prestigious awards. The awards recognise and reward excellence and achievements in Façade Engineering, raising the profile and drawing attention to the importance of the discipline in modern architecture. The 2019 winners, announced at the Glass Supper in London, demonstrated the diverse and remarkable nature of what can be achieved.

Sir Robert McAlpine and Josef Gartner won the New Build award for the Bloomberg Headquarters in London. The Refurbishment award was won by Mott MacDonald for Great Arthur House, London. BuroHappold Engineering took the Innovation award for the Morpheus Hotel, Macau China.

The Happold Brilliant Award

Winner: London South Bank University

The annual Happold Brilliant Award is presented by CIBSE to the university department judged to offer the best-balanced accredited course in the discipline of building services engineering. The judges were impressed by the high quality of graduates produced by the university and felt that project topics covered a wide range of building services areas and included sustainability and renewable systems. The award was presented to Dr Alex Paurine on behalf of London South Bank University.

Ken Dale Travel Bursary

Winner: Raphael Amajuoyi, Hurley Palmer Flatt

Raphael Amajuoyi won the Ken Dale Travel Bursary for his research on designing for gender equality.

His research will explore the comfort levels experienced by different genders within the modern-day office. He travelled to San Francisco, Rio de Janeiro and Doha for his research, and also conducted research in London.

Judges said his subject matter, quality bid and presentation gave him the lead over the other submissions.

The annual travel bursary offers between £1,500 – £4,000 to young building services engineers in the early stages of their career, providing them with the opportunity to research an aspect of their field of work in another country.

President's Prize – The Undergraduate Award (sponsored by Hays Building Services)

Winner: Yu Fu, University of Nottingham Ningbo China

Yu Fu won the CIBSE Undergraduate Award 2019 for his final year project, *A machine learning approach to predict window openings in naturally ventilated buildings*. A trophy was also presented to University of Nottingham Ningbo China in acknowledgement of its achievements.

The award, sponsored by Hays Building Services, is designed to encourage students to develop their potential and aim for excellence. It is awarded to those in their final year of a building services course accredited by CIBSE, and recognises their academic achievements.

Society of Light and Lighting (SLL) Young Lighter of the Year Award

Winner: Anna Wawryniak, Peter Andres Lichtplanung, Germany

2019 marked the 25th year of the SLL Young Lighter of the Year Award. The award is open to anyone with an interest in light and lighting under the age of 30. It provides finalists with a unique platform to illustrate their knowledge and research on a lighting subject and encourages young lighters to develop their knowledge and enhance their skills.

Anna Wawryniak from architectural lighting design consultancy Peter Andres, Lichtplanung in Germany, won the competition with her presentation A light booster metro car for the commuting work force: Human centric lighting in underground transportation.

Society of Public Health Engineers (SoPHE) Young Engineer of the Year Award

Winner: Keir Loudon, Arup

The 2019 SoPHE Young Engineers Award challenged applicants, aged 18 – 35, to produce a promotional video celebrating the work of a public health engineer. Keir's winning video provided an exciting and engaging insight into the problem solving undertaken by public health engineers.

Young Engineers Awards

The Young Engineers Awards (YEA) encompass the CIBSE ASHRAE Graduate of the Year and Employer of the Year awards. Now in its 24th year, the awards celebrate the industry's best examples of young talent and give recognition to those companies who champion the next generation of engineers through a commitment to education, on the job training and mentoring.

CIBSE ASHRAE Graduate of the Year 2019

Winner: Laura Luckhurst, Cundall

The Graduate of the Year award recognises excellence in the early stages of the engineer's career. The shortlisted finalists are among the best young engineers in the profession. The award required the seven finalists to demonstrate that they also had the best soft skills by delivering a five minute presentation on a given theme.

Laura Luckhurst, a graduate mechanical engineer at Cundall, won for her articulate and confident presentation in response to the question: 'how can building services professionals find the right balance between the needs of the global environment, occupant health, wellbeing and productivity, and best value?' She said the key to finding the right balance was to use existing research and guidance and apply it 'to every single project we work on'.

Runners up were Felix Cox, mechanical engineer at AECOM, and Tom Lusty, building services engineer at Couch Perry Wilkes.

CIBSE Employer of the Year Award 2019

Winner: AECOM

The Employer of the Year awards recognise employers that have shown excellence and innovation in developing the engineers of the future. For the second year running AECOM was recognised for its progressive strategy for recruiting, nurturing and empowering young people, winning in the large company category, before being crowned overall champion.

