Front cover photographs show (left to right) ICES Northern Counties site visit to Derwent Dam; Guests at the 2018 Institution Dinner at Celtic Manor, Wales; and Christina Hirst receiving the Richard Carter Prize for excellence in geospatial engineering from ICES vice president Chris Preston.
Foreword

2018 has been a wonderful year for our institution. Our profile, worldwide, is growing as we connect with other professional bodies through mutual recognition, collaborative work on joint panels, regular meetings to discuss matters of mutual interest, and the putting in place of official memoranda of understanding. We have an army of volunteers who are passionately delivering services to our membership, at home and overseas, and to them I say a very big thank you.

2018 saw the submission of our application for membership of the UK Engineering Council. This is being considered in 2019. We are hopeful that we meet the criteria to obtain a licence and are able to deliver what would be a great achievement in this, our 50th anniversary, year.

Talking of our impending anniversary, it will be an honour to hand my presidency over to our incoming president, Chris Preston, in February 2019. The handover takes place at a celebratory lunch with former presidents and chairs that will mark the start of our golden anniversary year. For me, the sincere respect that we have for each other, and our achievements, is the essence of ICES and, from a personal perspective, is what has made my time as president so enjoyable.

I hope that from all the information you will find in this annual report, that you will agree with me in concluding that your institution is in good health. That is down to the stewardship of Council of Management and the other core and regional committees that are leading the way for the next 50 years.

Finally, I reserve my biggest thanks for our staff. I have spent some considerable time at Sale, talking to all our hard working staff members, and it is heartening to see their enthusiasm in all that they undertake on behalf of our membership. No task is too much trouble for them, the publications are exceptional and they deserve our thanks.

I hope that 2019 is successful for you, and for our institution.

Ian Cowling CEng FCInstCES, President
Members and society

We saw more registered engineers under the ICES route, taking the total to 13 chartered engineers and welcomed our very first incorporated engineer. We received further expressions of interest in professional registration from members, taking the total to 84 over the last four years.

We held 175 review interviews, comprising 31 for technical membership; 130 for membership; and 14 for fellowship.

We welcomed 141 attendees at 32 membership surgeries for one-to-one advice, and carried out 34 membership workshops for civil engineering surveying companies.

21 members attended training to become assessors of continuing professional development records.

Our annual region chairs meeting was held in London to exchange best practice and address common issues for our regional committees.

Christina Hirst was awarded the biennial Richard Carter Prize for excellence in geospatial engineering, for her work in driving the trailblazer geospatial apprenticeship schemes which launched in 2018.

Our social networks grew to 3,887 members on LinkedIn; 3,111 likes on Facebook; and 2,663 followers on Twitter.

We welcomed our youngest ever Technical Member, aged just 19.

We were again co-organisers of the GEO Business conference and exhibition that attracted 2,600 visitors from 53 countries.

We continued to promote return to work schemes through the Women Returners organisation.

John Bacon received the President’s Medal for his outstanding service to the institution for over 39 years.

We held 26 committee meetings and 77 regional events, including the annual Burns Club Supper in Cumbernauld; a networking cruise on the Thames; a talk on laser scanning on HS2; and various NEC4 events throughout the regions.

We formed an Accreditation Working Party to manage the accreditation of universities and colleges.

We welcomed the first members of our 2040 Forum to lead forward-thinking debate from younger members within the institution.

We released a short animated film explaining the role of the civil engineering surveyor to be hosted on social media sites and used at events.

We began work on new membership competencies for digital engineering and carried out a review of our utilities and sub-surface mapping competencies.
Innovation and learning

We continued to be represented on the steering groups for the trailblazer apprenticeships for project control technician; geospatial survey technician; and geospatial mapping and science specialist.

We accredited new academic courses at the University of Derby and University College of Estate Management. We re-accredited academic courses at Loughborough University, Camborne School of Mines and the University of Salford. This takes the total number of accreditations to 121 across 38 institutions.

New approved development schemes (ADS) were welcomed at six companies, and a further four were re-accredited, taking the total number of companies with ADS to 61.

Our inaugural approved development scheme awards were given to Catsurveys and Balfour Beatty.

We ran a national Commercial Management Conference attracting 85 delegates and began planning the 2019 conference.

We hosted 10 days of training workshops in our specialist suite.

Our partnership with Driver Trett continued to provide training specifically mapped to our commercial management competency requirements.

Articles in Civil Engineering Surveyor featured surveying the crane rail replacement at the Port of Brisbane; the Heaven Sent skydiving stunt; the National College for High Speed Rail; innovative inspection processes for marine pipelines; the 2nd edition of the CIC BIM Protocol; blockchain; the Surveying Sisterhood; and we began a major series on Flat Earthism.

ICES Publishing Prizes were awarded to Sarah Rock, from law firm Gowling WLG, for her article ‘Trant v Mott MacDonald: BIM in court’; and Bob Marthouse, director of operations and systems engineering at Teledyne Optech, for ‘Cleaning up the Great Pacific Garbage Patch’.

