



# Annual review 2008

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



*Council medal winner, David Wood, Frank Morton lecturer, Grant Campbell, and ChemEng08 speaker, Rachel Cooke*

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“ChemEng08 gave chemical engineers the opportunity to illustrate and discuss how we can address future challenges.”

Rachel Cooke, Process engineering manager, Cadbury, UK.



# The President's message

## Wealth, well-being and the global context

Last year, turbulent financial markets caused widespread uncertainty in both developed and developing economies. The collapse of some financial institutions has led to credit restrictions, tightening budgets, a loss of consumer confidence and rising unemployment.

These difficulties are being experienced by people all over the world and our members are included. It reminds us how closely interlinked our economies and societies have become, and that a stable financial environment is as important to the wealth and well-being of the world's population as a sustainable physical environment.

IChemE is not immune from these difficulties and depends heavily upon its trading income. Nonetheless, our governing Council remains committed to the highest standards of stewardship, as required of a charitable body, and this demands prudent financial management. I look to all members to support our Institution in this challenging business environment.

Chemical engineers can make a key contribution to wealth creation – a message IChemE continues to promote. We are trained to innovate, engineer and operate processes to make essential products, and the benefits of our work surround us in day-to-day life.

IChemE launched a new subject group last year – Business Innovation and Leadership – to add focus to this vital aspect of our profession. The group is part of an impressive range of subject groups, branches and other Institution activities dedicated to manufacturing and product engineering.

But there is another area in which chemical engineers are making an increasingly important contribution – providing services of direct benefit to well-being – working in health and safety, insurance and risk assessment, education, environmental protection and sustainability, and healthcare.

IChemE promotes this too: another highlight from last year – the launch of *The vital ingredient – chemical science and engineering for sustainable food*, a report produced jointly with the Royal Society of Chemistry. This spelled out the implications of increasing food production to meet growing demand – 30% more grain and 80% more meat will be needed by 2030 according to World Bank estimates. Do read the report – the challenges of sustainable food production deserve to be more widely appreciated.

This global context is also reflected in the way the Institution operates. Council meetings now invariably link up our offices in the UK, Malaysia and Australia, for colleagues to discuss and agree on IChemE business. We are also developing closer relationships in Singapore, India and China, as part of our plan to grow a vibrant global Institution.

At the 12th APCCChE (Asia Pacific Confederation of Chemical Engineers) meeting in Dalian, China, in August, we were able to take some of these discussions further, and move closer to establishing a Chinese IChemE office. The accreditation in December 2008 of a degree programme in chemical engineering at Tianjin University is greatly welcomed and a credit to the academic leaders and others who made it possible: it is a sign of a warm and developing relationship that all of us value highly.

Another friendship that we celebrated in 2008 involved our American cousins, as the AIChE (American Institute of Chemical Engineers) reached its 100th birthday. I was privileged to be invited with other international guests to attend the centenary meeting in November in Philadelphia, which was both hugely enjoyable and a reminder of the technical breadth and strength of US chemical engineering.

With a new administration now in Washington, with very different ideas on global sustainability, I believe we will be challenged to engage in a new dialogue about topics like energy, global warming, food and water.

For whatever routes are taken to improve financial stability, the larger and longer concerns about sustainable development remain to be tackled.

The cover of this review reminds us of the importance of our debates and actions - these will determine which of the futures illustrated on the cover will become reality.

It has been a great honour to have been president for this fascinating year of change and achievement. I have been wonderfully supported by colleagues and IChemE staff, and am most grateful to all of you. The ingenuity, expertise and enthusiasm in our chemical engineering community continue to be a real inspiration, and are immensely promising for our future wealth and well-being.



Professor Richard Darton

IChemE president 2008–2009

"The ingenuity, expertise and enthusiasm in our chemical engineering community are a real inspiration."

Richard Darton, IChemE president 2008–09



# An international institution

## Record membership

IChemE closed 2008 with a record 28,748 members. The IChemE community is becoming increasingly internationalised. Year-on-year growth in the UK stood at 1% while other membership increased by 9%. IChemE welcomed over 400 new members in Malaysia in 2008, making it IChemE's fastest growing region. In Australia, membership increased by 11% to over 2,700 members.

In 2008, over 300 members achieved Chartered status and 142 new Fellows were admitted.

## Rewarding success

Sue Ion, past vice-president of the Royal Academy of Engineering and former group director of technology for British Nuclear Fuels, was awarded Honorary Fellowship of IChemE in 2008 in recognition of her outstanding contribution to the engineering profession and in particular to the nuclear sector.