Fairheat won the small company category, and Troup Bywaters + Anders won the large company category.



Left to right): Lorraine Milne, Happold Foundation with Dr Alex Paurine; Andy Cook, Hays with Yu Fu; Laura Luckhurst; AECOM

Full list of award winners in 2019

CIBSE Gold Medals

- Peter Boyce
- Victor Cheung Chi-Kong
- David Hughes
- David Wood

CIBSE Silver Medals

- Chris Jones

Bronze medals for service to the Regions

- Steve A Hunt – Merseyside & North Wales
- David Mather – YEN
- Andrew Michael Forrest – Merseyside & North Wales

Honorary Fellow

- Geoff Prudence

Carter Bronze Medal

- Yiyi Chu, Peng Xu, Zhiwei Yang and Weilin Li

Napier Shaw Bronze Medal

- Gesche M Huebner, Tadj Oreszczyn and Robert J Lowe

The Happold Brilliant Award

- London South Bank University

Ken Dale Travel Bursary

- Raphael Amajuoyi

President's Prize: CIBSE Undergraduate Award

- Yu Fu

Society of Light and Lighting Young Lighter of the Year Award

- Anna Wawryzniak

Society of Public Health Engineers Young Engineer of the Year Award

- Keir Loudon



(From top): Lynne Jack, Peter Boyce and James Shove; Clara Bagenal George; BuroHappold Engineering

Young Engineers Awards

- CIBSE ASHRAE Graduate of the Year: Laura Luckhurst
- CIBSE Employer of the Year overall winner and large company winner: AECOM
- Employer of the Year, small company: Fairheat
- Employer of the Year, medium company: Troup Bywaters + Anders

CIBSE Building Performance Awards

- Building Performance Champion: EY Centre, Sydney Australia – Mirvac
- Building Performance Consultancy (up to 100 employees): WARM: Low Energy Building Practice
- Building Performance Consultancy (101 – 1000 employees): Cundall
- Building Performance Consultancy (over 1000 employees): BuroHappold Engineering
- Collaborative Working Partnership: Broadway Chambers – Woodford Heating and Energy
- Learning and Development: The Cundall Diploma – Cundall
- Energy Management Initiative: 2 Kingdom Street Demand Driven Strategy – Cavendish Engineers
- Facilities Management Team: TfL Head Offices FM Portfolio – Transport for London
- Energy Efficient Product or Innovation: Armstrong Tango parallel pumping solution – Armstrong Fluid Technology
- Energy Saving Product or Innovation: The Encore Cistern – The Green Futures Initiative
- Project of the Year – Commercial/Industrial: One Angel Square, Northampton – BDP
- Project of the Year – Public Use: Urban Sciences Building, Newcastle University – BuroHappold Engineering
- Project of the Year – Residential: Lark Rise – bere:architects
- Project of the Year – International: EY Centre, Sydney, Australia – Mirvac
- Building Performance Engineer of the Year: Clara Bagenal George, senior engineer – Elementa Consulting

Digital Engineering Awards

- Best Process and Application: BuroHappold Engineering – ‘Parametric dwelling optioneering’
- Best Innovation: BuroHappold Engineering – ‘Building and habitats object model’
- Best Project/Collaboration (small): Arcadis – ‘London Underground, step free access tranche-2’
- Best Project/Collaboration (large): Ramboll and JG Ingenieros – ‘Proyetco 5 Estrella’
- Best Consultancy: BuroHappold Engineering
- Best Manufacturer: Schindler
- Best Digital Engineer: Jagannatha Reddy, Arcadis
- Digital Engineering Champion: BuroHappold Engineering

FAÇADES 2019 (Society of Façade Engineering)

- Façade of the Year New Build: Sir Robert McAlpine and Josef Gartner – Bloomberg Headquarters, London
- Façade of the Year Refurbishment: Mott MacDonald – Great Arthur House, London
- Façade of the Year Innovation: BuroHappold Engineering – Morpheus Hotel, Macau China



Future plans

We lead

The evidence of the gap in performance between design aspiration and what actually gets built is clear cut. If we want net-zero emissions buildings then this must be addressed. There is an urgent need to redouble efforts to drive improved performance of our built environment, not just in design and construction, but throughout the life cycle of operation and maintenance. CIBSE will continue to deliver guidance to support this improvement.

