



Annual Review 2007

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

IChemE

heart of the process

1957–2007//////

Jubilee of the Royal Charter



IChemE offices: London, Melbourne and Kuala Lumpur

Contents

Page 4	The President's message
Page 6	2007 milestones
Page 8	A vibrant, optimistic and growing community
Page 10	Building a prosperous, cleaner, safer and more sustainable society
Page 12	Empowering professionals, companies and society
Page 14	Securing public awareness and support for chemical engineering
Page 16	A word from the Chief Executive
Page 18	Financial results
Page 20	Council members
Page 22	IChemE directorate and medal winners
Page 23	IChemE contacts

'IChemE has changed...it's more exciting now!'

Raffaella Ocone, Heriot Watt University, Edinburgh, Scotland



String Mania perform at the IChemE Awards Dinner

The future engineer and engineering our future

It has been an honour to serve as President of the Institution during the special year in which we celebrated the fiftieth anniversary of our Royal Charter. I am proud to be a chemical engineer. I firmly believe that leadership in engineering mankind's future will have to be provided by engineers. But what kind of engineers do we need in the twenty first century?

The vivid shrubs on the cover of this annual review provide a small clue as to the scale of the challenge that humanity faces. In northern Europe lilac is supposed to flower in the month of May. But a visitor to London's Kew Gardens in December would have observed that lilac was already in bloom; a full six months too soon. Most scientists support the view that these shifts in natural patterns provide clear evidence of the impact of climate change. At the same time, few experts doubt the assertion that climate change is man-made and that rising levels of atmospheric carbon dioxide and other global warming gasses are the cause. And even the most ardent climate change skeptic would surely agree that engineering will play a central role in tackling the challenge.

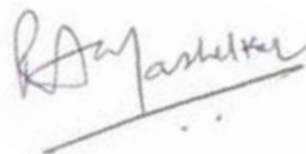
During the past twelve months I have observed with interest the debate on the issue of who should be called an engineer in the first place. One finds that the word "engineer" originates from the French word "ingenieur", meaning one who is ingenious. But what should the engineer strive for? The Lamme Medal is awarded by the US Institution of Electrical and Electronic Engineers each year. The inscription on that medal reads: "The engineer views hopefully the hitherto unattainable". In order for engineers to reach the "hitherto unattainable" they have to be innovators. A useful definition of an innovator reads as follows, "An innovator is one, who sees what everyone else sees but thinks of what no one else thinks". I believe that chemical engineers will continue to achieve things, which everyone thought could not be achieved. And we will continue to use methods that have never been tried before. In this way, the shared solutions to shared global challenges including climate change, universal access to clean drinking water and sustainable food supplies and the eradication of poverty will fall within our grasp.

There is no limit to human achievement. Technological disruptions such as the steam engine, the internal combustion engine, the transistor and the personal computer changed our lives. We do not yet know as to how the new technologies like bluetooth broadcasting, optical switching, code morphing and proteomics will change our lives.

Can chemical engineers contribute to such 'life changing' technologies of the twenty-first century? I feel confident that we can. In fact we already have. But in our own silent ways, for example the Haber Bosch process, which provides the fertilizers to fuel the food production and support the billions, who inhabit our planet today. Arguably, this chemical engineering innovation is the defining technology that made the exploding population survive in the first place. There are many such examples, where chemical engineers working alone, and in partnership with other disciplines have made a huge difference and I am certain our profession will continue to provide a hope for the future of our planet.

It is this optimism that underpinned one of the central projects of our Jubilee year. The Institutions' Roadmap for Twenty First Century Chemical Engineering identifies many of the key issues facing humanity and, crucially, the areas where chemical engineers can intervene to provide sustainable solutions to secure the future of mankind. The Roadmap along with the many other initiatives and work programmes described in this review demonstrate that IChemE is a forward looking and progressive institution that remains committed to supporting a profession that is helping to meet society's needs.

I trust that you will enjoy reading this short account of what has been a successful and memorable year for the Institution of Chemical Engineers.



Dr Ramesh Mashelkar
IChemE President 2007–2008

'IChemE is a forward looking and progressive institution that remains committed to supporting a profession that is helping to meet society's needs.'

Ramesh Mashelkar, IChemE President 2007-08



2007 milestones

January

- IChemE unveils its new corporate branding in recognition of reaching fifty years of chartered status.
- Past IChemE President and current Honorary Editor of IChemE Transactions, John Perkins, receives a CBE in the Queen's New Year Honours list.
- Official figures reveal that 1306 new chemical engineering students commenced first degree studies at UK universities in 2006 – a 9% rise year-on-year.

February

- Young chemical engineers from across the UK gather in Manchester for the legendary Frank Morton Sports Day. Imperial College London emerges as overall winner and hangovers abound.

