

# 2013 review

Incorporating the annual report and accounts  
of the Institution of Chemical Engineers



# Governance and leadership

## IChemE Council members

<b>Judith Hackitt CBE</b> President	Chair, Health and Safety Executive, UK
<b>Russell Scott</b> Immediate past president	Chief executive officer, Uhde Oil & Gas, Australia
<b>Geoffrey Maitland</b> Deputy president	Professor of energy engineering, Imperial College London, UK
<b>Andrew Jamieson OBE</b> Honorary treasurer	Director, Woodside Energy Ltd, Australia
<b>Colin Webb</b> Vice president (qualifications)	Professor of chemical engineering, University of Manchester, UK
<b>Ross McCann</b> Vice president (international)	Chairman, Qenos, Australia
<b>Ed Daniels</b> Vice president (technical)	Executive vice president of Global Solutions Downstream, Shell, UK
<b>Moses Tadé</b> Vice president (Australia)	Professor and dean of engineering, Curtin University, Perth, Australia
<b>Bill Harper</b>	Senior process engineer, Sellafield Ltd, UK
<b>Steve Harrow</b>	Manager process engineering, Foster Wheeler, UK
<b>Julian Chaudhuri</b>	Professor and head of chemical engineering, University of Bath, UK
<b>BP Chow</b> Chair, IChemE Malaysia board	Managing director, Aquakimia, Malaysia
<b>Peter Hunt</b>	Business development director, ABB Consulting, UK
<b>Max Kennedy</b>	National manager biological industries, Ministry of Business, Innovation and Employment, New Zealand
<b>Jon-Paul Sherlock</b>	Director of analytical science, AstraZeneca, UK
<b>John McGagh</b>	Head of innovation, Rio Tinto, Australia
<b>Richard Darton</b>	President, European Federation of Chemical Engineering, UK (Invited to attend)

## IChemE senior staff

<b>David Brown</b>	Chief executive officer
<b>Justin Blades</b>	Deputy chief executive & chief operating officer
<b>Neil Atkinson</b>	Director of qualifications and international development
<b>Jo Downham</b>	Director of finance and business
<b>Claudia Flavell-While</b>	Director of publications
<b>Andrew Furlong</b>	Director of policy and communications
<b>Peter Slane</b>	Director, Australasia

# The leaders of tomorrow are emerging

A week may be a long time in politics, but a year is undoubtedly a very short period to be president of IChemE. The year has flown by and it has been a pleasure and a great honour to serve in the role.

I announced in my presidential address last year that I'd make *Chemical Engineering Matters* the focus of my presidency. This strategic document sets out the key challenges which face the world and our profession and in doing so demonstrates why chemical engineering has such an important part to play in providing essential solutions. *Chemical Engineering Matters* enables us all to identify where we fit into the total picture – to demonstrate our contributions and how it all fits together to create benefit for society now and into the future.

During my presidency, I came across a definition of engineering used by the BBC in a programme aimed at primary-school children: "Engineers help build the world around us. They use science to solve problems". That's it! That's exactly what we do and we need to say it as simply and clearly as the BBC so that more people understand the contribution we make and why this profession is vital to the sustainability of our planet. I believe the firm foundations we have laid with *Chemical Engineering Matters* in the last year provide us with the vehicle to do just that and to engage many, many more of our members on the journey.

One of the greatest pleasures for me has been meeting the many young engineers in our membership and being inspired by their commitment and enthusiasm. There have been many such encounters, but I want to mention two in particular:

I was blown away by the spirit of teamwork in the group that organised *Chemeca 2013* in Brisbane – what an absolutely great job you all did!

In February I attended a meeting held at University College London which highlighted the opportunities for young women in chemical and biochemical engineering. Six young women spoke about their early careers – including Sarah Button, who won IChemE's Young Chemical Engineer of the Year Award in 2013

I am really excited to see the leaders of tomorrow already taking part in the work of the Institution – you are the future!

My reflection ends on a sad note – because we lost a great leader in Trevor Kletz, who died in October 2013. I have committed to ensure that we establish a suitable legacy in recognition of his outstanding contribution to our profession and to making chemical processes inherently safer. I will pledge to see this to conclusion as I hand over the presidency to Geoff Maitland.