We featured interviews with Ann Bentley of the Construction Leadership Council; Fred Mills of the B1M YouTube channel; modern slavery consultant Tony Dunkerley; Jennifer Schooling of the Cambridge Centre for Smart Infrastructure and Construction; Peter Newman of the Intergovernmental Panel on Climate Change; Col Steve Whitney of the GPS Directorate; Keith Bentley, founder of Bentley Systems; William Priest, the UK’s Geospatial Commissioner; Peter Fretwell of British Antarctic Survey; Elaine Owen of Timepix; and Autodesk’s Theo Agelopoulos.
Our consolidated accounts for the last financial year showed ICES and SURCO had a surplus of £86,000. This will be invested in improving the services provided to members.

We submitted a response to consultations and calls for evidence from Highways England; the Construction Industry Council’s Hackitt Review Procurement Panel; National Infrastructure Commission Interim Assessment; the Geospatial Commission; and the ISO 19650 international standard for building information modelling (BIM).

We promoted and supported national initiatives to raise awareness of construction careers, including Class of Your Own for schoolchildren and BuildForce for former military personnel.

We sponsored 21 student awards at the universities of the West of England, Derby, Salford, Plymouth, East London and Nottingham Trent; and at the Survey School and Royal School of Military Engineering.

Our publications continued to be freely available online. In 2018 we attracted 16,339 individual visitors from 140 countries to our dedicated online publications portal and welcomed 2,325 registered users of the app.

Our core membership competencies were updated to include security and risk awareness.

We held a strategic workshop involving members and industry specialists to examine ways to push through the outstanding areas within our current five-year plan.

We continued to be represented on the Construction Industry Council’s Health and Safety Panel.

Our promotion of the uptake of BIM and digital engineering continued. We are members of the UK BIM Alliance and Survey4BIM.

Over £1,400 for the Lighthouse Club benevolent charity was raised at our annual dinner.

We began using a compostible wrap for posting out our publications.

We joined panels led by the Construction Industry Council set up in the wake of the Grenfell Tower fire disaster.

We published the Client Guide to Instrumentation and Monitoring – a pan industry publication written by survey professionals, endorsed by the Royal Institution of Chartered Surveyors, The Survey Association and the Institution of Civil Engineers.

We joined the Specialist Engineering Contractors Group in supporting the retention bill put to UK Parliament.
Institution affairs and collaboration

We conducted presidential visits to Hong Kong, Macau, and the UAE; alongside members of the presidential team visiting the UK and Ireland regions.

We led a joint event with the Royal Institution of Chartered Surveyors to give the new Geospatial Commissioner William Priest the opportunity to address members on its forthcoming strategy.

We became a partner of the Cambridge Centre for Smart Infrastructure and Construction to share knowledge and latest research.

We renewed our memoranda of understanding with the American Society of Civil Engineers, Institution of Civil Engineers, Royal Institution of Chartered Surveyors and Master Builders Association Malaysia. This takes the total number of collaborative agreements to 25.

We were supporters and media partners for numerous conferences and exhibitions including Autodesk University London; Bentley Year in Infrastructure; HxGN Live; Intergeo; UK Mapping Festival; and Marine and Coastal Civil Engineering Expo.

We continued testing and developing our new website and database ready for launch in 2019.

We attended the global congress of the International Federation of Surveyors (FIG) in Istanbul.

We held a successful Institution Dinner at Celtic Manor in South Wales, attracting over 380 guests.

We continued to work with the Institution of Civil Engineers through the joint Management Panel and Geospatial Engineering Panel.

Our membership and sharing of information with the International Cost Engineering Council continued.

We continued to be represented on the Joint Contracts Tribunal and Infrastructure Conditions of Contract user groups; the Construction Industry Council’s Adjudication and Liability Panels; and Institution of Civil Engineers’ Dispute Resolution Panel.

We continued to work with ICE Publishing on the new CESMM4 Handbook.

We took over the chair of the Survey Liaison Group, comprising ICES, the Royal Institution of Chartered Surveyors and the Survey Association.

We again welcomed the Society of Construction Law to introduce our annual Construction Law Review.
### ICES in numbers

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>Fellows</td>
<td>419</td>
<td>Members in the UK and Ireland</td>
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<tr>
<td>Members</td>
<td>1,664</td>
<td>Members in Hong Kong, Macau and China</td>
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<tr>
<td>Technical Members</td>
<td>216</td>
<td>Members in the UAE</td>
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<tr>
<td>Associate Members</td>
<td>285</td>
<td>Members in 50+ further countries</td>
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<td>Graduate Members</td>
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<tr>
<td>Student Members</td>
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<td>Members aged 18-30</td>
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<td>Affiliates</td>
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<td>Members aged 31-45</td>
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<tr>
<td>Retired Members</td>
<td>273</td>
<td>Members aged 46-60</td>
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<td></td>
<td></td>
<td>Members aged 61+</td>
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<td>Male members</td>
<td>4,389</td>
<td>ICES Chartered Engineers</td>
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<tr>
<td>Female members</td>
<td>520</td>
<td>ICES Incorporated Engineer</td>
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<tr>
<td></td>
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<td>Age and gender data where given by members.</td>
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</tbody>
</table>

All figures correct as of 31 December 2018. Age and gender data where given by members.