

Heart of the Process

IChemE Annual Review 2004

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



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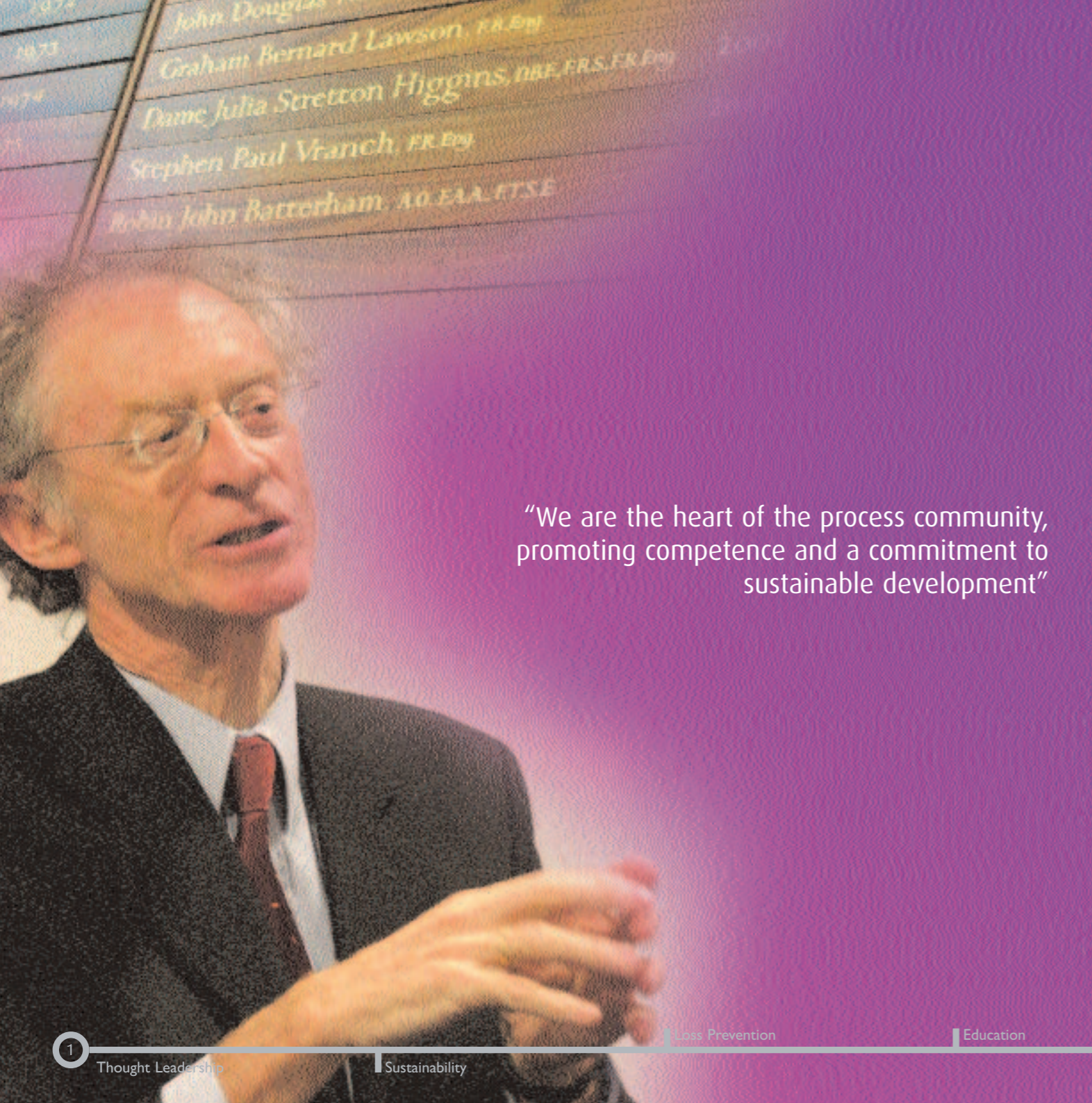
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IChemE

heart of the process



“We are the heart of the process community, promoting competence and a commitment to sustainable development”

The heart of the process community

IChemE is the hub for chemical, biochemical and process engineering professionals worldwide. We are the heart of the process community, promoting competence and a commitment to sustainable development, advancing the discipline for the benefit of society and supporting the professional development of members. But what does this really mean?