I trust I have served you well and have greatly appreciated the support I have received from members of Council, IChemE and the broader membership.



Judith Hackitt, CBE FREng FIChemE

IChemE president 2013-14



# The secret behind our success



IChemE made good progress in 2013 with membership nearing 38,000 and our global footprint enhanced through new collaborations and an improved product and service offer in support of our mission to advance chemical and biochemical engineering worldwide.

This report provides a brief overview of activities in a year where the key driver behind our work programmes were aligned for the first time with IChemE's technical strategy, *Chemical Engineering Matters*, and will continue to do so in the years to come.

Supporting the skills pipeline lies at the heart of IChemE's work. Relationships with employers and our corporate partners received a boost with the establishment of industry panels in several countries, drawing on major employers of chemical engineers. This represents a significant new collaboration that provides a powerful insight into the challenges facing the process industries globally. IChemE continually works to refine its course accreditation and membership process and this new dialogue will help us to deliver 'work-ready' graduates in Australasia, Europe and South East Asia.

Process safety remained a top priority for IChemE in 2013. The long-running *Hazards* symposium was staged in Kuala Lumpur, Malaysia for a second time with a Chinese government delegation in attendance. Australia witnessed the launch of IChemE's successful *Human Factors in Health and Safety* programme, and an inaugural *Hazards Australasia* event. 2013 also saw the first recipients of our newest qualification – *Professional Process Safety Engineer* – receive their certificates. These men and women will be standard-bearers for process safety around the world. Trevor Kletz would surely have approved.

In March, IChemE opened a new local office in Singapore, a move inspired by strong demand from local members and the growing strategic significance of the Jurong Island complex as a world-scale energy and chemicals hub. Elsewhere, the Gulf Coast Regional Member Group was launched in the US and IChemE's activity in the Middle East stepped up a gear. Process engineering skills development was the focus of IChemE's work with Qatar Gas in a year that also saw more member group events in the region.

Our senior management team remains focussed on striking a balance between IChemE's mission as a professional society and the imperative to run a sustainable commercial organisation. I am confident that we are getting this right. Our total income passed £7m for the first time in 2013 – up 6% year-on-year – and careful attention on the spending front delivered a useful year-end surplus and a good result. We are indebted to IChemE's international staff team for its work in delivering this positive outcome.

2013 was a year in which the Institution boldly asserted that chemical engineering matters. For our members, this proposition has never been in doubt. We have a great story to tell and IChemE is committed to helping its membership to get that message across to opinion formers and policy makers around the world.

In conclusion, I want to express my thanks to the army of volunteers that makes IChemE tick. Members of Council, the national boards, the special interest groups, the regional member groups, the *whynotchemeng* volunteers, the conference committees, the membership interviewers, the report assessors, the accreditation panellists and more; you are the secret behind our success.

A handwritten signature in black ink that reads "David Brown". The signature is written in a cursive style and is positioned above a horizontal line that serves as a separator.

David Brown

Chief executive officer, IChemE

# Building an active international community

Chemical engineering matters and IChemE is building and sustaining an active international professional community, united by a commitment to qualifications and standards that foster excellence and the delivery of benefits to society.

The year closed with IChemE membership up 4% year-on-year, just shy of 38,000 individuals in 120 countries. IChemE now claims more fee-paying members than any other chemical engineering organisation. The UK still tops the membership league table (21,133) with Malaysia in second place (5,020) and Australia in third (3,926). Chartered status remains the gold standard of professionalism, and 2013 saw 460 members elected to this coveted grade. 150 new Fellows were elected in the same period.

Undergraduates are the lifeblood of the profession. The intake to first degree programmes in the UK broke a new record with 2,790 students beginning their studies in September – a figure that's tripled since the *whynotchemeng* campaign was launched in 2001. The campaign received more recognition during the year, being highly commended at the Royal Academy of Engineering's 2013 Rooke Medal presentation.