CIBSE will continue to support the work of the inquiry into the Grenfell Tower disaster in every appropriate way, seeking as far as possible to eliminate the risk of such an event happening again. We will continue to support the ongoing reforms to industry practice, regulation, enforcement and guidance.

We empower

CIBSE will continue to work with our members and the wider industry to provide best practice knowledge, guidance and learning through appropriate media and at point-of-use to support further improvement of the safety, comfort and performance of buildings, occupants and wider community.

We will continue to review our delivery of engineering knowledge and guidance to our members, the wider industry and public, and maintain a wide-ranging programme of knowledge development.

We champion

Supporting engineers into CIBSE membership and professional registration remains at the centre of what the membership department does.

Initiatives for 2020 include:

- Introducing online applications to establish a more efficient process into membership
- Developing and establishing our End Point Assessment process for building services apprenticeship qualifications

We inspire

We will continue to maximise the impact of the work of CIBSE, our members and the wider building services engineering community and their commitment to improving building performance.

We will continue to showcase good practice through *CIBSE Journal*, our awards, Build2Perform Live, Technical Symposium and other technical activities and communications, raising public awareness of what we do and the importance and value of building services engineering to society.



Financial accounts and summary

The Institution's Annual Accounts are presented to comply with the Charities Act 2011, its Royal Charter and By-Laws and to meet all applicable accounting standards including the Statement of Recommended Practice – Accounting and Reporting by Charities and the Financial Reporting Standard applicable in the UK and Republic of Ireland (Charities SORP FRS 102). Investments are shown at market value and the Annual Accounts incorporate the assets, liabilities, income and expenditure of the Regions. The results of the Institution's commercial subsidiary CIBSE Services Limited and The Chartered Institution of Building Services Engineers Hong Kong Limited are incorporated into the Consolidated Accounts.

Total income for 2019 was £7.3m, about £300k more than the previous year. All income streams showed an increase, with the most significant uplift in membership. Total expenditure was £7.2m, an increase on the previous year in line with the increase in income.

As a result, net income before gains on investments was £70k, which was slightly down on 2018 but ahead of the budget set for the year. There was a significant unrealised gain on investments of £298k which was substantially in excess of the 2018 loss of £47k. This resulted in net income of £368k.

There was an actuarial loss on the defined benefit pension scheme of £143k, resulting from changes in assumptions and the effect of the asset ceiling, although the value of the Fund's assets had increased substantially. The Institution continues to fund the recovery plan agreed following the triennial valuation of the scheme carried out as of 1st April 2017.

As a result, funds rose to £2.67m from £2.44m in 2018. This reflects the increase in investments, offset by the actuarial loss on the pension scheme, in addition to the operational surplus on the Institution's activities.

The cash balance increased to £1.38m from £0.91m in 2018, with further improvements having been achieved to the collection of membership subscriptions.

Reserves policy

The Institution has a reserves policy to maintain a level of funds that is sufficient to meet four months of payroll expenditure, any unplanned contingencies and to accommodate investment for new initiatives. The Board considers that the Institution's overall level of funds is sufficient for these purposes, but the free reserves of the Institution have reduced as a result of strategic investments in recent years. The intention of the Board is to rebuild free reserves to previous levels over time.

At the year end, the Institution held free reserves of £0.61m (2018: £0.37m), being the amount of funds available excluding restricted and designated funds, and less reserves held as tangible fixed assets.

It is the view of the Board that any expenditure from reserves should be applied only to finance new initiatives which will make a substantial contribution to the delivery of the Institution's strategic charitable objectives, and that the cost of existing activities should be met from incoming revenues from year to year. Any decision on the use of reserves rests with the Board on the advice of the Hon. Treasurer and the Finance, Risk, Audit & Governance Sub Committee.

Consolidated statement of financial activities for the year ended 31 December 2019

	Unrestricted funds	Restricted funds	Total 2019	Unrestricted funds	Restricted funds	Restated Total 2018
	£	£	£	£	£	£
INCOME FROM:						
Charitable activities						
Members' subscriptions	3,319,871	49,875	3,369,746	3,086,868	49,570	3,136,438
Fees receivable for charitable services	354,469	10,837	365,306	318,812	13,878	332,690
Other trading activities						
Trading subsidiary companies	3,560,955	-	3,560,955	3,495,430	-	3,495,430
Investments						
Investment income	63,649	-	63,649	59,181	-	59,181
Total income	7,298,944	60,712	7,359,656	6,960,291	63,448	7,023,739