Sir Nicholas Stern and Sir David King, Honorary Fellows of 2006 and 2007 respectively, were presented with their Fellowship certificates at the Institution's annual Council dinner in May by 2007-08 IChemE president, Ramesh Mashelkar.

In December, Tianjin University's Bachelor of Engineering (BEng) degree programme was accredited by IChemE – the Institution's first accredited degree course in China. IChemE now accredits courses in 13 countries. The move followed the finalisation of plans to open a new IChemE office in Shanghai.

## Securing the supply

Chemical engineering departments at UK universities enjoyed another record-breaking year. Over 8500 applications to study the subject were processed and

an all-time high of 1640 students began their studies in September. The number of students currently studying chemeng at UK universities remains an historic high.

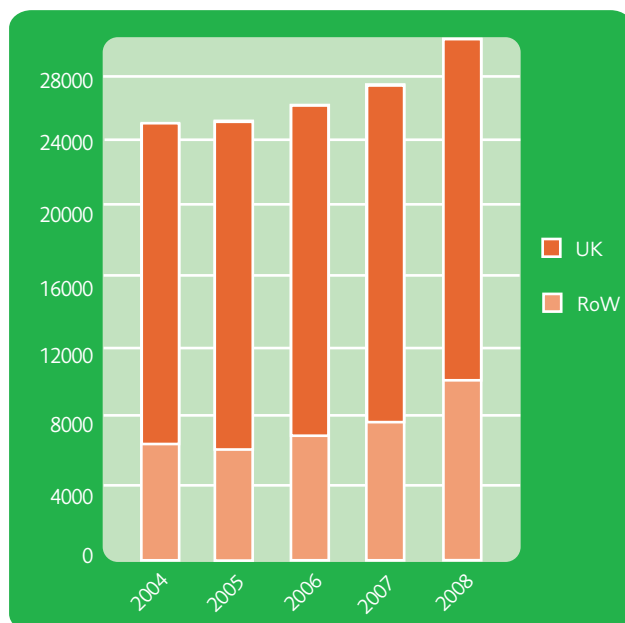
IChemE's school and careers campaign, *whynotchemeng*, has played a central role in the UK chemical engineering renaissance. Last year, *whynotchemeng* volunteers visited nearly 200 UK schools and colleges to talk about the benefits of a career in chemical engineering. Almost half of the 2008 UK chemeng intake was familiar with the *whynotchemeng* brand and one in five said talking to a 'real-life' chemical engineer influenced their decision to study the subject at university. The campaign website, [whynotchemeng.com](http://whynotchemeng.com) received over 130,000 visits in 2008.

The Australian *whynotchemeng*, launched in 2007, now has over 40 members registered as volunteers. Face-to-face and webinar training sessions have been conducted to brief chemical engineers volunteering to visit Australian high schools.

## A profession that pays

IChemE's *Salary survey* was extended to include members in Australia and Malaysia for the first time in 2008. Headline findings reveal the median annual salary for UK and Ireland chemical engineers is £47,000 with Chartered professionals typically pocketing an additional £10,500. In Australia, the median salary for chemical engineers is A\$110,000 with Chartered members earning on average a further A\$40,000.

Graduate chemical engineers in both the UK and Australia are enjoying competitive starting salaries. The survey shows graduate chemical engineers in the UK earn a median starting salary of £26,000. In Australia, graduate chemengers receive an average annual salary of A\$56,500.



## Membership growth 2004–2008

*IChemE membership continues to increase steadily. 34% of members are now based outside the UK.*

"IChemE accreditation helps our programme meet the challenge of globalisation and the challenges of the post-industrialised society."

Professor Ke Gong, president, Tianjin University, China.



Ke Gong discusses education and skills at ChemEng08

# Rolling out the roadmap

## Technical strategy progress

2008 marked the first full year of activities building upon IChemE's *Technical strategy: a roadmap for 21st century chemical engineering*.

In October, IChemE published *Driving in the right direction*, a progress report on the roadmap activities that have already been started or completed. The original roadmap identified 61 projects and technical events to support its implementation. That list has since grown to 93 initiatives, led by IChemE's subject and regional groups often working in partnership with other stakeholders.