As a professional body and learned society, representing over 25,000 members worldwide, we must play a leading role in communicating the work of the process community to the public, governments, industry leaders and within our own community. We must monitor and maintain the high standards expected for universities to secure accreditation for their chemical engineering courses and sustain the benchmark of excellence required to achieve chartered status. Encouraging the next generation of chemical engineers remains a long-term priority, for without a steady supply of high-quality graduates the profession has no future.

Providing support for the professional development of our members is also a key function of the Institution. Embracing the diversity of our profession is important and this is reflected in the expanded portfolio of qualifications that IChemE offers. In 2004 we saw the granting of licences to award the new titles of Chartered Scientist and Chartered Environmentalist, a development that I warmly welcomed.

IChemE will continue to provide a lead in areas of public concern including sustainable development, safety, loss prevention and environmental protection. In 2004 this commitment was demonstrated through many excellent initiatives, described throughout this annual review.

Delivering sustainable development remains a major challenge for all of us and I focused on this subject in my Presidential Address. We have much to offer. As chemical engineers, our knowledge and technical expertise makes us well placed to develop workable solutions. In January 2004, the IChemE Sustainability Subject Group was launched. I have urged the leaders of this new group to embrace new ways of thinking with the aim of developing sustainability strategies and most

importantly, to put across the vital message that chemical engineering is part of the solution — not part of the problem. Education is also crucial to securing sustainable development and IChemE is ensuring that an understanding of sustainability becomes a core learning outcome for accredited courses. We must ensure that the chemical engineers of the future are well equipped to solve the problems faced by humanity. IChemE will host the 7th World Congress of Chemical Engineering in July 2005. The congress presents an unmissable opportunity for us to show the world what we can do.

IChemE will continue to provide thought leadership on issues that affect both our community and the wider society in which we live. The chemical engineering skill set remains as relevant today as it did during the birth of our profession almost eighty years ago. Chemical engineering is indeed the heart of the process. Across the developed world and increasingly in the emerging nations, society is demanding that “process” is sustainable. I believe that society will take chemical engineers to heart if we can play our part in making this happen.

Dr Robin Batterham
IChemE President 2004-2005

Competence and commitment

Expanding the membership

Promoting corporate membership as the definitive benchmark of excellence for the professional chemical engineer is a core strategy for IChemE. In 2004, new guidelines were established for achieving Chartered Chemical Engineer status. The membership process has been updated to encourage applications from across the broad spectrum of the discipline, accommodating a wider range of qualifications and making full membership more accessible to those pursuing academic research or science-based careers. A new competence and commitment report requires applicants to provide evidence of chemical engineering competence based on learning outcomes from work-based experience. The rigorous standards synonymous with full Corporate Membership are undiminished and the letters MIChemE continue to signify the highest professional standards.

IChemE membership reached a record high in 2004, exceeding 25,000 members worldwide, Council approved plans for stimulating further growth. Chief Operating Officer, Eileen Lawson, unveiled a strategy to promote IChemE membership internationally with initial focus on South East Asia, in particular Malaysia. The Council and Board of IChemE in Australia undertook a restructuring of the Institution's operations in Australia. New arrangements for 2005 were agreed with the full support of the Council, the Board, and its new Chair, Professor Tam Sridhar. The measures will aid membership retention and development in the Asia Pacific region.

Engineering, science and the environment

The IChemE membership team enjoyed a busy year with the introduction of a new set of qualifications that reflect the diversity of chemical engineering practice. IChemE became a founding Constituent Body for the Society for the Environment in July and was later granted a licence to award the new title of Chartered Environmentalist (CEnv). The new qualification will develop to become the de facto benchmark of excellence for environmental professionals — an area where many IChemE members make a significant contribution. Existing Corporate Members involved in environmental practice can apply for the

qualification under a special “grandparenting” scheme. IChemE was also granted permission to award the new title of Chartered Scientist (CSci) from 2004. A move welcomed by outgoing Vice-President, Professor Richard Darton, who said, “By giving membership to chemical engineers pursuing science-based careers we make the Institution a livelier, more forward-looking body, which is responsive to the changing needs of its membership.”

