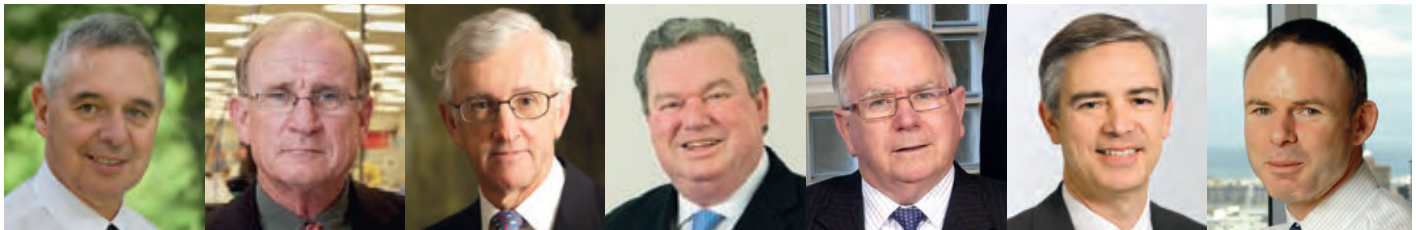


CHEMICAL ENGINEERING JUNE 2009 IN AUSTRALIA

NEWS

Produced by Engineers Media, Engineers Australia's publishing company, for the IChemE in Australia and the Chemical College of Engineers Australia. The statements made or opinions expressed in this newsletter do not necessarily reflect the views of Engineers Australia or the Institution of Chemical Engineers in Australia.

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Geoff Stevens

Peter Farrell

James Graham

Ray Horsburgh

Mike Dureau

Des King

Marius Kloppers



Greg Lewin

Andrew Liveris

Andrew Michelmore

Douglas Rathbone

Christopher Roberts

John Schubert



Paul Douglas

Paul Greenfield

Peter Lee

Robin Batterham

Influential chemical engineers

The 2009 list of Australia's 100 most influential engineers, published in the June issue of *Engineers Australia* magazine, contains the names of 17 chemical engineers.

The list is divided into seven categories – Industry, Consulting, Academia/Research, Public Service, Engineering Expertise, Politics/Other and Associations – with chemical engineers represented in four.

The chemical engineers are:

Industry

- Dr Peter Farrell, chair and CEO of Res-Med, San Diego, US
- James Graham, managing director of Gresham Partners, Sydney
- Ray Horsburgh, chair of Toll Holdings, Melbourne
- Dr Des King, managing director and CEO of Caltex Australia, Sydney
- Dr Marius Kloppers, CEO of BHP Billiton, Melbourne

- Greg Lewin, president of Shell Global Solutions International, The Hague, Netherlands
- Andrew Liveris, president, CEO and chairman of the Dow Chemical Company, Michigan, US
- Andrew Michelmore, CEO of OZ Minerals, Melbourne
- Douglas Rathbone, managing director of Nufarm, Melbourne
- Chris Roberts, president and CEO of Cochlear, Sydney
- John Schubert, chair of the Commonwealth Bank, Sydney.

Consulting

- Paul Douglas, chief executive of SKM, Melbourne

Academia/Research

- Mike Dureau, chairman and executive director of the Warren Centre for Advanced Engineering, Sydney

- Prof Paul Greenfield, vice-chancellor of the University of Queensland, Brisbane
- Prof Peter Lee, deputy vice-chancellor of the University of South Australia, Adelaide
- Prof Geoff Stevens, pro-vice-chancellor, University of Melbourne.

Associations

- Dr Robin Batterham, president of the Australian Academy of Technological Sciences and Engineering, Melbourne.

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NEWS

Gas about to flow from Blacktip field

Gas from the Blacktip field in the Bonaparte Gulf off the coast of the Northern Territory is expected to start flowing this month, following the completion of the onshore gas processing facility at Wadeye near the Western Australian border. The pipeline from the field to shore was completed last December. Another pipeline connects the processing plant with the existing Amadeus Basin to Darwin pipeline.