The mutual recognition agreement signing with the Institution of Engineers Singapore vice president Er. Ong See Ho – pictured left - and IChemE vice-president (qualifications) Colin Webb

Building alliances with global partners continued apace in 2013 with the signing of a mutual recognition agreement with the Institution of Engineers Singapore and a memorandum of understanding with the Institution of Engineers Malaysia. IChemE also joined forces with the American Institute of Chemical Engineers to create a joint working group exploring challenges at the energy-water-food nexus. Chevron Oronite vice president and IChemE past president Desmond King led the debate with an illuminating keynote contribution at the Institute's Annual Meeting in San Francisco. Biochemical engineering received a boost in 2013 with the launch of a new European Society of Biochemical Engineering Sciences, with IChemE providing secretarial support.

A vigorous commitment to diversity in the profession saw IChemE sign up to a new agreement led by the Royal Academy of Engineering. While the Institution's track record in this area is encouraging, with a female student population that is significantly higher than other major engineering disciplines, there is a need to raise the profile of women further along the professional career path and support those who wish to follow in their footsteps.

IChemE's new 'Membership Application Registration System' implemented in 2012 began to reap benefits to membership applications processed in 2013. The new enhanced enquiry handling system realised some major improvements to how peer reviews are conducted, thereby increasing capacity and membership application turnaround performance.



Diversity concordant signing

# Influencing and engaging on behalf of the profession

Chemical engineering matters and IChemE is engaging with others to promote the development, understanding and use of the discipline and the appreciation of its importance.

IChemE is a member-led organisation and the link between the Institution and the individual member is of paramount importance. Nonetheless, IChemE also recognises the need for strong relationships with the corporate community – the main source of employment for a majority of members. The biennial *Salary Survey* reveals that employers pay the subscription fee for more than half of the Institution's membership in some parts of the globe. Thus, employers are key stakeholders in the IChemE community. In 2013, the establishment of industry panels in Australia and the UK provided a new forum for regular dialogue with business leaders. IChemE recognises companies that invest in the chemical engineering talent pipeline by conferring Corporate Partner status to carefully-chosen companies. This year, this roster was expanded with the addition of Atkins, BP, Bechtel, KBR, Qatar Gas and Morgan Sindall.

IChemE continued to work closely with industry to deliver high-quality graduate training via its Accredited Company Training Scheme (ACTS). In 2013, Aker Solutions London, BOC Australia, British Gypsum, EDF Energy, Genesis Oil and Gas, SNC Lavalin and Xodus joined a growing list of more than 70 international companies holding ACTS approval.

*Primary school students from Cedar's Manor School in Harrow UK, meet with senior representatives from Gold Corporate Partner, Bechtel.*



IChemE events provide the ideal platform for engagement with policymakers and opinion formers. The second *Hazards Asia Pacific Symposium* in April drew a high-level delegation from the People's Republic of China, led by the country's director general of hazardous chemicals and work safety supervision, Wang Haoshui. Australia's chief scientist, Ian Chubb, opened *Chemeca 2013* in Brisbane in September. Dow senior vice president Jim McIlvenny, former astronaut and chemical engineer Al Sacco and prominent US energy expert, Eric McFarland were also involved.

In the UK, IChemE past president Ian Shott stepped down from his role as chair of the government's Industrial Biotechnology Leadership Forum after three years of leadership which had drawn widespread praise from the industrial biotechnology community. During the year, IChemE also continued to support the Ashok Kumar Fellowship, which provides a three-month secondment to the UK's Parliamentary Office for Science and Technology. Also in the UK, the Institution signed up to the Engineering for Growth campaign, a new initiative that brings together prominent organisations and individuals in order to demonstrate to government the vital contribution of engineering to economic growth and quality of life.

A royal presence brought a special touch of glamour to the inaugural IChemE Awards ceremony in Malaysia. Her Royal Highness Raja Puan Besar of Perak, Tuanku Zara Salim, brought the traffic to a halt upon her arrival at the Grand Millennium Hotel in Kuala Lumpur, on a night when six awards were presented before an audience of senior figures from the process industries in South East Asia.

*Qatar Gas awarded Gold Corporate Partner status.*



# Providing support and services

Chemical engineering matters and IChemE is providing support and services to individuals, employers and others who further the practice and application of the discipline.