Consolidated statement of financial activities for the year ended 31 December 2019 continued

	Unrestricted funds	Restricted funds	Total 2019	Unrestricted funds	Restricted funds	Restated Total 2018
	£	£	£	£	£	£
EXPENDITURE ON:						
Raising funds						
Trading subsidiary companies	3,176,466	-	3,176,466	3,050,453	-	3,050,453
Charitable activities						
Membership	1,716,128	-	1,716,128	1,505,673	-	1,505,673
Technical	701,057	75,437	776,494	617,738	46,600	664,338
Regional & special interest groups	1,112,584	-	1,112,584	1,197,051	-	1,197,051
Research	507,127	-	507,127	503,224	-	503,224
Total expenditure	7,213,362	75,437	7,288,799	6,874,139	46,600	6,920,739

Consolidated statement of financial activities for the year ended 31 December 2019 continued

	Unrestricted funds	Restricted funds	Total 2019	Unrestricted funds	Restricted funds	Restated Total 2018
	£	£	£	£	£	£
Net income/ (expenditure) before gains on investment	85,582	(14,725)	70,857	86,152	16,848	103,000
Net gains/(loss) on investment	297,830	-	297,830	(47,344)	-	(47,344)
Net income/(expenditure)	383,412	(14,725)	368,687	38,808	16,848	55,656
Other recognised losses						
Actuarial gain/(loss) on defined benefit pension scheme	(143,000)	-	(143,000)	(160,000)	-	(160,000)
Net movement in funds	240,412	(14,725)	225,687	(121,192)	16,848	(104,344)
Fund balances brought forward at 1 January	2,328,812	111,676	2,440,488	2,450,004	94,828	2,544,832
Fund balances carried forward at 31 December	2,569,224	96,951	2,666,175	2,328,812	111,676	2,440,488

Consolidated and Institution balance sheets as at 31 December 2019

	Group		The Institution	
	2019	2018 Restated*	2019	2018 Restated*
Fixed assets				
Intangible assets	-	-	-	-
Tangible assets	667,520	698,584	468,040	472,451
Investments	1,963,425	1,665,595	1,963,429	1,665,597
Total fixed assets	2,630,945	2,364,179	2,431,469	2,138,048
Current assets				
Stocks of publications	30,529	27,493	-	-
Debtors	865,675	855,656	281,567	222,057
Cash at bank and in hand	1,381,831	906,885	1,247,865	807,116
Total current assets	2,278,035	1,790,034	1,529,432	1,029,173
Liabilities				
Creditors: Amounts falling due within one year	(2,278,805)	(1,758,725)	(1,985,950)	(1,389,670)
Net current liabilities	(770)	31,309	(456,518)	(360,497)
Net assets excluding pension scheme asset	2,630,175	2,395,488	1,974,951	1,777,551
Defines benefit pension scheme asset/ (liability)	36,000	45,000	36,000	45,000
Total net assets	2,666,175	2,440,488	2,010,951	1,822,551

Consolidated and Institution balance sheets as at 31 December 2019 continued

	Group		The Institution	
	2019	2018 Restated*	2019	2018 Restated*
The funds of the charity				
Restricted Funds	96,951	111,676	96,951	111,676
Unrestricted funds				
General fund	1,279,637	1,072,905	624,414	454,968
Designated funds	1,289,587	1,255,907	1,289,586	1,255,907
Total charity funds	2,666,175	2,440,488	2,010,951	1,822,551

* It should be noted that the Institution has reduced its current liabilities and increased its opening reserves in respect of deferred income by £94,567 for the year ended 31 December 2018. The institution had carried forward the asset from prior years but no longer holds an obligation to earn the income and therefore recognised the amount as in income in prior years.

Members of the Board and Council

With effect from CIBSE AGM, 7 May 2019:

President: Lynne Jack

President-Elect: Stuart MacPherson

Vice President: Ashley Bateson

Vice President: Kevin Kelly

Vice President: Kevin Mitchell

Hon Treasurer: Adrian Catchpole

Immediate Past President: Stephen Lisk

Elected Members of the Board

Les Copeland

Fiona Cousins

David Fitzpatrick

Susan Hone-Brookes

P L Yuen

Co-opted Members

Atif Rashid

Chief Executive Officer

Stephen Matthews

Members of the Consultative Council

All Board members are also
members of Council

Past Presidents

John Field

Peter Wong

Elected Members

Colin Ashford

Eleanora Brembilla

Carol Clark

Sebastian Gray

Maria Longo

Laura Mansel-Thomas

Andrew Piper

Linda Vidler

Co-Opted Members

Wally Gilder

Paddy Conaghan

Divisional Representatives

James Shove (SLL)