The development of the Blacktip field, which has recoverable reserves of 150 million barrels of oil equivalent, started in 2006. Natural gas extracted from this field will be sold under a 25-year contract signed with Darwin Power & Water Utility. It will be piped to Weddell powerstation, the largest electricity generation project in the Northern Territory.

The initial flow volume is expected to

be 570 million cubic metres per annum, with a production peak of 740 million cubic metres per annum in 2010.

The Northern Territory government sees the new gas supply as ensuring energy security, as the Amadeus gas-field near Alice Springs is expected to gradually deplete. The Blacktip field is expected to be capable of supplying most of the Northern Territory's gas needs for at least the next 25 years.

Services agreement for PNG gas project

Esso Highlands Ltd (a subsidiary of Exxon Mobil Corporation) has awarded an agreement covering project services for the Papua New Guinea liquid natural gas project (PNG LNG) to the Eos joint venture, which is an unincorporated joint venture comprising WorleyParsons and Kellogg Brown & Root. The agreement extends to the end of 2014.

The agreement, referred to as an Enabling Agreement, facilitates requests from Esso Highlands to provide engineering, training, in-country support services and integrated project team services for construction and project management. It maintains Eos' engagement in the upstream component of the proposed development following the completion of Eos' current

FEED services contract. Services will be provided from Brisbane and a number of sites in Papua New Guinea.

Esso Highlands also awarded a contract to the Clough Curtain joint venture for civil engineering, construction and site preparation work to enable full-scale construction to start early next year. The joint venture partners are Clough Niugini and PNG-based Curtain Bros.

These two contracts, comprising an investment of nearly \$750 million, are seen as a vote of confidence by the owners of the project for it to go ahead. A final investment decision is expected by the end of this year. The project owners are ExxonMobil, Oil Search, Santos, Nippon Oil and local land owners.

The project will include two 6.3Mt/a LNG trains in the first phase of the development and a proposed third train with a capacity of 3.15Mt/a at a later stage.

Gold mine contract

The minerals business of engineering consultant Ausenco has been awarded the EPCM contract for the Gosowong gold extension project in Indonesia, operated by gold miner Newcrest. The value of the capital works under Ausenco management is nearly \$100 million.

Ausenco's CEO Zimi Meka said the company has been involved with the project since the feasibility study commenced in early 2008.

The Gosowong extension is designed to increase targeted gold production by mid 2010.



in Australia

Board

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Noel Williams (deputy chair)
Russel Scott
(immediate past chair)
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(chair Nominations Committee)
Ainslie Just
(honorary treasurer)

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Peter Ashman (South Australia)
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Hendrik Tait (Queensland)
Merv Jones
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Matt Hardin
(Roadmap Project)

Executive Director

Jan Althorp

Suite 11–2/488 Bourke St, Melbourne, 3000
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ENGINEERS AUSTRALIA

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NCO&G chair)
John Waanders (immediate past
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Brian O'Neill (South Australia)
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Debashis Raha (Sydney)
Lindsay Wheeler (Victoria)
Andre Jemison (Young Engineers)
Georgina Wright (Women in
Engineering)
Iven Mareels (Corresponding)

College contact

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11 National Circuit, Barton ACT 2600
phone 02 6270 6558 email bchaffey@engineersaustralia.org.au

NEWS

New international IChemE president

Ian Shott, CEO of pharmaceutical services company Excelsyn, is the new international president of IChemE. He succeeded Richard Darton, head of engineering science at Oxford University. In his presidential address he discussed the concept of accelerated evolution and outlined the key role biosciences will play in the future of chemical engineering.

“Chemical engineers can lead the drive towards lower carbon dependency, driving dramatic waste minimisation and a diverse and sustainable knowledge based economy with a balanced portfolio of biological, chemical and physically based resources and technologies,” Shott said.