Sivabhalini Thevendiraraj – pictured left – receives one of the first Professional Process Safety Engineer registrations from IChemE Malaysia Chair, BP Chow

IChemE produces a broad range of print and electronic publications, including its monthly news and business magazine, **tce**. Feedback reveals that 80% of members read it on a regular basis, making it one of the most widely-read member publications in process engineering circles. The popular **tce**-branded supplements include the highly successful *Graduate Supplement*, the online version of which included streaming video content for the first time. IChemE embraced the 'open access revolution' in 2013 with unrestricted online access to selected peer-reviewed content in its learned journal collection including *Chemical Engineering Research and Design*. An overhaul of the *Loss Prevention Bulletin* website was also completed in 2013.

A fully-updated suite of the Institution's *Forms of Contract* was launched during the year. This was the result of several years of work by IChemE's contract committee. The revised publications represent the best practice in contracting for the design, construction and testing of process plants. The forms are now available in electronic format for the first time.

IChemE publishes four highly respected journals that rely on the high standards and skills of a dedicated team of over 30 reviewers. Their contributions and commitment to providing professional services and outstanding expertise were recognised in early 2013 at the Annual IChemE Journals Best Reviewers Award in The Hague, Netherlands.

The sad death of the renowned process safety expert, Trevor Kletz, provided an opportunity for many members to reflect on the pivotal role that chemical engineers play in raising safety performance. IChemE launched a new Professional Process Safety Engineer qualification towards the end of 2012. The launch attracted strong global interest from operating companies, contractors, insurers and regulators. We committed additional resource to the qualification process and the first registrations were awarded in June 2013.

To support members' commitment to continuing professional development, IChemE launched the *mycareerpath*, web tool during the year. This provides members with simple online software to record work-based learning, professional activity, formal training or self-directed learning – ultimately creating a concise professional development report. IChemE's own in-house training and events team delivered close to 50 technical and non-technical training courses around the globe, including in-company training in Australia, Malaysia, UK and in the developing markets of Egypt, Ghana and Qatar. Singapore is one of the world's fastest growing chemical hubs and IChemE opened a new office there in March 2013. National boards provide strong local leadership for IChemE activity in many parts of the world, but historically there had been no such provision in the UK. This oversight was corrected in 2013 with the creation of a new UK board, which will liaise with member groups in England, Scotland and Wales and provide a steer for activity in the UK as a whole.

Dr Joëlle Aubin - pictured right - being presented with her top reviewer certificate by Dr Eva Sorensen, editor-in-chief of *Chemical Engineering Research and Design* at the Annual IChemE Journal Reviewers Awards.



## Enabling chemical engineers to interact

Chemical engineering matters and IChemE enables its members to interact and communicate with each other and with other disciplines.

First staged in Manchester, UK in 1960, IChemE's flagship safety conference series, *Hazards*, broke new ground in 2013 with the staging of *Hazards Australasia*. This new addition to the series saw 130 delegates gather in Western Australia's capital, Perth. *Hazards* is now an established rallying point for process safety professionals in Europe, South East Asia and Australasia. The *Human Factors in Health and Safety* programme was also introduced to Australia for the first time during the year. IChemE collaborated successfully with its partners at the Keil Centre to secure near-capacity audiences in Brisbane and Perth.

A vibrant research base is essential to any successful manufacturing economy and the UK chemical engineering community has, since the turn of the millennium, been disadvantaged by the absence of a regular national platform for sharing research experience. This gap was filled in 2013 with the creation of *ChemEngDayUK*. Jointly organised by IChemE and the department of chemical engineering at Imperial College London, the event saw over 200 postgraduate students and senior academics gather for two days of high-quality networking. The second meeting in the series will be staged at The University of Manchester in 2014. IChemE also supported a research pilot by the UK's Engineering and Physical Sciences Research Council. Described as a *Virtual World Congress*, the pilot will benchmark the quality and impact of UK-funded chemical engineering research against international comparators.

The Institution's technical special interest groups (SIGs) provide an accessible route for IChemE members all over the world to get involved in taking the *Chemical Engineering Matters* initiative forwards. IChemE offers 21 SIGs from a diverse range of industry sectors and communities including oil and natural gas, water, food and drink, pharmaceuticals and education. Three new SIGs joined this growing list in 2013: Mining and Minerals, Consultancy, and Alternative and Renewable Energy. These groups will develop and grow via member volunteer engagement, with the support of the IChemE staff team in the years ahead. At the close of 2013, total SIG membership approached 12,000, the most popular choices being Oil and Natural Gas (2,800); Safety & Loss Prevention (1,600) and the new Consultancy group (900).