March

- David Shallcross of the University of Melbourne, Australia, delivers 'Fingerprinting Dolphins and other Adventures in Maths', the 3rd Frank Morton lecture in Manchester, UK.
- 1st Annual General Meeting of the Malaysian Branch held in Kuala Lumpur.

April

- IChemE's relationship building with American Institute of Chemical Engineers continues at the AIChE Spring Meeting in Houston, USA.

May

- The Presidency passes from Greg Lewin to Ramesh Mashelkar at the IChemE Global Forum in London, UK
- IChemE stages the 12th International Symposium on Loss Prevention in the Process Industries in Edinburgh, Scotland.
- IChemE publishes the Roadmap for 21st Century Chemical Engineering, a bold document setting out the Institution's position on a series of key public policy topics.

June

- IChemE agrees a statement of ethical principles along with the UK's Royal Academy of Engineering and the Engineering Council UK.

July

- A photo taken on board a bulk carrier at sea by Geoff Rigby wins the IChemE 'Process Perspectives' Jubilee photo competition.

August

- Pharma Subject Group Chair, Keith Plumb, features extensively in the UK media, discussing the bio security implications of the Foot and Mouth Disease outbreak in England.

- IChemE announces a new publishing agreement with Elsevier to publish the Institution's journals from January 2008.

September

- The Institution's new look website, goes live at www.icheme.org
- whynotchemeng is launched in Australia by Immediate Past President, Greg Lewin, at Chemecca 2007 in Melbourne.
- Over 220 delegates attend the 8th European Gasification conference in Antwerp, Belgium.

October

- Malaysia joins the major league of countries claiming over 1000 IChemE members, alongside the UK, Ireland and Australia.
- Former UK Science Minister, David Sainsbury, speaks at a whynotchemeng celebration in London, UK. He describes chemical engineering as "of central importance to future economic success".
- Cambridge University spin-out, BioBullets, clinches the top prize at IChemE's annual awards dinner in London, UK.

November

- Chairman and Managing Director of Reliance Industries, Mukesh Ambani, is admitted to Honorary Fellowship of IChemE at a ceremony in Mumbai, India.
- A Memorandum of Understanding is signed by IChemE and the Indian Institute of Chemical Engineering (IICChE) heralding further international co-operation.
- UK universities celebrate as provisional figures show a record undergraduate chemical engineering intake.
- IChemE's Forms of Contract series go global with the launch of four new publications designed for international application.

December

- Russell Scott, Managing Director at Shedden Uhde, is appointed Chair of IChemE in Australia.
- Technical Vice President, Ian Shott, appears alongside Ramesh Mashelkar, Greg Lewin and David Brown on Indian TV channel NDTV in a panel discussion inspired by the IChemE's Jubilee Report, 'Shared Challenges, Shared Solutions'.
- IChemE Director of International Development, Neil Atkinson, is presented with the Distinguished Speaker Award at the CHEMCON conference in Calcutta, India.

'We wanted to put on a show that brought science and engineering to life and we succeeded.'

David Shallcross, University of Melbourne, Melbourne, Australia



David Shallcross gets a little help with a Hazop analysis on a cup of tea at the Frank Morton Lecture

A vibrant, optimistic and growing community

Record numbers

50 years on from receiving its royal charter, IChemE membership reached an all time high in 2007. At year-end, membership passed 27,700 following year-on-year growth of more than 5%, with membership applications rising by 18%. The year's biggest membership success story was in Malaysia where membership increased by 131%. By year-end, Malaysia had become only the fourth country to claim over 1000 IChemE members, alongside the UK, Ireland and Australia. Elsewhere, growth remained strong. UK membership rose by 2.5%, Australia by 5.9% and figures for the rest of the world increased by 1.6%.

UK chemical engineering departments celebrated a record undergraduate intake in 2007. 1455 new students opted to study the discipline, representing an 11.5% rise on the previous year, and a 55% rise since the beginning of the century. Much of the credit for these excellent figures can be attributed to whynotchemeng, IChemE's Schools and Careers Campaign. In 2007, whynotchemeng volunteers visited nearly 200 UK schools and colleges to highlight the benefits of a career in chemical engineering.

International outreach

Following the success of whynotchemeng in the UK, the campaign was extended to Australia in September with an official launch at the Chemeca meeting in Melbourne by IChemE Past President, Greg Lewin. whynotchemeng in Australia is supported by its own website and by careers literature tailored to an Australian audience.

IChemE continued to forge links with other international bodies and groups. In April, IChemE staff travelled to Houston, Texas to exhibit at the American Institute of Chemical Engineers' Spring Meeting. Later in the year, IChemE also exhibited at the AIChE's Annual Meeting in Salt Lake City, Utah and the respective director teams continued to explore collaborative projects.