“My vision for IChemE describes an Institution that is larger, both in terms of membership and influence. We are more diverse in terms of membership, technology, industrial application, business and in our geographical reach. We will focus resolutely on value delivery, and just like the multi-product facility that will supply future consumer needs, IChemE will also be flexible and capable of offering differentiated products and services to new communities of members responding to professional and commercial demands and

capital flows,” he said.

Shott is founder, majority owner and CEO of Excelsyn, an integrated contract development and manufacturing services business focused on the global pharmaceutical supply chain.

He will be succeeded next year by the new deputy president Dr Desmond King, outgoing CEO of Caltex in Sydney.

Associate Professor David Shallcross, head of chemical and biomolecular engineering at Melbourne University, was also appointed to the IChemE’s governing

Council. He is the new qualifications vice-president, succeeding Colin Grant, dean of engineering at Strathclyde University, Scotland.

IChemE chief executive David Brown said he looks forward to working with Shott, King, Shallcross and other new Council member Martyn Poliakoff. “The next year will be a challenging time, but chemical and biochemical engineers, and the process industries they serve, will be central to the economic recovery we anticipate.”

Award in honour of Don Nicklin

A new medal in memory of Prof Don Nicklin, the late long-standing head of chemical engineering at Queensland University, will be the top prize at the IChemE awards for innovation and excellence later this year.

The Nicklin Medal, sponsored by BP, will be awarded to the best entry across all 11 award categories. The 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.

Alongside his role at Queensland, Nicklin was a successful consultant with positions on several industrial institutes and research bodies. He is also a former chairman of IChemE in Australia.

The awards take place at York Racecourse, UK, on 3 November 2009. Entries are being sought internationally and further information can be found at www.icheme.org/awards.

HAZOP COURSES

Orica – 2009 Course Schedule

	Sydney	Brisbane	Melbourne	Adelaide	Perth
Basic HAZOP	16 & 17 Sept	10 & 11 Nov	18 & 19 Aug	22 & 23 Sept	24 & 25 Nov
HAZOP Leader	23 & 24 Sept	12 & 13 Nov	20 & 21 Aug	24 & 25 Sept	26 & 27 Nov

These popular and highly respected 2 day courses are now in their 19th year. If desired, courses can be run in-house and customised to meet your requirements. For further information please contact:
 Brisbane/Perth: Dean Shewring (02) 9913 7284, Sydney: Karin Nilsson (02) 9985 1056
 Melbourne/Adelaide: Myrna Hepburn (03) 9527 1037



**CHEMECA
2009**

Celebrating **40** Years

Engineering our Future: Are We Up to the Challenge?

27 - 30 September 2009
Perth, Western Australia
Burswood Entertainment Complex
www.chemeca2009.com

Chemeca 2009 at the Burswood Entertainment Centre, Perth is shaping up to be a fantastic event with more than 350 papers from 20 countries being presented over 3 days.

Registrations now open
online at www.chemeca2009.com

Chemeca 2009 "Engineering our Future: Are We Up to the Challenge?" will not only be a showcase for new knowledge but also a forum to discuss current issues. The industry and academia leaders will present their visions for the future, especially in the Australasian context. The diverse range of delegates, papers and presentations will promote synergies and collaborations between academia and industry and inspire all participants to contribute to the future.

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Abstract Submission

If you have not received information regarding your abstract submission please contact the Conference Secretariat directly via email, program@icms.com.au, or phone +61 3 9682 0244.

Chemeca 2009 - Half Day Site Tours

Join us for a programme of exciting half day bus tours and let Chemeca 2009 be the catalyst that inspires us all to accept the challenge of "Engineering our Future".

Conference Office

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www.chemeca2009.com



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NEWS

Forum to discuss academia/industry interface

An academia-industry forum for IChemE members is to be held on Sunday 27 September in Perth. Titled Exploiting academic-industry expertise: addressing workforce issues. How talented is the pipeline?, the forum is a joint project with the Business Higher Education Round Table (B-HERT).