## 2008 highlights

**Sustainability and sustainable chemical technology:** IChemE CEO, David Brown, was appointed chair of SusChem UK, the UK platform of a Europe-wide network dedicated to sustainable chemistry and chemical engineering. Members of IChemE's Sustainability Subject Group also gave evidence to the UK House of Lords Science and Technology Committee as part of continuing efforts to implement sustainable approaches to waste reduction.

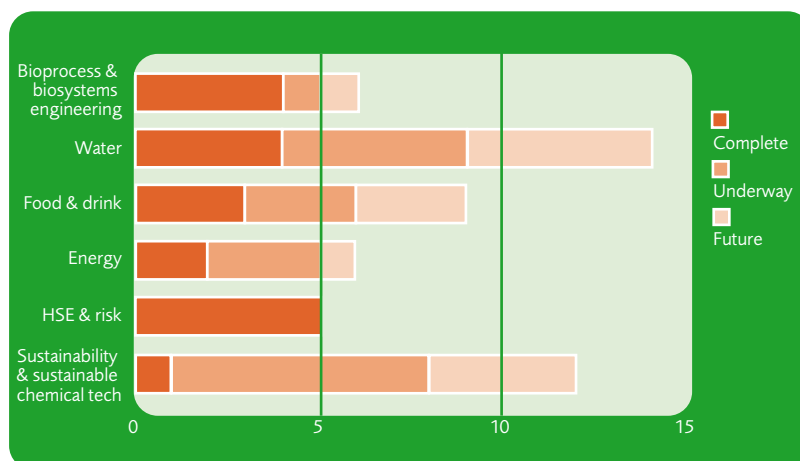
**Health, safety, environment and public perception of risk:** IChemE reviewed and updated its safety training, incorporating greater emphasis on risk and human factors. In April 2008, more than 340 delegates were in Manchester, UK for *Hazards XX – process safety and environmental protection*. Headline speakers included celebrated safety guru Trevor Kletz, the UK Environment Agency's director of environmental protection Tricia Henton, and Shell Global Solutions' Geoff Chamberlain. In Australia, safety training in the form of HAZOP study for team leaders and team members was successfully rolled out. Further training in safety and other subjects is currently being reviewed.

**Energy:** IChemE subject groups staged seminars looking at pre and post combustion technology options for CO<sub>2</sub> capture from fossil fuels. IChemE's Energy Conversion Technology Subject Group compiled a *Biofuels compendium*, disseminating key information from leading studies on biofuels. In June, following a technical and consultative process managed by Australian member groups, IChemE published *The start of the road: energy and chemical engineering*, a green paper outlining the challenges of energy supply.

**Food and drink:** IChemE's Food & Drink Subject Group worked with the Royal Society of Chemistry on a joint project examining sustainable food production. Evidence was submitted to UK government consultations on policy and research funding of science in food production and agriculture, and funding organisations pressing for food industry research. IChemE continues to publish its quarterly research journal, *Food and bioproducts processing*.

**Bioprocess and biosystems engineering:** IChemE's Biochemical Engineering and Pharma Subject Groups staged technical events on pollution abatement, sustainable processing and innovation within the bioprocess sector. Joint technical meetings were also staged in partnership with the Society for General Microbiology, Institution of Mechanical Engineers and International Society for Pharmaceutical Engineering.

**Water:** Australian members published *The start of the road: sustainable metropolitan water systems*, a green paper assessing the challenge of providing sustainable water systems for major metropolitan areas. IChemE members presented evidence to the UK Council for Science and Technology Water Group as part of an ongoing review into the UK water industry. IChemE's Water Subject Group continued to champion sustainable water usage through its sponsorship of the IChemE Water Award, won by Arvia Technology.



## Roadmap projects 2008

14 Roadmap initiated projects were completed in 2008 with a further 24 in progress, driven by IChemE subject and regional groups. For a more detailed report into Roadmap activities, see IChemE's Roadmap progress report, *Driving in the right direction*.

“The Roadmap defines IChemE’s position on key issues and provides direction for the short, medium and long-term development of the Institution.”

Nigel Perry, IChemE technical vice president



*Nigel Perry at IChemE's 2008 Council dinner*

# Platforms for learning

## Making history

In October, IChemE staged an ambitious new event, *ChemEng08*. The three-day meeting, held in Birmingham, UK, attracted 1500 delegates and speakers from 24 countries, covering all aspects of chemical, process and biochemical engineering.

The event began with an afternoon of science and engineering activities for school and college students with former US astronaut Al Sacco Jnr pulling in the crowds.