In December, IChemE President, Ramesh Mashelkar signed a Memorandum of Understanding with the Indian Institute of Chemical Engineering (IICChE). The agreement promotes and extends professional, social and commercial links between the IChemE and IICChE to the benefit of members of both organisations.

A central purpose of the agreement is to provide an opportunity for dual membership across the two organisations delivered through IChemE's new ChemEngPartner scheme. Both organisations will also benefit from the interaction of members, particularly in the development of technical programmes.

Assuring quality

IChemE's accreditation team remained extremely active throughout the year, with visits to 11 universities around the world during 2007. This resulted in 26 undergraduate courses being formally reviewed and accredited or re-accredited at MEng level, with nine at BEng(Hons) level and one at IEng Level. Additionally, seven MSc courses were reviewed and approved as further learning to Masters level.

IChemE also ran its first Professional Development Workshop to share best practice within the Accredited Company Training Schemes (ACTS) community in 2007. With 15 companies in attendance, the event was rated a success and will be repeated in 2008. Get Chartered and Membership Mentoring events remain popular amongst members. Over 90 presentations were delivered by IChemE's membership team throughout the UK, Australia and Malaysia. And a further 30 seminars were delivered online, providing the international chemical engineering community with access to membership development resources.

An active Institution

Social networking websites are definitely the new internet phenomenon and the Institution is not being left behind. An official IChemE group was launched on Facebook in November. Within weeks, over 1000 users had signed up to the group to find out more about the latest IChemE developments and to network with like-minded chemical engineers around the world.

In March, students and teachers gathered in Manchester, UK to see Australian IChemE stalwart, David Shallcross, deliver the 3rd Frank Morton lecture: *Fingerprinting Dolphins and other Adventures in Maths*. Shallcross used a lively set of examples from history and modern times to show how mathematics underpins some of the world's greatest engineering feats.



Rana Patel, WNCE Volunteer



Malaysian Student Presentation



Greg Lewin

'We must reach out across geographic borders to create a global knowledge and skills pool that is greater than the sum of its parts.'

Ramesh Mashelkar, IChemE President 2007-08



Ramesh Mashelkar and K. Venkataramanan sign a Memorandum of Understanding between IChemE and the IChE

Building a prosperous, cleaner, safer and more sustainable society

A roadmap for the future

One of the key initiatives for the jubilee year was the finalisation and publication of a new technical strategy for the Institution. Led by the Technical Vice President, Ian Shott, the project passed a major milestone in May with the launch of the *Roadmap for 21st Century Chemical Engineering*. Presenting the document at IChemE's Global Forum in May, Ian told the audience that the Roadmap had evolved from a detailed consultation involving over 1100 members in more than 40 nations.

The Roadmap identifies many of the major challenges facing humanity and the role of chemical engineers in meeting those challenges. Grouped around six themes: *Sustainability and Sustainable Chemical Technology; Health, Safety, Environment and Public Perception of Risk; Energy – Securing Reliable and Affordable Supplies in the Near Term; Food and Drink; Water; and Bioprocess and Biosystems Engineering*, the Roadmap highlights a series of long-term action plans for consideration and implementation by the Institution and its Subject Groups in partnership with other stakeholders in the process community. Council approved the recruitment of a new Technical Project manager and additional investment in Subject Groups to support the implementation of the Roadmap, which will form the basis for much of IChemE's strategic development in the years ahead.

Sharing our knowledge

IChemE's Roadmap is written by chemical engineers for chemical engineers. But communicating with a non-technical audience is a different matter entirely. In response to this dilemma, the Global Forum also saw the unveiling of a special Jubilee Report: *Shared Challenges, Shared Solutions – Celebrating Fifty Years of Chartered Status*. Introduced to the audience by Past President, Dame Julia Higgins CBE, the report illustrates ways in which chemical engineering will make a significant contribution to securing sustainable development in the decades to come. *Shared Challenges, Shared Solutions* tells a story that reaches well beyond the scientific and engineering communities and serves as the ideal tool for members who want to demonstrate the role of chemical engineers as problem solvers.

IChemE's serial publications continued to go from strength-to-strength during the year. Following the agreement of a successful book deal with the world's leading science publisher, Elsevier, in 2006, the Institution announced a similar agreement to publish its set of peer-reviewed journals, including *Chemical Engineering Research and Design*, with Elsevier, commencing in January 2008.

The agreement will allow IChemE journals to be accessed by the widest possible audience, with editorial control remaining firmly in the hands of the Institution. Elsevier will distribute the journals both in print and online via the leading scientific research platform *ScienceDirect*.