Guest speakers will be Emeritus Professor Robin King, project manager and report author of Engineers for the Future, Russell Scott, managing director and CEO of Uhde Shelden Group, Professor Max Lu, chair of the IChemE in Australia Board and federal government representatives (TBC).

The forum is designed to explore workforce issues relating to chemical and process engineering such as:

- Industry and academia working together.

- What is happening in universities?
- Industry expectations and perceptions of university.
- Are university graduates meeting industry needs?
- What kind of university programs really work for industry, or for both industry and academics?
- How are companies involved in ensuring the talent pipeline?
- Are there enough graduates for industry needs?



The forum is designed to explore the future of chemical engineering regarding the industry/university interface, provide a summary regarding academic-industry opportunities and take away action for universities, through their industry advisory committees, and industry, through

its partnerships with universities, to strengthen the authenticity of chemical engineering students' education.

Apart from IChemE members, also welcome are chemical engineering industry representatives, industry HR managers, members of chemical engineering departments' industry advisory committees, deans of engineering and chemical engineering faculty/postgraduate students.

The forum will be held adjacent to the Burswood Entertainment Centre starting at 2pm, before the official Welcome Function for Chemeca 2009.

More details will be available shortly, but email austmembers@icheme.org now to register your interest to attend the IChemE Member Forum 2009.

NEW Course <i>Coal Seam Methane - A Technical Overview</i> 11th - 12th November in Perth 1st - 2nd December in Brisbane		NEW Course <i>Coal Seam Methane - A Non Technical Overview</i> 13th November in Perth 3rd December in Brisbane
ESD Simulation Training <i>Dynamic Simulation Training Specialists</i> TRAINING COURSES		
<i>Practical Aspects of Process Control and Instrumentation</i> 20th - 22nd July in Perth		
<i>Practical Aspects of Compressor Control using the CCC System</i> 6th - 7th October in Perth		
<i>Mechanical Aspects of Centrifugal Gas Compressors</i> 8th - 9th October in Perth		
<i>Control Operation & Design of Reciprocating Gas Compressors</i> 12th - 13th October in Perth		
<i>Control & Operation of Centrifugal Gas Compressors</i> 14th - 16th October in Perth		
<i>Floating LNG - Production Storage Offloading and Re-gasification</i> 19th - 20th October in Perth		
<i>Production Process & Emergency Systems on Oil & Gas Installations</i> 9th - 11th November in Perth		
For more information contact: Daren Reid, ESD Simulation Training Pty Ltd Tel: (08) 9355 5599 Email: daren.reid@esd-simulation.com		
 www.esd-simulation.com		

Boost in journal downloads

Downloads of research papers published in IChemE journals have more than doubled in the first quarter of 2009.

IChemE papers were downloaded over 88,000 times between January and March compared to around 33,500 downloads during the same period in 2008.

Last year, IChemE's publishing partnership with Elsevier saw the Institution's online journals transferred to Elsevier's ScienceDirect platform.

IChemE publishes four research journals, Chemical Engineering Research and Design, Process Safety and Environmental Protection, Food and Bioproducts Processing, and Education for Chemical Engineers. The journals are also the official journals of the European Federation of Chemical Engineering (EFCE).

Honorary editor John Perkins said the growing interest represents a trend shift among users: "This is excellent news and demonstrates both the increased visibility IChemE journals enjoy on ScienceDirect and the growing trend among students, researchers and academics in using online research journals to support their work.

"With a growing audience and online reach, these new figures will also help us persuade even more authors to publish their work with IChemE," he added. Perkins is vice-president and dean of engineering and physical sciences at Manchester University.

For more information, visit www.icheme.org/journals and www.sciencedirect.com.

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NEWS

An animated approach to safety training

IChemE has published the latest title in its safety animation series.

The animations – a joint venture with BP – use past incidents as case studies for safety training.