Highlights of the main programme included a panel discussion on the challenges and opportunities of globalisation, chaired by the economics editor of the UK's *Sunday Times*, David Smith, and busy parallel sessions dedicated to each of IChemE's technical strategy themes. The Global Forum debate saw delegates vote by 2:1 in favour of the view that chemical engineering needs more innovation and less regulation. Elsewhere visitors enjoyed a diverse exhibition of products and services for chemical engineers.

## Recognising innovation and excellence

On the second night of *ChemEng08*, IChemE staged its annual Awards for Innovation and Excellence. The event was hosted by star of BBC television's *Red Dwarf* and *The Brittas Empire*, Chris Barrie.

The night's big award, the Entec Medal, was presented to Huntsman Pigments Division, UK, while Steven Stanley (National Nuclear Laboratory, UK) and Abdul Latif (Universiti Sains Malaysia) won the top individual honours at the event. Stanley clinched the GSK Young Engineer of the Year and Latif, the NES Novel Engineering Solutions Award.

Bengal Engineering and Science University, India and Lehigh University, USA were the inaugural winners of

the Dhirubhai Ambani Award for outstanding chemical engineering innovation for resource-poor people. This new award recognises chemical engineering technology that supports people living on less than \$2 a day.

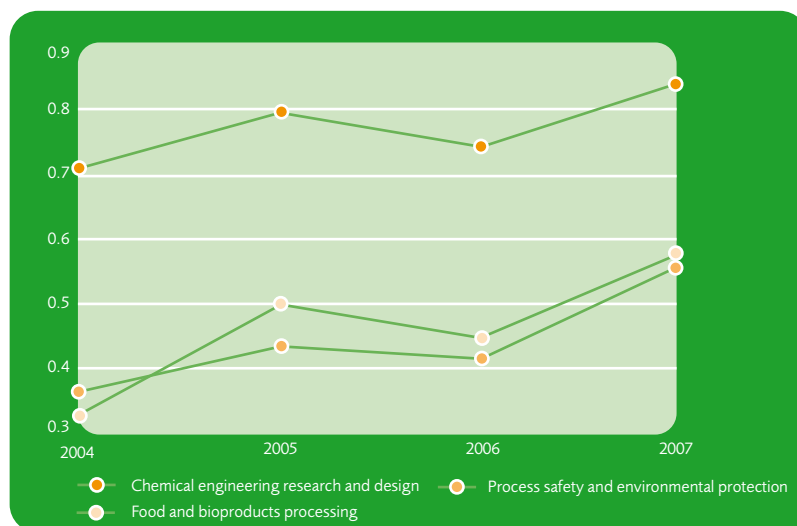
## Something for everybody

IChemE subject groups remain in good health, staging over 50 meetings and events in 2008. While the majority took place in the UK, seminars were also held in Australia and initial efforts at webcasting by the Fluid Separations, Process Management and Control, and Oil and Natural Gas Subject Groups proved successful. IChemE also relaunched its Catalysis Subject Group in 2008, and a new Business Innovation and Leadership Subject Group emerged in October.

Impact factors for all three IChemE journals included in the annual Thompson ISI measurement index increased in 2008. Last year also marked the first year of the Institution's journal publishing partnership with Elsevier.

Now universally recognised by its short title, 'tce', *The Chemical Engineer* remains a valuable resource for IChemE members. Market research revealed that eight out of ten members are regular readers. 2008 tce highlights included a future energy review, exploring the potential and reality of tomorrow's energy sources and an investigation into accusations that the US nuclear regulators were ignoring safe construction practice and covering up independent guidance at a hazardous nuclear processing facility.

IChemE's portfolio of training and short courses enjoyed another successful year. 19 courses took place in 2008, alongside a further 34 in-company courses. Two new courses were added to IChemE's programme: *Fundamentals of process safety* and *HAZOP: leadership and management (Malaysia)*. Courses were staged in the UK, Malaysia, USA, Egypt and Denmark.



## Journal impact factors 2004–2007

Impact factors help academic institutions assess the quality of research journals and are measured by dividing the number of times articles published in a particular journal are cited over a two year period by the total number of papers published in the journal throughout the same period.

"A slick, focused ceremony...the IChemE awards dinner was a huge success."

Seb Proctor, Chief process engineer, Sellafield, UK.