2004 also saw the launch of a new online CPD toolkit that helps membership applicants demonstrate a commitment to planned professional development. The toolkit, developed by the IChemE e-mobilisation team in conjunction with project management specialist Dr Trish Melton, can be used to log skills, identify and prioritise development opportunities as part of a continuous process.

Education matters

Excellence is not only reflected in membership requirements. IChemE continued to accredit chemical engineering courses run by universities worldwide, with 109 courses at over 50 universities in 14 countries bearing the IChemE stamp of quality in 2004.

September saw the launch of the first regional subject group in Australia at the Chemeca Conference in Sydney. The new Chemical Engineering Education Subject Group, which aims to promote best practice and exchange ideas on teaching, will initially draw its membership from Australia, New Zealand, Singapore and Malaysia. The group has ambitions to expand its membership worldwide.

Securing a quality supply of chemical engineers in future years continued to be a major project for the Institution. The whynotchemeng campaign in the UK entered its fourth year. Carefully targeted relationship building with teachers, pupils and parents helped to raise the profile of the discipline. The intake to chemical engineering first-degree courses in the UK rose for the third successive year. Official figures revealed a near 10% increase in 2004, spelling good news for the future of the profession as nearly 1100 students commenced their studies.

“The intake to chemical engineering first-degree courses in the UK rose for the third successive year”

It's a blast - whynotchemeng literature

SocEnv - IChemE a founding body

Left to Right: Tam Sridhar, Online CPD Toolkit, Eileen Lawson



Useful resources and links:

Whynotchemeng

www.whynotchemeng.com

CPD Toolkit

www.icheme.org/cpd

IChemE in Australia

www.icheme.org.au

Membership home page

www.icheme.org/membership



“Putting the fun into chemical engineering”

Product Design for the 21st Century - Geoff Moggridge in action
Left to Right: John Garside, Conference Proceedings, Roland Clift



Useful resources and links:

Gasification 6

www.icheme.org/gasification

Medal winners

www.icheme.org/medals

Crystal Faraday

www.crystalfaraday.com

A responsible profession

Serving the public interest

IChemE's Royal Charter granted in 1957 clearly sets out the purpose of the Institution: "To promote foster and develop the general advancement of the science of chemical engineering in all its branches as an end in itself and as a means to furthering scientific and economic development to the benefit of the community at large". A professional code of conduct further reinforces the responsibilities of membership: "When discharging their professional duties members agree to act with integrity in the public interest and to exercise all reasonable professional skill and care".

IChemE members are required to act in the public interest.

2004 saw a number of initiatives in the realms of safety, energy security and sustainable development.

Addressing sustainability and energy

The IChemE Sustainability Subject Group was officially launched in London during January. The group will develop strategies to advance sustainable technologies, providing a focal point for debate on the role of the chemical engineer in delivering sustainability. The launch meeting addressed the question "Can we deliver sustainability?" A number of principal players in the field attended, including Jonathan Porritt, Chairman of the Sustainable Development Commission, Dr Rob Margetts, Chair of the National Environmental Research Council and Surrey University's Professor Roland Clift, the longest serving member on the Royal Commission on Environmental Protection.

The programme and speakers at the 32nd Chemeca Conference in Sydney sent a strong signal about the sustainability challenges ahead through its theme "Sustainability processes".

Brighton was the venue for the Gasification 6 Conference in May with future energy challenges topping the agenda. UK Coal Chief Executive, Ian Roxburgh raised doubts over the economic viability of coal gasification. Many delegates took a more optimistic view. The chairman of the UK's Parliamentary Group for Energy Studies, Paddy Tipping MP, highlighted the uncertainty brought about by volatile energy prices and made a

strong case for governments to support gasification technology. Other technical conferences during the year included November's Switching from Batch to Continuous Processing, co-sponsored by the Crystal Faraday Partnership.