The new animation covers the 1979 Bantra Bay ship explosion and fire where an oil tanker exploded in Cork, Ireland, at the offshore jetty of the Whiddy Island Oil Terminal. The explosion killed 50 people and the animation includes lessons learned relating to hazard identification, loading/unloading operations, safe operations and jetty fire protection.

IChemE publications manager Claudia Flavell-While said: “The animations are a clear and compact illustration of what went wrong, and the lessons other industrial installations and process plants can learn from them.

Other incident-based animations cur-

rently available include the 1974 Flixborough explosion, the 1987 Grangemouth hydrocracker explosion, the 1987 capsizes of the MS *Herald of Free Enterprise* ferry and the 1988 Piper Alpha platform fire. A free animation dedicated to the ferry capsizes can be downloaded at www.icheme.org/heraldoffreeenterpriseanimation.

IChemE annual review available

IChemE's 2008 annual review is now available for download at www.icheme.org/annualreview.

The review looks back at a record-breaking year for the Institution, highlighting many of the year's most memorable moments and key developments.

At the close of 2008, IChemE had a record number of members and a growing international presence. In the UK, universities

The animations complement the BP Process Safety booklets, also on sale via IChemE. The animations can be used as stand-alone training modules or as supplementary material for a range of safety courses.

You can view more information at www.icheme.org/bpanimations.

celebrated a record chemical engineering undergraduate intake and an all-time high number of students studying the subject.

The review also includes reports written by IChemE president Richard Darton and chief executive David Brown.

A limited number of print copies are also available. To request a print copy, contact mstalker@icheme.org including a preferred mailing address.



Training courses in Australia 2009

**HAZOP study for team leaders
and team members**

Adelaide, SA 14–16 July 2009

Contracts course

Perth, WA 12–13 November 2009

Contact: Victoria Reznikov

Email: austcourses@icheme.org

Tel: +61 (0)3 9642 4494

IChemE
heart of the process

TECHNICAL PROGRAMS THROUGH EEA & PARTNERS

EEA and ASME present :

Design and Fabrication of Pressure Vessels

Perth 13-15 July and Sydney 20-22 July

Inspection, Repairs & Alterations of Pressure Vessels

Perth 16-17 July and Sydney 23-24 July

For those involved with the purchase, design, fabrication or inspection of pressure vessels.

EEA and AMOG Consulting present:

System Safety Engineering Master Class

Melbourne 17-21 August and Perth 19-23 October

For those involved in the design, maintenance, operation and/or management of systems or equipment with potential safety implications.

THINK CPD THINK EEA

We invite you to contact us at:

Suite 202, 21 Bedford St, North Melbourne, Vic 3051

w: www.eeaust.com.au e: info@eeaust.com.au

p: +61 3 9274 9600 f: +61 3 9326 9888



Engineering Education Australia



ENGINEERS
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CHEMICAL ENGINEERING JUNE 2009 IN AUSTRALIA

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EVENTS

AUSTRALIA

Conference: Molecular modelling from dynamical, biomolecular and materials nanotechnology perspectives (4 days) 26 Jul. *Inquiries:* web web.aibn.uq.edu.au/mm2009

Conference: Chemeca 2009 (4 days) Perth 27 Sep. *Inquiries:* web www.chemeca2009.com

Seminars: Mechanical aspects of centrifugal gas compressors (2 days) Perth 8 Oct; **Floating LNG – production storage offloading and regasification** (2 days) Perth 19 Oct; **Production process and emergency systems on oil and gas installations** (3 days) Perth 9 Nov; **Design & Operation of FPSAs** (3 days) Perth 16 Nov. *Inquiries:* Darren Reid 08 9355 5599, email darren.reid@est-simulation.com

Conference: What's new in laboratory instrumentation (1 day) Sydney 21 July; **11th Pacific polymer conference / 31st Australasian polymer symposium** (5 days) Cairns 6 Dec. *Inquiries:* web www.raci.org.au/