The historic UK-centric focus of the SIGs continued to change in 2013, with six Australian and Malaysian chapters emerging. The global popularity of online events saw SIG webinar participation increase by 50% year-on-year with over 4,500 delegates from 70 countries taking part in 50 webinars. More than 20 physical events took place in the UK, while eight SIG events took place in Malaysia, including five Oil and Natural Gas, a Safety Loss & Prevention and two inaugural launch events: Biochemical Engineering and Sustainability SIGs. The Pharmaceutical and Water SIGs both held inaugural events in Singapore.



The Hon Bill Marmion MLA, Hazards Australasia



# IChemE medals

<b>Council medal</b>	David Platts, PDV Consultants, New Zealand	<b>Senior Moulton medal</b>	Andrea Cipollina, Giorgio Micale, Maria Grazia di Sparti, and Alessandro Tamburini, University of Palermo, Italy
<b>Arnold Greene medal</b>	Keith Batchelor, Nuffield Court Consultancy, UK	<b>Junior Moulton medal</b>	Arnaud Bizard, Siemens Metals Technologies, Austria
<b>Nicklin medal</b>	Queens University Belfast, UK, and PETRONAS, Malaysia	<b>Warner medal</b>	Valeska Ting, University of Bath, UK
<b>Macnab-Lacey prize</b>	Monash University, Australia	<b>Ambassador prize</b>	Jarka Glassey, Newcastle University, UK
<b>Hanson medal</b>	Nick Hallale, Jacobs Consultancy, UK	<b>Chemeca medal</b>	Greg Lewin AM, chairman, World Chemical Engineering Council
<b>Hutchison medal</b>	Phillip Williamson, University of Anglia (UK) et al		

Visit <http://bit.ly/MHIX3S> for more detailed information about these prizes.



Senior Moulton Medal winners from the University of Palermo, Italy (L-R) Giorgio Micale, Alessandro Tamburini, Maria Grazia Di Sparti, and Andrea Cipollina



Dr Valeska Ting – Sir Frederick Warner medal recipient



Malaysian Awards - Royal guest of honour, HRH Raja Puan Besar of Perak Tuanku Zara Salim, D.K.S.A, D.K.A – pictured left- presents Mohd Fauzi Abidin his Innovator of the Year award while IChemE Malaysia Chair, Chow Boon Ping –centre- looks on.

Visit <http://bit.ly/1lu0sTv> to read the full round-up of award winners.

# IChemE awards

## Award for Outstanding Achievement in Chemical and Process Engineering

The Queen's University Ionic Liquid Laboratories Research Centre (QUILL), UK, in partnership with PETRONAS, Malaysia, took the top award for a new technology which removes toxic mercury from natural gas more efficiently

Visit <http://bit.ly/1prf9XK> to view the full round-up and winners list.

## Singapore

The National University of Singapore, Ngee Ann Polytechnic and Shell Eastern Petroleum picked up some of the major awards at the IChemE Awards in Singapore.

Visit <http://bit.ly/NOUHHe> to view the full round-up and winners list

## Malaysia

The Universiti Teknologi Malaysia and PETRONAS received two major awards at the inaugural IChemE Awards in Malaysia – the Education and Training Award and the Petrochemical Processing Award  
Visit <http://bit.ly/1dx9MxZ> to view the full round-up and winners list.

## North America

Baker Risk was presented with the Safety Award, in recognition of its contribution to process safety over three decades.

The University of Illinois at Urbana Champaign's assistant professor, Andrew Ferguson, received the Young Chemical Engineer of the Year Award in recognition of his impressive work on thermodynamic modelling for the development of HIV vaccines.

# Financial results

Total income for the year from unrestricted funds was £7.4m (2012: £6.8) and IChemE closed the year ahead of budget generating net incoming resources of £463,000 (2012: £228,000). An additional £66,000 was received from the Andrew Legacy estate and has been recognised within restricted funds.

Membership exceeded 38,000 for the first time in 2013 with membership income and accreditation fees seeing a modest increase to £3.1m (2012: £2.9m).

The training activity saw a further year of significant growth, particularly in Australia with the launch of the human factors series, with income up to £2.1m (2012: £1.6m).