Putting the fun into chemical engineering

Chemical engineering is never dull, was the key message at the second Frank Morton lecture held in March. Cambridge University's Dr Geoff Moggridge received the Frank Morton Medal for excellence in chemical engineering education following a lively and engaging demonstration on the challenges of chemical product design before an invited audience of sixth-form pupils, in Birmingham.

People at the top

Senior IChemE members were entrusted with high profile public positions during the year. The Health and Safety Commission announced the appointment of Past-President Steve Vranich, as Chair of the UK's Nuclear Safety Advisory Committee in September. Professor John Garside, former Vice-Chancellor of UMIST and another IChemE Past-President, spearheaded the merger that led to the formation of the new University of Manchester. Garside received the CBE in recognition of his efforts. On the home front, IChemE's Technical Vice-President, Professor Keith Guy stepped down to be replaced by Excelsyn's Ian Shott. Guy received the Council Medal for his service and commitment to the Institution. Dr Mark Toner was awarded the IChemE in Australia Jubilee Medal for services to the Institution and the profession.

Meanwhile, it was all change at Crystal, the green chemical technology Faraday partnership hosted by IChemE. Neville Hargreaves arrived from consultants Bain & Co, to take the reins from Managing Director Malcolm Wilkinson who retired at the end of the year.

Advancing the discipline

IChemE gets set to welcome the world

The 7th World Congress of Chemical Engineering will take place in Glasgow during July 2005. 2000 visitors are expected to attend the event. Organisation and planning continued during 2004 as IChemE geared up to host the world forum for innovation and achievement in chemical engineering. The Call for Papers, issued in April 2004, prompted a record response with almost 3000 abstracts submitted by authors in more than 70 countries. The congress is on track to be the largest stand-alone gathering of the process community in Europe in 2005.

The Congress Chairman, Professor Colin Grant, expressed a determination to deliver an event that will showcase the positive social, environmental and economic impacts of chemical engineering. Speaking at the IChemE Assembly in May he said, "Glasgow will be the ideal platform for chemical engineers from around the world to present the latest developments in process technology and research. It's the biggest project ever undertaken by IChemE and we will use the congress to show how the discipline contributes to improved quality of life."

The congress will cover every aspect of chemical engineering. Work continued in 2004 on a series of novel themes, including Molecules into Money and Engineering for Life. The programme has been designed to demonstrate the multi-disciplinary nature of chemical engineering in the 21st Century and convey its importance to a wider audience. Headline plenary contributors confirmed their attendance, including French Nobel Laureate Professor Jean-Marie Lehn, Singapore's Professor Jackie Ying and the President of Trinidad and Tobago, George Maxwell Richards. HRH Princess Anne, The Princess Royal, also confirmed her attendance as official patron. Industry support continued to build with over twenty companies committing financial and practical assistance to the congress. Overseas promotion for the event saw IChemE representatives, including Chief Executive, Dr Trevor Evans, travel as far afield as USA, Japan, Australia and mainland Europe.

Policy and positioning

IChemE provides a voice for chemical engineers in the development of public policy. In July, the new Sustainability Subject Group issued a

provocative response to a UK government consultation on sustainable development strategy. Later in the year, the Institution responded to a further UK government consultation on carbon abatement technologies. IChemE continued to play an active role in the Parliamentary Group for Energy Studies and the Parliament and Scientific Committee. In December, a new climate change policy group was established under the leadership of Professor John Garside. The group is charged with identifying areas of intervention into the climate change debate at the 2005 meeting of the G8 nations.

Ian Shott's arrival as Technical Vice-President prompted an early review of the mechanisms for technical policy making. A "think-tank" comprising leading IChemE members was convened in November. Agreement was reached on a set of forward priorities, including risk, safety and environment and post genomic technologies. Further work on the creation of definitive position statements will continue in 2005.