Conference: Seventh international conference on computational fluid dynamics in the minerals and process industries (3 days) Melbourne 9 Dec. *Inquiries:* web www.cfd.com.au/cfdconf

OVERSEAS

Conference: 2nd international conference on self-healing materials (4 days) Chicago 29 Jun. *Inquiries:* Dr Solar Olugebefola +1 217 333 2578, fax +1 217 244 0181, email solar@illinois.edu, web conferences.beckman.uiuc.edu/ICSHM2009

Conference: XVII international conference on chemical thermodynamics in Russia (5 days) Moscow 29 Jun. *Inquiries:* Prof J D Tretjakov +78 495 939 2074, fax +78 495 939 0998, email rcct2009@kstu.ru, web rcct2009.kstu.ru

Conference: 13th international IUPAC conference on polymers and organic chemistry (5 days) Montreal 5 Jul. *Inquiries:* Prof Will Skene +1 514 340 5174, fax +1 514 340 5290, email wskene@umontreal.ca, web www.poc09.com

Conference: 19th international symposium on plasma chemistry (6 days) Bochum 26 Jul. *Inquiries:* Prof. Achim von Keudell +49 234 322 3680, fax +49 234 321 4171, email Achim.vonKeudell@rub.de, web www.ispc-conference.org

Conference: 22nd international congress on heterocyclic chemistry (6 days) Newfoundland, Canada 2 Aug. *Inquiries:* Prof Mohsen Daneshtalab +1 709 777 6958, fax +1 709 777 7044, email mohsen@mun.ca, web www.ichc2009.ca

Conference: Advances in emulsion polymerisation and latex technology (5 days) Davos, Switzerland 3 Aug. *Inquiries:* Dr John Schork +1 301 405 1074, email davoscourse@gmail.com, web www.davoscourse.com

Conference: 8th world congress of chemical engineering (5 days) Montreal, Canada 23 Aug. *Inquiries:* web www.wcce8.org

Conference: 42nd IUPAC Congress: Chemistry Solutions (6 days) Glasgow, UK 2 August. *Inquiries:* web www.iupac2009.org

Conference: 5th international workshop on infrared microscopy & spectroscopy with accelerator based sources (5 days) Banff, Canada 13 Sep. *Inquiries:* web www.lightsource.ca/wirms2009

ENGINEERS AUSTRALIA PROFESSIONAL STANDARDS SCHEME

Now available to Chartered members of Engineers Australia and their companies

The Engineers Australia Professional Standards Scheme can reduce the amount of liability you and your company will be subject to if you are sued in relation to engineering and related services. It does this by means of a monetary cap on the court judgement that can be awarded. The cap applies to legal actions for economic loss or property damage, but excludes personal injury and death.

The Scheme is designed not only to limit civil liability but also to improve the occupational standards of the profession and to protect the consumers of engineering services.

For further information on the scheme visit our website, obtain a copy of our free Professional Standards Scheme CD Rom, or visit your Division office for more information.

www.engineersaustralia.org.au/estpss

The Scheme is set up in accordance with the Professional Standards Acts of NSW, Victoria, Tasmania, Northern Territory, Queensland, South Australia, and Western Australia, and the Civil Law (Wrongs) Act of the ACT (the legislation). The scheme is not yet in force in Victoria or South Australia. The Scheme will come into force on 1 July 2009 in Victoria.