*Seb Proctor presents the Sellafield Engineering Excellence Award to Shell Global Solutions at the 2008 IChemE awards dinner*

# Beyond the chemical engineering community

## International outreach

In February, IChemE signed a Memorandum of Understanding with the Chemical Industries Council of Malaysia. The memorandum cements links between members of both organisations professionally, commercially and socially.

Inspired by the signing of a similar agreement with the Indian Institute of Chemical Engineering (IICHE) in 2007, IChemE and the IICHE worked together in 2008 on Exchange 08 – a scheme designed to give chemical engineering students and young professionals in India and the UK a chance to experience life and chemical engineering abroad.

In July, Colin Webb, Chair of IChemE's Accreditation Committee, and Neil Atkinson, IChemE Qualifications and International Development Director, were awarded Mumbai University Institute of Chemical Technology's (UICIT) first visiting Fellowships. Webb was presented with the Professor BD Tilak Visiting Fellowship, whilst Atkinson received the Golden Jubilee Visiting Fellowship.

In September, IChemE worked with Engineers Australia, The Royal Australian Chemical Institute Incorporated and The Society of Chemical Engineers New Zealand to co-host *Chemeca 2008* in Newcastle, Australia. The event attracted over 380 delegates with IChemE president, Richard Darton, a keynote speaker.

## Working with others

Professor Darton also took centre stage in Westminster alongside UK Finance Minister, Angela Eagle MP, at the Parliamentary Group for Energy Studies' summer party in July. Darton set out a chemical engineers' perspective on sustainability and future energy demand to an appreciative audience of parliamentarians and decision makers.

In September, IChemE took its *Forms of contract* suite to India. Working alongside the Indian Chemicals Council, IChemE staged two contract user seminars in Mumbai and Delhi, led by Gordon Bateman, chair of the *Forms of contract* working party. The seminars coincided with the launch of a new *Forms of contract user guide* to support IChemE's international contract users.

IChemE's publishing agreement with BP grew beyond books in 2008. In September, the Institution worked with the company to publish a new series of animations highlighting lessons learned from major process safety incidents. The animations can be used as standalone training modules or as supplementary material for safety courses.

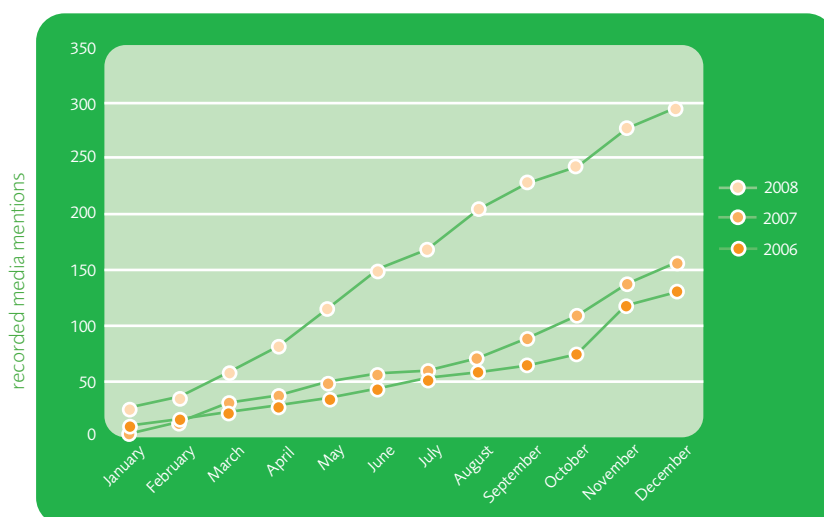
## Spreading the message

IChemE continued to raise the profile of chemical engineering and highlight the expertise and the public benefits that the profession delivers in 2008.

IChemE CEO, David Brown appeared across the UK national media including *The Sunday Times*, *The Financial Times* and *BBC Radio*. Brown discussed a range of topics including the need for greater investment in science teaching, the importance of coal and the need for carbon capture and storage technology, and why more chemical engineers will be required to meet the UK's nuclear ambitions.

IChemE's Frank Morton lecture, *Bread, bubbles and biofuels* was featured in the UK's *Daily Telegraph* in May. The University of Manchester's Grant Campbell delivered the lecture and revealed the secret behind the perfect sandwich...bubbles in the bread.

Other IChemE spokespeople to appear in mainstream media outlets last year include Director of policy and communication Andrew Furlong, *tce* editor Claudia Flavell-White, and ChemEnvoys Keith Plumb and Miles Seaman.



## Media coverage 2006–2008

Recorded media mentions of IChemE continued to rise in 2008. Improved coverage online, in the trade press and the mainstream media has helped raise the profile of IChemE and chemical engineers.