First published in 2002, The Sustainability Metrics, were reprinted for a second time in 2004. The metrics, which provide a practical set of sustainable development progress indicators, have continued to attract international interest.

Innovation and achievement

The 11th Annual IChemE Awards ceremony took place at Christ Church, Spitalfields in London at the end of September. Michael Portillo MP presented the awards before a packed house of guests drawn from across the process sector including senior executives from Shell, AstraZeneca and BNFL. Nine awards were presented with the evening's top award, the Entec Medal, going to a multi-disciplinary collaboration between Johnson Matthey, Imperial College and Cardiff University for their novel synthesis of hydrogen peroxide.

"The world forum for innovation and achievement"

IChemE Awards - Michael Portillo MP works the audience
Glasgow SECC - World Congress venue
Left to Right: Trevor Evans, The Sustainability Metrics, Colin Grant.



Useful resources and links:

World Congress
www.chemengcongress2005.com
Hot topics
www.icheme.org/hot_topics
Sustainability Metrics
www.icheme.org/sustainability
Awards programme
www.icheme.org/awards2004

“IChemE members are an essential source of technical competence and advice”

ChERD - the platform for European research

IChemE Assembly - turning words into actions

Left to Right: 2004 Medallists, BP Safety Titles, Claudia Hume



Supporting professional development

Member networking

The third IChemE Assembly took place at Dunchurch Park near Rugby in May. Now firmly established as the Institution's key annual gathering, the two-day meeting incorporated the formal AGM and the Presidential handover from Steve V ranch to Dr Robin Batterham. Sustainability featured prominently in both the Presidential Address and the Assembly Debate. Batterham highlighted the pivotal role for chemical engineers in delivering a sustainable future. However, during the debate delegates took a less sanguine view and passed a motion lamenting the slow progress being made. Elsewhere on a busy agenda, Assembly 2004 saw the launch of the IChemE online CPD toolkit, policy forums, workshops and seminars.

IChemE's Member Networks team enjoyed a busy year with a record number of delegates attending technical seminars and meetings. Subject Groups continued to provide a focus for technical debate and thought leadership whilst Branches offered an essential forum for local networking. Among the highlights was a memorable gathering of the IChemE Food and Drink Subject Group, which celebrated its 20th anniversary with a special meeting at London's Royal Society in June. The long-running Hazards symposium series continued in November. Organised by the North West branch, Hazards XVIII built on the success of previous gatherings. Elsewhere, the London and South East branch had its eyes firmly fixed on the future with an entertaining series of "Horizon" lectures examining opportunities in chemical engineering beyond the traditional heartlands of oil and gas, chemicals and process contracting. Further afield, IChemE Fellows travelled from all states in Australia to attend the inaugural Fellows lunch held at the Victorian Parliament House in May.

Training provision expands

Training is an important feature of IChemE's professional development activity and 2004 was a bumper year for in-company training courses. Programmes were provided at more than 30 sites as far afield as Algeria and USA. Safety training proved popular as ever with companies including British Sugar, Johnson Matthey and Thames Water calling upon IChemE's expertise. New training partnerships were established with several key clients and IChemE anticipates further growth in this area.

Communicating progress

Books and other publications figure strongly in the Institution's work programmes. IChemE members are an essential source of technical competence and advice. The Publications team continued to work with key groups including the Contracts Working Party, the Transactions Editorial Board and the Loss Prevention Panel in pursuit of ideas and inspiration for new titles. IChemE joined forces with BP to bring its popular series of chemical process safety booklets to a wider audience. Four titles were published in 2004, with a further ten in the pipeline. Other titles released during the year included Physical Property Data Book for Engineers and Scientists by David Shallcross and revised editions of three books from the well-known Forms of Contract Series. Chemical Engineering Research and Design (ChERD), Process Safety and Environmental Protection (PSEP) and Food and Bioproducts Processing (FPB) continued to grow in stature as the official journals of the European Federation of Chemical Engineering (EFCE). 2004 saw two special issues of ChERD; the first in September in honour of Professor Alvin Nienow, to mark his retirement from the University of Birmingham, and the second, in December, to commemorate EFCE's 50th anniversary.

tce continued to flourish under the leadership of new editor, Claudia Hume, enjoying an improved profile and attracting positive feedback from members. Hard work by the advertising team paid dividends. A healthy flow of display and recruitment advertising supported extra pages of high-quality editorial throughout the year.