For many members, *tce* represents their regular point of contact with IChemE. The magazine, which is frequently read by over seven out of ten members, enjoyed another successful year. Highlights included a look back over the last 50 years to mark the jubilee year and a series of special issues exploring the six Roadmap themes.

Platforms for discovery

In April, over 400 process safety experts gathered in Edinburgh, Scotland for the 12th International Loss Prevention Symposium with Mike Considine in the Chair. In September, John Griffiths called the 8th European Gasification conference to order in Antwerp, Belgium. *Gasification 8* attracted over 220 delegates from 19 countries. The event, previously held on a biennial basis, was brought forward by six months due to high levels of interest in a technology that shows great potential for effective carbon control.

Meanwhile, in India, IChemE teamed with the Centre for Chemical Process Safety (CCPS) and the Indian Chemical Council to announce the co-creation of an Indian Process Safety Centre, designed to help bring Indian process safety standards in line with other developed nations. The centre, based in Mumbai, is due to be completed by June 2008.

Over the course of the year, IChemE Subject Groups staged more than 40 events – a rich mix of conferences, seminars, workshops, lectures and site visits. Highlights included the conference, 'Advances in Process Control 8' (Process Management & Control Subject Group), seminars on 'Small-Scale Pharmaceutical Manufacturing' (Pharma Subject Group) and 'Managing the Risks of Aging Process Plant' (Safety & Loss Prevention Subject Group), each drawing over 70 delegates. New developments came in the form of web-based events; the Fluid Separations Subject Group's sessions on Distillation Column Troubleshooting proved extremely popular, with participants from four countries. Further web-delivery is planned for 2008 as Subject Groups rise to the challenge of meeting the needs of a rapidly internationalising membership.

'The Roadmap represents an important new beginning.'

Ian Shott, IChemE Technical Vice President 2007-08



IChemE Technical VP, Ian Shott

Empowering professionals, companies and society

Recognising achievement

Pioneering work within the international chemical and process engineering community was recognised at IChemE's annual Awards Dinner in October. Staged at the Hilton Metropole, London, the evening's top prize, the Entec Medal, was won by Cambridge University spin-off BioBullets, where a novel solution has been discovered to the problem of Zebra Mussels, which can block cooling water intakes.

BASF took the AstraZeneca Award for Excellence in Green Chemistry and Engineering, following the development of a process designed to reuse the greenhouse gas, nitrous oxide, produced during production processes.

Other winners included Johnson Matthey (ABB Engineering Services Environment Award) for the work it has done to develop a smaller, cleaner vehicle exhaust soot filter; Anglian Water and PuriTech (IChemE Water Award) who worked together to improve the way water treatment plants reduce the nitrate content in water; and Rachel Cooke (GSK Young Engineer of the Year 2007) for her work at Cadbury Trebor Bassett and her energetic efforts to highlight the work of chemical engineers in local schools.

Diners also heard news of a new award for the 2008 Awards Dinner, set to take place in Birmingham, UK as part of ChemEng 08. The 'Dhirubhai Ambani Award for outstanding chemical engineering innovation for the resource-poor people' will recognise chemical engineering innovation designed to improve the living conditions of the world's poorest people. The award will be sponsored by the Chairman of India's Reliance Industries, Mukesh Ambani, and is named after Ambani's father who founded Reliance Industries in 1958 as an importer of polyester yarn and exporter of spices.

Rewarding success

The Institution awarded three Honorary Fellowships in 2007.

Sir David King was awarded an Honorary Fellowship to recognise his bold and authoritative leadership during his term as Chief Scientific Advisor to the UK Government, particularly for his leadership in calling attention to the challenges of climate change and to acknowledge his championing of sound science and engineering as a basis for public policy.

Jim Ratcliffe, Chairman and Chief Executive at INEOS Ltd, was awarded an Honorary Fellowship in recognition of his sustained leadership in building the INEOS Group. Ratcliffe was a chemical engineering graduate from Birmingham University, UK in 1974.

Finally, Mukesh Ambani was presented with an Honorary Fellowship in November, in recognition of his work at Reliance Industries, where he has directed the creation of numerous manufacturing facilities, and overseen the creation of the world's largest grass root petroleum refinery at Jamnagar, India. Ambani studied for a chemical engineering degree at the University of Mumbai's Institute of Chemical Technology in the 1970s.

Securing government recognition

In October, IChemE held a reception to celebrate the achievements of the *whynotchemeng* campaign and to thank the many UK volunteers and ambassadors who have contributed to the campaign's success since its launch in 2001. Guest speaker was former UK Government Science and Innovation Minister, Lord Sainsbury of Turville, who emphasised the importance of chemical engineering to society when he said, "Chemical Engineering is in many ways the heart of the process and the Government still sees chemical, biochemical and process engineering as part of the new knowledge economy and of central importance to our future economic success."