ENGINEERS
AUSTRALIA

IChemE 2009 awards for innovation and excellence



Tuesday 3 November 2009

York Racecourse, UK

Hosted by Derek Thompson

Entries are now being accepted for
IChemE's 2009 awards programme

Entry deadline: 31 July 2009

www.icheme.org/awards Email: awards@icheme.org

For sponsorship enquiries or to book your place, contact Nigel Stephens
Email: nigel.stephens@mainlinemedia.co.uk Tel: +44 (0)1536 747333



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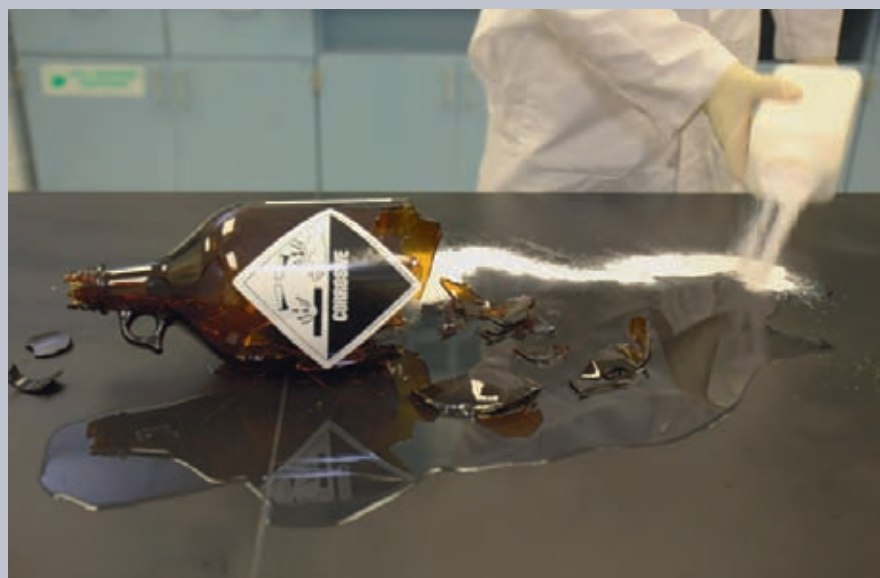
CHEMICAL ENGINEERING

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IN AUSTRALIA

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NEW PRODUCTS



Fast-Act can neutralise spills of toxic chemicals.

Neutralising toxic chemical spills

A laboratory safety kit to neutralise toxic liquid spills or vapour is being introduced into Australia by Enware.

Fast-Act is available in 70g, 300g, 500g, 3kg and 5kg shaker tubs or in 1kg, 2kg and 4kg pressurised cylinders. Shaker

bottles and pails are also available.

The product reduces the need to have multiple spill kits as it reacts with a wide range of acids, halogenated, phosphorus and organic compounds.

www.enware.com.au

Mass spectrometry

Agilent Technologies has introduced the 6430 triple quadrupole liquid chromatography and mass spectrometry system.

The Agilent 6430 is suited for food testing, water analysis and protein biomarker discovery and validation.

The instrument is equipped with a turbo pump for ion transmission and better sensitivity. It can also switch from positive ion mode to negative in 30ms. This allows greater flexibility to analyse complex mixtures and for exploiting the most prolific ions.

The device is bundled with new MassHunter software that enhances sensitivity and reproducibility for complex analyses. The instrument also comes with method optimisation software.

www.agilent.com

Temperature control

Yokogawa's temperature controller with a sequence control function, the UTAdvanced, offers improved measurement, display, operation, control and networking functions. It also reduces the need for peripheral devices and associated wiring.

UTAdvanced combines PID control with an embedded PLC ladder sequence control. The device supports 84 ladder commands, 24 DIO points, four analogue inputs and three analogue outputs. It allows up to 400 ladder steps to be programmed and run together with the PID control.

The UTAdvanced has a high-intensity colour LCD display, full text scrolling

Software for process plants

Honeywell has released its Manufacturing Execution System (MES) Quick Start software for small and medium process businesses. It has been designed to manage processes and data across the supply chain in industries such as minerals and metals, oil and gas, liquefied natural gas and petrochemical refining.

The software manages production information, including the status of production runs, detailed unit operations, inventory and movement quantities, and conversion factors. Preconfigured reports are delivered through a defined implementation program. MES Quick Start includes key applications from such as Uniformance Process Historian Database, Uniformance Process Studio and BizCalc Manager.