"I will always look at this exchange programme as one which has inspired me."

Shah Rahul Uday, Exchange 08 participant



Exchange 08 visitors Subramaniam Krishnamoorthy, Shah Rahul Uday and Nayan Goswami

# The Chief Executive's report

*"No Institution which does not continually test its ideals, techniques and measure of accomplishment can claim real vitality."*

John Milton, the 17th century English poet best known for the epic *Paradise lost* wrote those words over three hundred years ago. Milton hadn't heard of chemical engineering, but his line is one that IChemE thoroughly endorses today.

Over the couple of years that I've been at IChemE, we've worked to ensure robust and challenging objectives are incorporated into our work. Our rolling three-year business plan ensures we maintain a consistent direction and continually evaluate our progress.

In this year's **Annual review**, I hope you've spotted the illustrations we've used to chart our progress. We wanted not just to tell you that we are an international professional community that's growing in size, impact and breadth, but to show you the progress we've made. IChemE's member groups and staff continue to ensure the Institution 'punches above its weight', working towards measurable goals wherever possible.

So what do these measures of accomplishment tell us about 2008 and what can we expect in 2009?

Last year was a good one for IChemE: a record level of membership; more students studying chemical engineering at UK universities than ever before; our international operations moving forward with pace; new subject groups initiated; and all of this underpinned by a modest operating surplus.

We've invested in improved IT systems, extended the training and professional development we offer, and influenced policy in areas ranging from research funding to the international mobility of engineers.

2009 and beyond will be difficult: like just about everybody else, we will be affected by the economic downturn in 2009 but we know that chemical, process and biochemical engineers are still in demand and, just as importantly, will be vital when the upturn comes.

Smart employers recognise that now is the time to invest in their staff, retain key skills and provide training to establish new ones. We will support companies in doing these things; we will work with universities and funding agencies to ensure new engineers' skills are well matched to business needs; and we will help our members ensure they remain highly valued, highly employable and well placed to meet the economic, environmental and other challenges of the future.

To that end, we will continue to help our members build, maintain and benefit from networks of professional contacts. Our member networks – whether they are regional or subject specific – are becoming increasingly more active, international and relevant. As our membership becomes more diverse, we will ensure geography doesn't restrict members from participating in IChemE activities and that our subject groups continue to evolve into fully effective international knowledge-transfer networks.

We're already working hard to ensure members right across IChemE's international community have access to the training, services, events and support that we provide.

Aided by continued IT improvements, our membership application process will be made simpler and more user-friendly, whether that's for new members or those working towards Chartered or Fellow status. Our Groups online initiative will allow our member groups to communicate more easily and support the international dimension of their activities.

We will encourage a wider range of professionals to join IChemE, enabling them to benefit from our services and extending our network of knowledge and expertise. Industrial biotechnology, food and drink, and cleaner energy are key growth areas for us, with the life sciences playing a central part. We will encourage colleagues who are not themselves chemical engineers to become IChemE Affiliates.

There are challenges ahead but we're well placed to face them and to be what IChemE members expect us to be – a forward-looking, innovative, efficient and effective professional organisation.



David Brown  
Chief executive

chiefexec@icheme.org

“There are challenges ahead but we’re well placed to face them.”

David Brown, IChemE Chief executive



# Financial results

Despite the difficult economic climate during the second half of the year, IChemE came in ahead of budget as a result of tightened control over expenditure, deferral of projects to 2009, and a sustained growth in membership.

IChemE staged training courses in Australia for the first time in 2008, as well as updating its portfolio of safety products. Both are considered growth areas for IChemE in the coming years.

Net incoming resources from unrestricted funds totalled £258,000 (2007: £327,000).

The level of reserves at year end has been adversely affected by the continued fall in the stock market during 2008, resulting in an unrealised loss of £723,000 (2007: £30,000).

Council believe that the notional pension-funding balance of £nil (2007: funding deficit £987,000) calculated under FRS 17, has no material effect on IChemE's cashflows in the short term, and in the longer term its effects are sustainable out of future income.