Lord Sainsbury also received his certificate of Honorary Fellowship bestowed in 2006.



Mukesh Ambani



Rachel Cooke



David Aldridge, BioBullets

'The scientists and chemical engineers of tomorrow will be responsible for finding solutions to many of the problems facing our planet.'

Lord Sainsbury of Turville, former UK Government Science and Innovation Minister



Lord Sainsbury of Turville speaking at the whynotchemeng reception

Securing public awareness and support for chemical engineering

Taking chemical engineering to a wider audience

As part of IChemE's Jubilee initiative, the services of an external communications agency were retained throughout 2007. IChemE worked with Lewis PR to raise the media profile of chemical engineering and to highlight the benefits the profession brings to society.

To support this work, the Institution recruited a team of volunteer 'ChemEnvoys', members keen to represent IChemE as spokespeople in their areas of expertise. These volunteers were invited to attend media-training courses, helping them better understand how the media operate, and how best to shape their message and communicate effectively with journalists and broadcasters.

The campaign was considered a quantitative success, with 63 pieces of IChemE-related coverage obtained in key media outlets. This included seven pieces in the UK's *Financial Times*, five in *The Guardian* and *The Daily Telegraph*, three in *The Daily Express* and two in *The Independent*. News of the *whynotchemeng* launch in Australia reached the pages of the *Melbourne Age*.

Informing millions

ChemEnvoy Miles Seaman appeared on Sky News to discuss nuclear energy in February and on BBC News 24 later in the year. In May, Greg Lewin was a guest on CNBC to discuss the implementation of IChemE's *Technical Strategy*. IChemE Director of Policy and Communication, Andy Furlong also appeared on Sky News highlighting the urgent need for more science teachers in UK schools and the measures required to tackle a looming shortage of UK engineers.

In the print media, David Brown was a frequent contributor to the correspondence pages of the UK's national broadsheets, outlining the importance of chemical engineering to the global economy.

Brown was also one of three ChemEnvoys featured on the BBC's website throughout the year. Stef Simons explained why attention should be focused on developments that can really deliver a low carbon future, rather than carbon offsetting, Keith Guy

discussed the benefits of a hydrogen economy and Brown explained why our attitudes towards water usage must change.

Changing public perception

In October, IChemE commissioned Ipsos MORI to conduct a survey to assess UK public awareness of chemical engineering. A repeat of a similar survey conducted in 2002, the findings revealed that whilst the public's general understanding of chemical engineering has neither improved or worsened, fewer people associate negative connotations, for example 'dirty' or 'boring', with the profession than they did five years ago.

As part of IChemE's work to embrace the world of Web 2.0, extra resources were provided to support the Institution's initial foray into the world of blogs, podcasts and other media downloads.

And, at IChemE's Annual Awards Dinner, Keith Plumb was presented with the 'ChemEnvoy of the Year Award' in recognition of his extensive voluntary media work undertaken on behalf of the Institution.

Plumb appeared on BBC News 24, Sky News, ITN, BBC Radio 4, BBC Radio 5 and LBC Radio to discuss the biosecurity implications of the outbreak of Foot and Mouth Disease that hit the UK in August and September. He was also interviewed by *The Financial Times*, *The Times*, *The Guardian*, *The Telegraph* and *The Independent*.

In India, Technical Vice President, Ian Shott appeared alongside Ramesh Mashelkar, Greg Lewin and David Brown on NDTV in a panel discussion inspired by the IChemE's Jubilee Report, 'Shared Challenges, Shared Solutions'.

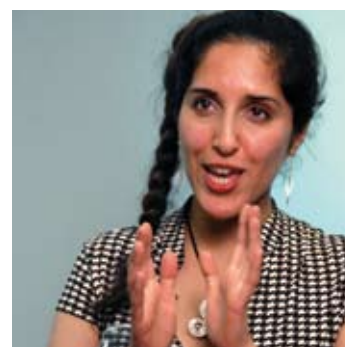
The results of such efforts are seen as a platform to build upon, and a legacy that will endure far beyond the Jubilee year for the Institution, its members and the discipline.



Nick Connelly, Chemenvoy



NDTV Panel



Shahana Mirza, Chemenvoy

'Chemical Engineers provide the canvas and paint of civilisation so that others may paint the picture.'