The Institution's wholly owned trading subsidiary IChemE Ltd achieved an operating surplus of £439,000 (2012: £373,000) which has been gift aided to the Institution.

## Balance sheets at 31 December 2013

	Group		Institution	
	2013 £000	2012 £000	2013 £000	2012 £000
<b>Fixed assets</b>				
Tangible assets	1,478	1,502	1,478	1,502
Investments	6,375	5,902	6,375	5,902
	<b>7,853</b>	7,404	<b>7,853</b>	7,404
<b>Current assets</b>				
Debtors	1,474	1,444	1,460	1,540
Short term cash investment	-	750	-	750
Cash at bank and in hand	2,731	1,343	2,688	1,317
	<b>4,205</b>	3,537	<b>4,148</b>	3,607
<b>Creditors:</b>				
Amounts falling due within one year	(3,069)	(2,628)	(3,023)	(2,604)
<b>Net current assets</b>	<b>1,136</b>	909	<b>1,125</b>	1,003
<b>Total net assets before pension deficit</b>	<b>8,989</b>	8,313	<b>8,978</b>	8,407
<b>Pension scheme funding deficit</b>	<b>(2,084)</b>	(2,377)	<b>(2,084)</b>	(2,377)
<b>Total net assets after pension deficit</b>	<b>6,905</b>	5,936	<b>6,894</b>	6,030
<b>Income funds</b>				
Fixed asset reserves	1,478	1,502	1,478	1,502
Free reserves	5,584	5,009	5,573	5,103
Pension reserves	(2,084)	(2,377)	(2,084)	(2,377)
<b>Unrestricted funds</b>	<b>4,978</b>	4,134	<b>4,967</b>	4,228
<b>Restricted income funds</b>	<b>1,927</b>	1,802	<b>1,927</b>	1,802
	<b>6,905</b>	5,936	<b>6,894</b>	6,030

## The results relate to the continuing activities of the Institution

### Council's statement on the summarised financial statements

These summarised financial statements are a summary of information extracted from the statutory Council's report and consolidated financial statements. They may not contain sufficient information to allow for a full understanding of the financial affairs of the Institution. For further information, the full consolidated financial statements, the auditors' report on those consolidated financial statements and the Council's report should be consulted. Copies of these can be obtained from the finance department at IChemE's headquarters in Rugby by email: [jdownham@icheme.org](mailto:jdownham@icheme.org)

The consolidated financial statements were approved on 19 April 2014 and will be delivered in due course to the Charity Commission. The consolidated financial statements have been audited by a qualified auditor, BDO LLP, which gave an audit

opinion that was unqualified and did not include a statement required under regulation 6 (2) (f) of The Charities (Accounts and Reports) Regulations 1995.

On behalf of the Council



Judith Hackitt  
President



Andrew Jamieson  
Honorary treasurer

Independent Auditors' statement to the Trustees of the Institution of Chemical Engineers

We have examined the summary financial statements for the year ended 31 December 2013 set out on pages 10 to 11.