## Balance sheets at 31 December 2008

	Group		Institution	
	2008 £000	2007 £000	2008 £000	2007 £000
<b>Fixed assets</b>				
Tangible assets	1,687	1,827	1,687	1,827
Investments	3,303	3,910	3,303	3,910
	4,990	5,737	4,990	5,737
<b>Current assets</b>				
Debtors	891	808	802	793
Short term cash investment	500	-	500	-
Cash at bank and in hand	1,232	1,432	1,223	1,285
	2,623	2,240	2,525	2,078
<b>Creditors:</b>				
Amounts falling due within one year	(1,922)	(1,627)	(1,824)	(1,465)
<b>Net current assets</b>	701	613	701	613
<b>Total net assets before pension deficit</b>	5,691	6,350	5,691	6,350
<b>Pension scheme funding deficit</b>	-	(987)	-	(987)
<b>Total net assets after pension deficit</b>	5,691	5,363	5,691	5,363
<b>Income funds</b>				
Free reserves	5,244	5,920	5,244	5,920
Pension reserves	-	(987)	-	(987)
Unrestricted funds	5,244	4,933	5,244	4,933
<b>Restricted income funds</b>	447	430	447	430
	5,691	5,363	5,691	5,363



## Consolidated statement of financial activities for the year ended 31 December 2008

	2008			2007		
	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	-	56	56	-	52	52
<b>Activities for generating funds</b>						
Trading income	1,284	-	1,284	1,088	-	1,088
Investment income	116	1	117	164	2	166
<b>Incoming resources from charitable activities:</b>						
Membership and accreditation	2,179	-	2,179	1,953	-	1,953
Publishing and information services	922	-	922	1,059	-	1,059
Events and training products	812	-	812	1,121	-	1,121
Networks	298	-	298	226	-	226
Technical centres	-	315	315	216	-	216
<b>Total incoming resources</b>	<b>5,611</b>	<b>372</b>	<b>5,983</b>	<b>5,827</b>	<b>54</b>	<b>5,881</b>
<b>RESOURCES EXPENDED</b>						
<b>Costs of generating funds:</b>						
Trading activities	(298)	-	(298)	(278)	-	(278)
<b>Charitable activities:</b>						
Membership and accreditation	(1,217)	-	(1,217)	(1,173)	-	(1,173)
Publishing and information services	(1,445)	-	(1,445)	(1,719)	-	(1,719)
Events and training products	(1,138)	-	(1,138)	(916)	-	(916)
Networks	(792)	-	(792)	(728)	-	(728)
Policy and influence	(302)	(184)	(486)	(326)	(168)	(494)
Technical centres	-	(297)	(297)	176	-	176
<b>Governance costs:</b>	<b>(35)</b>	<b>-</b>	<b>(35)</b>	<b>(29)</b>	<b>-</b>	<b>(29)</b>
	<b>(4,929)</b>	<b>(481)</b>	<b>(5,410)</b>	<b>(4,715)</b>	<b>(168)</b>	<b>(4,883)</b>
<b>Total resources expended</b>	<b>(5,227)</b>	<b>(481)</b>	<b>(5,708)</b>	<b>(4,993)</b>	<b>(168)</b>	<b>(5,161)</b>
<b>Net incoming/(outgoing) resources before transfers</b>	<b>384</b>	<b>(109)</b>	<b>275</b>	<b>834</b>	<b>(114)</b>	<b>720</b>
Transfers between funds	(126)	126	-	(507)	507	-
<b>Net incoming/(outgoing) resources</b>	<b>258</b>	<b>17</b>	<b>275</b>	<b>327</b>	<b>393</b>	<b>720</b>
Net (losses)/ gains on investment assets	(723)	-	(723)	(30)	-	(30)
Pension scheme actuarial gains/(losses)	776	-	776	872	-	872
<b>Net movement in funds</b>	<b>311</b>	<b>17</b>	<b>328</b>	<b>1,169</b>	<b>393</b>	<b>1,562</b>
Fund balances brought forward at 1 January	4,933	430	5,363	3,764	37	3,801
<b>Fund balances carried forward at 31 December</b>	<b>5,244</b>	<b>447</b>	<b>5,691</b>	<b>4,933</b>	<b>430</b>	<b>5,363</b>

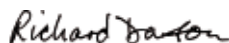
The results relate to the continuing activities of the Institution

### 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 Rugby by email: [jdownham@icheme.org](mailto:jdownham@icheme.org).

The consolidated financial statements were approved on 2 April 2009 and will be delivered in due course to the Charity Commission. The consolidated financial statements have been audited by a qualified auditor, BDO Stoy Hayward LLP, who 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



Professor R Darton  
President



Mr K Batchelor  
Honorary treasurer

Independent Auditors' statement to the Council of the Institution of Chemical Engineers  
We have examined the summarised financial statements of the Council of the Institution of Chemical Engineers.