Virtual library

IChemE sees electronic information services as a key benefit of membership. 2004 saw the introduction of Knovel, a new online library service giving members fully searchable access to over 500 science and engineering texts, 20 million data records and a selection of interactive tools including equation plotters. The response to Knovel was excellent with over 30,000 virtual book loans during the year. IChemE titles will be added to the Knovel collection in 2005.

Financial results

Summary Statement

2004 was a satisfactory year for the Institution. Income from operating and trading came in on budget and improving market conditions, particularly in the area of recruitment, saw advertising revenue grow by more than 15% to £722,000. The Institution's training activities also enjoyed a successful year with income from in-company and sponsored courses up by £44,000 on 2003. Attendance at technical conferences remained healthy with Gasification 6, Switching from Batch to Continuous Processing and Hazards XVIII all generating modest surpluses.

Publications experienced a mixed year. The repositioning of Chemical Engineering Research and Design (ChERD) as the official journal of the European Federation of Chemical Engineering (EFCE) in January 2003 prompted further income growth. EFCE endorsement was extended to

Process Safety and Environmental Protection (PSEP) and Food and Bioproducts Processing (FBP) in 2004. Sales of books and training packages were poor. However, proposals for the launch of several new titles provide grounds for optimism in this important revenue generating area.

Efforts to attract sponsorship for the 7th World Congress of Chemical Engineering proved fruitful and the Institution remains on course to deliver the event within a break-even operational budget.

Investment Performance

A stock market revival saw the Institution's balance sheet strengthen with an increase in value of £216,000 on investment assets. This, coupled with an operational surplus of £109,000, yielded net growth in assets of £325,000 resulting in total fund balances of £4,930,000 at year end.

Balance Sheets at 31 December 2004

	Group		Institution	
	2004 £'000	2003 £'000	2004 £'000	2003 £'000
Fixed assets				
Tangible assets	1,985	2,108	1,985	2,108
Investments	2,942	2,627	2,942	2,627
	4,927	4,735	4,927	4,735
Current assets				
Debtors	1,418	1,101	1,180	1,137
Cash at bank and in hand	499	514	474	435
	1,917	1,615	1,654	1,572
Creditors				
Amounts falling due within one year	(1,914)	(1,745)	(1,651)	(1,702)
Net current assets/(liabilities)	3	(130)	3	(130)
Net assets	4,930	4,605	4,930	4,605
Income funds				
Unrestricted funds	4,891	4,562	4,891	4,562
Restricted funds	39	43	39	43
Total funds	4,930	4,605	4,930	4,605

Consolidated Statement of Financial Activities for the year ended 31 December 2004

	2004			2003		
	Unrestricted Funds £'000	Restricted Funds £'000	Total 2004 £'000	Unrestricted Funds £'000	Restricted Funds £'000	Total 2003 £'000
Incoming resources						
Donations		27	27		56	56
Activities in furtherance of the charity's objects:						
Membership subscriptions and registrations	1,501		1,501	1,361		1,361
Publishing and information services	911		911	912		912
Events and training products	724		724	712		712
Networks	261		261	225		225
Co-operative projects	370		370	412	59	471
Other income	93		93	147		147
Activities for generating funds:						
Trading income	722		722	626		626
Investment income	99	1	100	80	1	81
Other incoming resources				96		96
Total incoming resources	4,681	28	4,709	4,571	116	4,687
Resources expended						
Costs of generating funds						
Trading activities	(218)		(218)	(162)		(162)
Charitable expenditure						
Membership support	(818)		(818)	(590)		(590)
Publishing and information services	(1,339)		(1,339)	(1,460)		(1,460)
Events and training products	(714)		(714)	(675)	(7)	(682)
Networks	(500)		(500)	(475)		(475)
Co-operative projects	(370)		(370)	(412)	(59)	(471)
Other costs	(529)	(69)	(598)	(690)	(79)	(769)
Management and administration	(43)		(43)	(49)		(49)
	(4,313)	(69)	(4,382)	(4,351)	(145)	(4,496)
Total resources expended	(4,531)	(69)	(4,600)	(4,513)	(145)	(4,658)
Net incoming/(outgoing) resources before transfers	150	(41)	109	58	(29)	29
Transfers between funds	(37)	37		(9)	9	
Net incoming/(outgoing) resources	113	(4)	109	49	(20)	29
Net gains on investment assets	216		216	185		185
Net movement in funds	329	(4)	325	234	(20)	214
Fund balances brought forward at 1 January	4,562	43	4,605	4,328	63	4,391
Fund balances carried forward at 31 December	4,891	39	4,930	4,562	43	4,605