Keith Plumb, IChemE ChemEnvoy



Keith Plumb receiving his ChemEnvoy of the year award

A word from the Chief Executive

The 50th Anniversary of the Royal Charter marked a significant step forward in both the ambition and the public positioning of IChemE. The publication of the *Roadmap for 21st Century Chemical Engineering* has proved hugely successful. It enables IChemE to speak with an unparalleled degree of confidence on behalf of its members and the profession. The Roadmap makes our contribution and our point of view clear and explicit to industry, governments and others, as well as giving a focus and an impetus to the work of our national, regional and subject groups, most of which have responded with enthusiasm to the call to action that the Roadmap represents.

Encouraged by our members, we have set ourselves five strategic aims:

- to influence and engage with others to promote chemical engineering and attract talented people to the profession;
- to maintain standards and qualifications, ensuring excellence, relevance and esteem;
- to attract, retain and exceed the expectations of members;
- to build and enhance an international professional chemical engineering community; and
- to help professionals communicate with each other and the public on matters connected to chemical engineering.

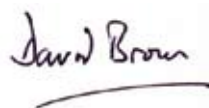
And to allow us to achieve all those aims, a sixth: to operate an effective, efficient and responsive organisation, providing leadership and exemplifying good practice.

So, how are we doing? When I joined IChemE, I promised that we'd sustain vigorous efforts to attract more young people into science and engineering and into chemical engineering in particular. With our partners across the science and engineering community, we've delivered on that promise: you've already read how the successful *whynotchemeng* campaign has been extended to Australia, and I'm pleased to see that in the UK, acceptances to chemical engineering university courses are at a record high – to the extent that we need to lobby for increased capacity. I also promised that we'd expand IChemE's activities around the world: and as detailed elsewhere in this review, IChemE in Malaysia continues to grow rapidly, and, inspired by our President, we've started to implement ambitious growth plans in India. Meanwhile as I write, we have enthusiastic members in several countries keen to start up local IChemE groups – and we're committed to help them do it.

IChemE must serve an increasingly diverse profession. 'Chemical Engineering' clearly embraces the biochemical, materials and environmental engineering aspects that are crucial to a wide range of industry sectors. To do so, we're increasingly operating through carefully selected partnerships with other stakeholders who share our concerns and aspirations. New and enhanced relationships with the Royal Society of Chemistry, the Indian Institute of Chemical Engineers, the American Institute of Chemical Engineers and the Malaysian employers' association, Chemical Industries Council of Malaysia, are just a few – all helping us to serve more effectively our boundaryless profession, and the process industries that rely on chemical engineering professionals.

We're steadily improving our services to members across the full diversity of the profession – sectorally, geographically and demographically – as we work to simplify membership processes, enhance our web-based tools and services, initiate new Subject Groups and work with regional and national groups to put more staff and resource where the members are. Increasingly, subject, national and regional groups are at the centre of IChemE's work – and we're encouraging more members to take part. I'm keen to learn what members think – so why not email me at chiefexec@icheme.org and share your thoughts and ideas?

So, as I complete my first full year as Chief Executive, I'm pleased to report that IChemE is confident, ambitious and healthy. The staff team in Australia, Malaysia and the UK is committed to helping our members deliver their contribution – their essential and invaluable contribution – to the economic, social and sustainability challenges facing humanity.



David Brown
Chief Executive

'IChemE is confident, ambitious and healthy.'

David Brown, IChemE Chief Executive



Financial results

2007 was a very successful year financially for the Institution, resulting in net incoming resources of £327,000 (2006: £259,000) from unrestricted funds. Direct costs were contained within budget, whilst income from the Institution's course and conference activity was boosted by their strong performance.

Two major conferences were held during the year, the 12th International Symposium on Loss Prevention and Safety Promotion in the Process Industries and the 8th European Gasification conference, attracting over 400 and 220 delegates respectively.

A further £52,000 in donations was received in respect of the whynotchemeng campaign from both industrial and academic supporters. Since the start of the campaign in 2001 the Institution has seen a 55% rise

in the number of students choosing to study Chemical Engineering at Universities, much of which we believe can be attributed to the campaign.

Investment Performance

The market value of the Institution's investment portfolio stood at £3,910,000 at the end of the year. However, after a volatile year on the stock market unrealised losses of £30,000 were recognised.

Council believe that the notional pension-funding deficit of £987,000 (2006: £1,949,000) calculated under FRS 17 (and incorporated in the balance sheet with comparative figures) has no material effect on the Institution's cashflows in the short term, and in the longer term its effects are sustainable out of future income.