	2013			2012		
	Unrestricted funds	Restricted funds	Total	Unrestricted funds	Restricted funds	Total
	£000	£000	£000	£000	£000	£000
<b>INCOMING RESOURCES</b>						
<b>Incoming resources from generated funds:</b>						
Donations & legacies	69	66	135	64	258	322
<b>Activities for generating funds</b>						
Trading income	641	-	641	670	-	670
Investment income	110	27	137	96	7	103
<b>Incoming resources from charitable activities:</b>						
Build & sustain an active international community	3,087	-	3,087	2,903	-	2,903
Engage with others to promote chemical engineering	248	-	248	247	-	247
Provide support & services to others	2,095	-	2,095	1,626	-	1,626
Enable chemical engineers to interact & communicate	1,109	-	1,109	1,185	-	1,185
Technical centres	-	229	229	-	249	249
<b>Total incoming resources</b>	<b>7,359</b>	<b>322</b>	<b>7,681</b>	<b>6,791</b>	<b>514</b>	<b>7,305</b>
<b>RESOURCES EXPENDED</b>						
<b>Costs of generating funds:</b>						
Trading activities	(162)	-	(162)	(187)	-	(187)
<b>Charitable activities:</b>						
Build & sustain an active international community	(2,048)	-	(2,048)	(1,982)	-	(1,982)
Engage with others to promote chemical engineering	(843)	-	(843)	(867)	-	(867)
Provide support & services to others	(2,006)	-	(2,006)	(1,671)	-	(1,671)
Enable chemical engineers to interact & communicate	(1,802)	-	(1,802)	(1,825)	-	(1,825)
Technical centres	-	(260)	(260)	-	(230)	(230)
Andrew Legacy	-	(2)	(2)	-	-	-
<b>Governance costs:</b>	<b>(35)</b>	<b>-</b>	<b>(35)</b>	<b>(31)</b>	<b>-</b>	<b>(31)</b>
	<b>(6,734)</b>	<b>(262)</b>	<b>(6,996)</b>	<b>(6,376)</b>	<b>(230)</b>	<b>(6,606)</b>
<b>Total resources expended</b>	<b>(6,896)</b>	<b>(262)</b>	<b>(7,158)</b>	<b>(6,563)</b>	<b>(230)</b>	<b>(6,793)</b>
<b>Net incoming resources</b>	<b>463</b>	<b>60</b>	<b>523</b>	<b>228</b>	<b>284</b>	<b>512</b>
Net (losses)/gains on investment assets	271	65	336	175	40	215
Pension scheme actuarial (losses)/gains	110	-	110	(891)	-	(891)
<b>Net movement in funds</b>	<b>844</b>	<b>125</b>	<b>969</b>	<b>(488)</b>	<b>324</b>	<b>(164)</b>
Fund balances brought forward at 1 January	4,134	1,802	5,936	4,622	1,478	6,100
<b>Fund balances carried forward at 31 December</b>	<b>4,978</b>	<b>1,927</b>	<b>6,905</b>	<b>4,134</b>	<b>1,802</b>	<b>5,936</b>

#### Respective responsibilities of trustees and auditor

The trustees are responsible for preparing the Annual Review in accordance with applicable United Kingdom law.

Our responsibility is to report to you our opinion on the consistency of the summary financial statement within the summarised Annual Review with the full annual financial statements and the Trustees' Report.

We also read the other information contained in the summarised Annual Review and consider the implications for our report if we become aware of any apparent misstatements or material inconsistencies with the summary financial statement. The other information comprises only the chief executive's statement and the Review of Activities.

Our report has been prepared pursuant to the requirements of the Charities SORP and for no other purpose. No person is entitled to rely on this report unless such a person is a person entitled to rely upon this report by virtue of and for the purpose of the terms of our engagement letter dated 19 January 2011 or has been expressly authorised to do so by our prior written consent. Save as above, we do not accept responsibility for this report to any other person or for any other purpose and we hereby expressly disclaim any and all such liability.

#### Basis of opinion

We conducted our work in accordance with Bulletin 2008/3 'The auditors' statement on summary financial statement in the United Kingdom' issued by the Financial Reporting Council. Our report on the charity's full annual financial statements describes the basis of our opinion on those financial statements and on the Trustees' Report.

#### Opinion

In our opinion the summary financial statement is consistent with the full annual financial statements and the Trustees' Report of the Institution of Chemical Engineers for the year ended 31 December 2013.

#### BDO LLP Statutory auditor

Birmingham, UK

19 April 2014

BDO LLP is a limited liability partnership and is registered in England and Wales (with registered number OC305127)



## IChemE offices

### Global headquarters

#### UK – Rugby

Tel: +44 (0) 1788 578214

Email: [info@icheme.org](mailto:info@icheme.org)

#### Australia

Tel: +61 (0) 3 9642 4494

Email: [austmembers@icheme.org](mailto:austmembers@icheme.org)

#### Malaysia

Tel: +603 2166 0822

Email: [malaysianmembers@icheme.org](mailto:malaysianmembers@icheme.org)

#### New Zealand

Tel: +64 (4) 473 4398

Email: [nzmembers@icheme.org](mailto:nzmembers@icheme.org)

#### Singapore

Tel: +65 6471 5043

Email: [singaporemembers@icheme.org](mailto:singaporemembers@icheme.org)

#### UK – London

Tel: +44 (0) 20 7927 8200

Email: [info@icheme.org](mailto:info@icheme.org)

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