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@cheme.org.uk.

The consolidated financial statements were approved on 14 April 2005 and will be delivered in due course to the Charity Commission. The consolidated financial statements have been audited by a qualified auditor, KPMG 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



Gordon Campbell, Honorary Treasurer
14 April 2005

Independent auditors' statement to the Council of the Institution of Chemical Engineers

We have examined the summarised financial statements set out on pages 11 to 12 which are non-statutory accounts prepared for the purpose of inclusion in the Institution's Annual Review.

This statement is made solely to the Institution's Council, as a body, in accordance with the terms of our engagement letter 7 October 2002. Our work has been undertaken so that we might state in this report those matters we are required to state by the terms of our engagement and for no other purpose. To the fullest extent permitted by law, we do not accept or assume responsibility to anyone other than the Institution and the Institution's Council, as a body, for our work, for this statement, or for the opinions we have formed.

Respective responsibilities of the Council and auditors

The Council is responsible for the preparation of the summarised financial statements. We have agreed to report to you, the Council, on their consistency with the statutory Council's report and consolidated financial statements, on which we reported on 14 April 2005. 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.

Basis of opinion

We have carried out the procedures we consider necessary to ascertain whether the summarised financial statements are consistent with the statutory Council's report and consolidated financial statements from which they have been prepared.

Opinion

In our opinion, the summarised financial statements are consistent with the statutory Council's report and consolidated financial statements for the year ended 31 December 2004.

KPMG LLP
Chartered Accountants
Registered Auditor

2 Cornwall Street
Birmingham
B3 2DL
14 April 2005

Council and staff contacts

IChemE is the hub for chemical, biochemical and process engineering professionals worldwide. We are the heart of the process community, promoting competence and a commitment to best practice, advancing the discipline for the benefit of society and supporting the professional development of our members.

Council Members 2004

Robin Batterham
President

John Archer
Deputy President

Gordon Campbell
Honorary Treasurer

Richard Darton
Vice President (Qualifications)

Ian Shott
Vice President (Technical)

Tam Sridhar
Vice President (Chairman of IChemE in Australia)

Steve Vbranch
Past President

Keith Batchelor

Joe Biddlestone

David Bogle

Helen Marson

Andrew Haslett

Jonathan Seville

Trevor Evans
Chief Executive

Eileen Lawson
Chief Operating Officer

IChemE Directorate 2004

In addition to the Chief Executive and Operating Officers, the following members of staff served on the IChemE directorate during the year.

Jan Althorp
Executive Director – IChemE in Australia

Neil Atkinson
Director – Qualifications

Dinesh Fernando
Director – E-mobilisation

Kate Harrison
Director – Member Networks & Events

Caroline Smith
Director – Publications

Staff changes

The total number of staff at IChemE's Rugby, London and Melbourne offices at the turn of the year stood at 77. The Director team was restored to full strength with the arrival of Neil Atkinson. Chris Webb departed after four years as editor of *tce* and IChemE also said goodbye to Cyn Taylor who retired after 14 years in the Accounts team and Francis Benz who moved on to pastures new after 16 years in the Print and Post room.

IChemE was re-recognised as an Investor in People during 2004.

“IChemE — a modern Institution at work”