Balance sheets at 31 December 2007

	Group		Institution	
	2007 £000	2006 £000	2007 £000	2006 £000
Fixed assets				
Tangible assets	1,827	1,941	1,827	1,941
Investments	3,910	3,792	3,910	3,792
	5,737	5,733	5,737	5,733
Current assets				
Debtors	808	952	793	921
Cash at bank and in hand	1,432	1,199	1,285	1,104
	2,240	2,151	2,078	2,025
Creditors:				
Amounts falling due within one year	(1,627)	(2,134)	(1,465)	(2,008)
Net current assets	613	17	613	17
Total Net Assets before pension deficit	6,350	5,750	6,350	5,750
Pension scheme funding deficit	(987)	(1,949)	(987)	(1,949)
Total Net Assets after pension deficit	5,363	3,801	5,363	3,801
Income funds				
Free reserves	5,920	5,713	5,920	5,713
Pension reserves	(987)	(1,949)	(987)	(1,949)
Unrestricted funds	4,933	3,764	4,933	3,764
Restricted income funds	430	37	430	37
	5,363	3,801	5,363	3,801



Consolidated statement of financial activities for the year ended 31 December 2007

	2007			2006		
	Unrestricted funds	Restricted funds	Total	Unrestricted funds	Restricted funds	Total
	£000	£000	£000	£000	£000	£000
INCOMING RESOURCES						
Incoming resources from generated funds:						
Donations	-	52	52	-	46	46
Activities for generating funds						
Trading income	1,088	-	1,088	1,126	-	1,126
Investment income	164	2	166	73	1	74
Incoming resources from charitable activities:						
Membership and Accreditation	1,953	-	1,953	1,856	-	1,856
Publishing and Information Services	1,059	-	1,059	1,029	-	1,029
Events and Training Products	1,121	-	1,121	903	-	903
Networks	226	-	226	303	-	303
Technical Centres	216	-	216	256	-	256
Total Incoming Resources	5,827	54	5,881	5,546	47	5,593
RESOURCES EXPENDED						
Costs of generating funds:						
Trading activities	(278)	-	(278)	(249)	-	(249)
Charitable activities:						
Membership and Accreditation	(1,173)	-	(1,173)	(1,360)	-	(1,360)
Publishing and Information Services	(1,719)	-	(1,719)	(1,667)	-	(1,667)
Events and Training Products	(916)	-	(916)	(766)	(7)	(773)
Networks	(728)	-	(728)	(541)	-	(541)
Policy and Influence	(326)	(168)	(494)	(298)	(170)	(468)
Technical Centres	176	-	176	(256)	-	(256)
Governance costs:	(29)	-	(29)	(31)	-	(31)
	(4,715)	(168)	(4,883)	(4,919)	(177)	(5,096)
Total Resources Expended	(4,993)	(168)	(5,161)	(5,168)	(177)	(5,345)
Net incoming/(outgoing) resources before transfers	834	(114)	720	378	(130)	248
Transfers between funds	(507)	507	-	(119)	119	-
Net incoming/(outgoing) resources	327	393	720	259	(11)	248
Net (losses)/ gains on investment assets	(30)	-	(30)	385	-	385
Pension scheme actuarial gains/(losses)	872	-	872	(269)	-	(269)
Net movement in funds	1,169	393	1,562	375	(11)	364
Fund balances brought forward at 1 January	3,764	37	3,801	3,389	48	3,437
Fund balances carried forward at 31 December	4,933	430	5,363	3,764	37	3,801

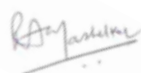
The results relate to the continuing activities of the Institution

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.

The consolidated financial statements were approved on 17 April 2008 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



Dr R Mashelkar
President



Mr K Batchelor
Hon 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 2007.

BDO Stoy Hayward LLP
Registered auditors
17 April 2008

Council members

Raghunath Anant Mashelkar

IChemE President;
Former Director General, Council of Scientific and Industrial Research of India

Richard Darton

IChemE Deputy President;
Head of Engineering Science, Oxford University

Greg Lewin

IChemE Past President;
President, Shell Global Solutions

Keith Batchelor

IChemE Honorary Treasurer;
Director of Engineering Operations, Foster Wheeler Energy

Colin Grant

IChemE Vice-President (Qualifications);
Dean of Engineering, University of Strathclyde

Ian Shott

IChemE Vice-President (Technical);
Chairman, Excelsyn Group

Don Nicklin (until October 2007)

IChemE Vice-President;
Chairman of IChemE in Australia

Russell Scott (from December 2007)

IChemE Vice-President;
Chairman of IChemE in Australia;
Managing Director, Shedden UHDE

Mohd. Ali Hashim

Chairman of IChemE in Malaysia;
Professor of Chemical Engineering, University of Malaya