### Respective responsibilities of trustees and auditors

The Council are responsible for preparing the summarised financial statements in accordance with applicable law.

Our responsibility is to report to you our opinion on the consistency of the summarised financial statements with the full Council's report and consolidated financial statements. We also read the other information contained in the Annual Review and consider the implications for our report if we become aware of any apparent misstatements or material inconsistencies with the summarised financial statements.

Our report has been prepared pursuant to the requirements of the Charities Act 1993 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 Charities Act 1993 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 1999/6 'The auditors' statement on the summary financial statement' issued by the Auditing Practices Board for use in the United Kingdom.

### Opinion

In our opinion the summarised financial statements are consistent with the full Council's report and consolidated financial statements of the Institution of Chemical Engineers for the year ended 31 December 2008.

BDO Stoy Hayward LLP  
Registered auditors  
2 April 2009

# Council members

## Richard Darton

IChemE president  
Head of engineering science, Oxford University, UK

## Ian Shott

IChemE deputy president  
Chairman, Excelsyn Group, UK

## Raghunath Anant Mashelkar

IChemE past president  
Former director general, Council of Scientific and Industrial Research of India, India

## Keith Batchelor

IChemE honorary treasurer  
Director of engineering operations, Foster Wheeler Energy, UK

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## David Bogle (to May 2008)

Head of graduate school, University College London, UK

## Judith Hackitt (from May 2008)

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Director of process engineering, Foster Wheeler Energy, UK

## Rachel Toner

Project manager, Fluor, UK



Ian Shott



Russell Scott



Judith Hackitt

# IChemE 2008 directorate and medal winners

## IChemE 2008 directorate

### David Brown

Chief executive officer

### Jan Althorp

Executive director, IChemE in Australia and Asia Pacific

### Neil Atkinson

Director, qualifications and international development

### Justin Blades

Director, regional networks and membership support

### Andrew Furlong

Director, policy and communication

### Caroline Smith (to September 2008)

Director, publications and resources

## Staff details

The total number of staff based in Australia, Malaysia and the UK at the turn of the year stood at 66. In September 2008, IChemE said farewell to Caroline Smith, Director of publications and resources, after 12 years with the Institution. Pauline Scotton and Kay Fairholm also said goodbye to IChemE following 19 and 14 years respectively. In March, Steve Kennerk celebrated 20 years with IChemE. Steve is the Institution's Senior data management administrator.

## 2008 medal winners

- Mohammed Ali Hashim and David Wood were awarded the Council medal, Hashim for his sterling work in the Malaysian IChemE branch and Wood for his sustained and invaluable efforts in China, particularly in relation to Tianjin University.
- Richard Wakeman received the Arnold Greene medal for his work in connection with IChemE's journals as executive editor.
- David Reay, Colin Ramshaw and Adam P Harvey were awarded the Brennan medal for their publication, *Process intensification: engineering for efficiency, sustainability and flexibility*, first edition.
- Frank Crawley was awarded the Franklin medal in recognition of his excellence in the education of undergraduates and others in safety and loss prevention over many years. This recipient of this award is nominated by IChemE's Safety and Loss Prevention Subject Group.
- Peter Rogers received the Hanson medal for his article 'Generation gap' published in *tce* (September 2008).
- Nicholas JL Gardener was awarded the Hutchison medal for his paper "Business continuity and link to insurance a pragmatic approach to mitigate principal risks and uncertainties", presented at *Hazards XX* in April 2008.
- Dimitri Mignard and Colin L Pritchard received the Moulton medal for their paper 'On the use of electrolytic hydrogen from variable renewable energies for the enhanced conversion of biomass to fuels', published in *Chemical engineering research and design* (May 2008).
- Stuart R McGill was awarded the Chemeca medal, the most prestigious chemical engineering award in Australia and New Zealand, for his outstanding contribution to the profession.
- Mohamed Al-Rubeai received the Donald Medal for his contributions to the understanding of mammalian cell culture and the education of students in the area.

At ChemEng08, Russell Scott, Chairman of IChemE's Australian board, introduced the Nicklin medal, in memory of his predecessor, the late Don Nicklin. The Nicklin medal will recognise an individual, team or company for a significant contribution to chemical and process engineering or the development of technology that contributes to the delivery of the IChemE vision internationally and will be awarded for the first time in 2009.

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