Jonathan Gaunt (SoPHE)

Savario Passetto (SFE)

Les Copeland (SDE)

Dean Greer (ILEVE)

David Fitzpatrick/Nick Mead
(interim from Nov 19) (Patrons)

Young Engineers Network

Alexandra Logan



CIBSE AGM 2019

YEN Mentor

Andrew Saville

WiBSE

Laura Dunlop

Inclusivity Panel

Atif Rashid

REHVA

Andy Ford/David Fisk

Fellows Network

Geoff Prudence

EC(UK) Board Rep

George Adams

Digital Steering Group

Les Copeland

Standing Committee Chairs

- Education Training and Membership: Vince Arnold
- Communication Committee: Mariana Trusson
- Technology Committee: Katie Clemence
- Professional Conduct Committee: John Armstrong
- Knowledge Management Committee: David Hughes
- Regional Liaison Committee: Stuart MacPherson

Group Representatives

- ASHRAE: David Green
- Building Simulation: Darren Woolf
- Chimneys & Flues: Jim Kinnibrugh
- CHP and District Heating: Huw Blackwell
- Daylight: John Mardaljevic
- Electrical Services: Tony Sung
- Energy Performance: Roger Macklin
- Facilities Management: Geoff Prudence
- Healthcare: Frank Mills
- Heritage: Andrew More
- Homes for the Future: Tom Lelyveld
- HVAC Systems: Tony Day
- Information Technology (IT) & Controls: Vacant
- Intelligent Buildings: Derek Clements-Croome
- Lifts: Adam Scott
- Natural Ventilation: Chris Iddon
- Resilient Cities: George Adams
- School Design: Jeremy Climas

Regional Representatives

- ANZ: Paul Angus
- East Anglia: Nicola Booth
- East Midlands: Jarrod Tandy
- HCNE: Austin Williamson
- HCNW: Olu Babalola
- HCSE: Richard Davies
- HCSW: Darren Warmington
- Hong Kong: Wai Yip Stanley Chow
- Ireland: Mona Holtkötter
- Merseyside & North Wales: Martin Tunnicliffe
- North East: Bobo Ng
- North West: Colin Lehane
- Northern Ireland: Nigel Jess
- Scotland: Karen Warner
- South Wales: Justin Thomas
- South West: Carla Bartholomew
- Southern: Sean Gibson
- UAE: Reid Donovan
- West Midlands: Jos Brownlie
- Yorkshire: Kayley Lockhead

Trustees' responsibilities

The Trustees are responsible for preparing the Trustees' report and the financial statements in accordance with applicable law and United Kingdom Accounting Standards (United Kingdom Generally Accepted Accounting Practice).

The law applicable to charities in England & Wales requires the Trustees to prepare financial statements for each financial year which give a true and fair view of the state of affairs of the Institution and the Group and of the incoming resources and application of resources of the Institution and the Group for that period. In preparing these financial statements, the Trustees are required to:

- select suitable accounting policies and apply them consistently;
- observe the methods and principles in the Charities SORP;
- make judgements and estimates that are reasonable and prudent;
- state whether applicable accounting standards have been followed, subject to any material departures disclosed and explained in the financial statements; and
- prepare the financial statements on the going concern basis unless it is inappropriate to presume that the Institution and the Group will continue in operation.

The Trustees are responsible for keeping adequate accounting records that are sufficient to show and explain the Institution's transactions and that disclose with reasonable accuracy at any time the financial position of the Institution and the Group and enable them to ensure that the financial statements comply with the Charities Act 2011. They are also responsible for safeguarding the assets of the Institution and the Group and hence for taking reasonable steps for the prevention and detection of fraud and other irregularities.

The Trustees are responsible for the maintenance and integrity of the corporate and financial information included on the Institution and the Group's website. Legislation in the United Kingdom governing the preparation and dissemination of financial statements may differ from legislation in other jurisdictions.

Approved by the Board of Trustees and signed on its behalf by:



Lynne Jack
President



The Chartered Institution of Building Services Engineers

222 Balham High Road, London, SW12 9BS

General Enquiries: **+44 (0)20 8675 5211**

Email: **info@cibse.org**

Website: **www.cibse.org**

CIBSE is a registered charity: **number 278104**