Trish Melton

Managing Director, MIME Solutions

Rachel Toner

Project Manager, Fluor

David Bogle

Head of Graduate School, University College London

Michael Simm

Director of Process Engineering, Foster Wheeler Energy

Jonathan Seville

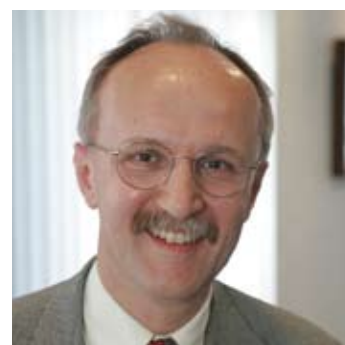
Head of Chemical Engineering, University of Birmingham



Richard Darton



Trish Melton



Jonathan Seville



IChemE directorate and medal winners

David Brown

Chief Executive Officer, IChemE

Jan Althorp

Executive Director, IChemE in Australia and Asia Pacific

Neil Atkinson

Director, Qualifications and International Development

Justin Blades (from August 2007)

Director, Regional Networks and Membership Support

Andy Furlong

Director, Policy and Communication

Caroline Smith

Director, Publications and Resources

Staff details

IChemE is recognised as an Investor in People. The total number of staff at IChemE's Australia, Malaysia and UK offices at the turn of the year stood at 70. In August 2007, IChemE said farewell to Kate Harrison, Director, Corporate Governance and Regions, after five and a half years with the Institution.

IChemE also learned of the death of two key Council members – past and present – in 2007. Don Nicklin, Chairman of IChemE in Australia and John Archer, Past President passed away in October and December respectively. Both Don and John made significant contributions to the Institution and the profession throughout their lives and their accomplishments will live on throughout the chemical engineering community.

Medals

- Malcolm Wilkinson received the Arnold Greene Medal, in recognition of his work in connection with the Crystal Faraday Partnership, IChemE's Sustainability Subject Group and other facets of the Institution's work.
- Alan Lees was awarded the Council Medal, in recognition of his pivotal work in developing IChemE's role in Malaysia.
- Ian Kemp received the Brennan Medal for writing Pinch Analysis and Process Integration: A User Guide on Process Integration for the Efficient Use of Energy.
- Mike Considine was awarded the Franklin Medal, in recognition of his outstanding contribution to process safety.
- Doug Rathbone was awarded the Australian/New Zealand Chemeca Medal.
- The Hanson Medal was jointly awarded to Roland Clift and Yacob Mulugetta for their article A Plea for Common Sense, published in tce, October 2007, and to Peter Styring for his article Engineering Winter Olympic Gold in the December 2006/January 2007 issue.
- The Hutchison Medal was awarded to Barbara J. Lowesmith, Geoff Hankinson, Mike Acton and Geoff Chamberlain for their paper, An overview of the nature of hydrocarbon jet fire hazards in the oil and gas industry and a simplified approach to assessing the hazards, published in PSEP in May 2007.
- Grant Campbell was awarded the Frank Morton Medal, as nominated by IChemE's Accreditation Committee.
- Andrew Lyddiatt was awarded the Donald Medal for his long standing and important contributions to biochemical engineering.
- Stephen Connolly and Laurence Cusco received the Frank Lees medal for their paper "Hazards from high pressure carbon dioxide releases during carbon dioxide sequestration processes", presented at Loss Prevention 2007.



Jan Althorp



Neil Atkinson



Caroline Smith

IChemE contacts

UK and Rest of World member enquiries

ukmembers@icheme.org

Australian membership enquiries

austmembers@icheme.org

Malaysian membership enquiries

malaysianmembers@icheme.org

Indian membership enquiries

indiachemengpartner@icheme.org

IChemE publications and online shop

sales@icheme.org

Subject Group enquiries

subjectgroups@icheme.org

Training and Courses

courses@icheme.org

Media enquiries, public relations, use of corporate logo

pr@icheme.org

whynotchemeng

enquiries@icheme.org

IChemE
Davis Building
Railway Terrace
Rugby
CV21 3HQ
UK
Tel: +44 (0) 1788 578 214
Fax: +44 (0) 1788 560 833

IChemE
One Portland Place
London
W1B 1PN
UK
Tel: +44 (0) 207 9278 200
Fax: +44 (0) 207 9278 181

IChemE in Australia
Level 11
488 Bourke St
Melbourne
VIC 3000
Australia
Tel: +61 (0) 3 9642 4494
Fax: +61 (0) 3 9642 4495

IChemE in Malaysia
Suite 31-3
31st Floor
Wisma UOA II
No.21
Jalan Pinang
50450 Kuala Lumpur
Malaysia
Tel :+60 (0)3 21660822
Fax: +60 (0)3 21660922

IChemE is recognised as an Investor in People.

IChemE is a registered Charity in England and Wales

IChemE is licensed to award CEng, CSci and CEnv by:



www.icheme.org

Editorial by Matt Stalker. Design by Lindsey Mawby