MES Quick Start is an alternative to generic spreadsheets and databases that are often incompatible and inconsistent. By collection production plans and schedules, communicating approved activities to operators, and validating production information, collaboration between supply chain planning, production planning and plant operations is improved.

www.honeywell.com.au/ps



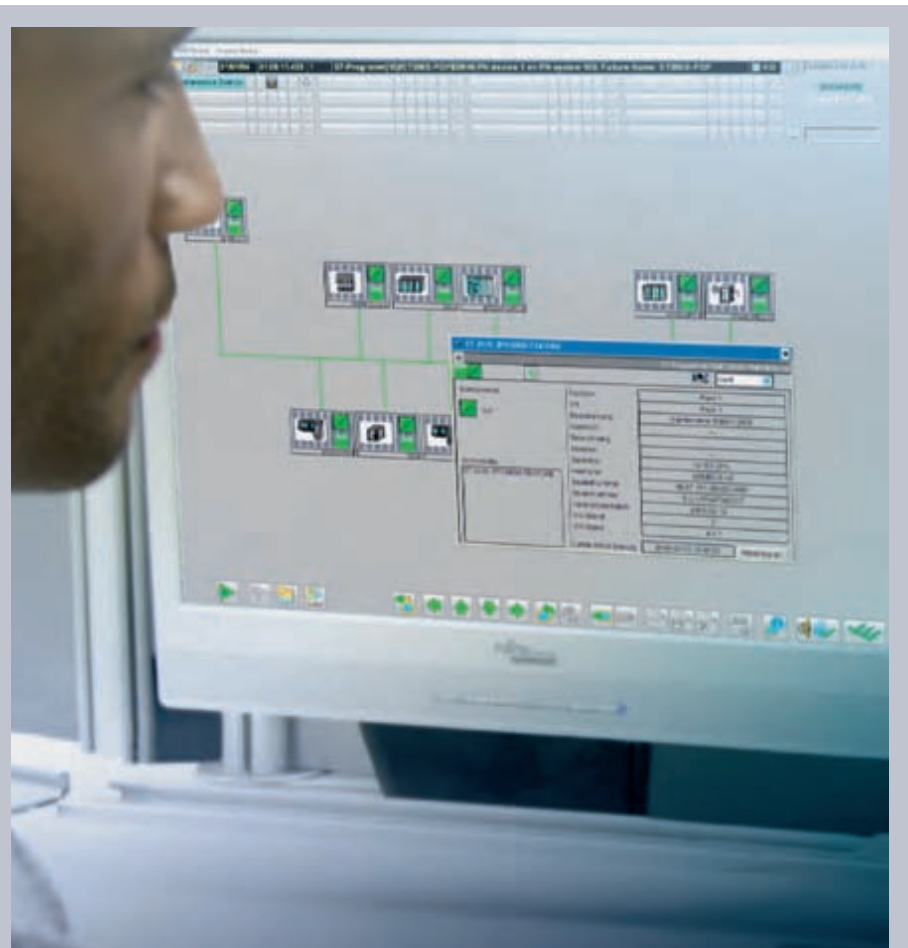
UTAdvanced combines PID control with an embedded PLC ladder sequence control.

configuration prompts, three configuration levels and user-defined function keys.

Its communication platforms include Ethernet, Profibus-DP and RS485, which support Modbus/TCP, Modbus RTU, peer-to-peer and master/slave protocols.

www.utadvanced.com

NEW PRODUCTS



The operator can refer to the display to identify and assess components.

Maintenance system for plant and machinery

Siemens has upgraded the Simatic Maintenance Station software for diagnosis and maintenance of plants and machinery, with new features focusing on diagnostic functionality and plant asset management.

The software option for the Simatic WinCC SCADA system now offers functions for planning and monitoring of maintenance operations. It also allows devices to access the Simatic Maintenance Station via a web client for remote maintenance. For example, panel PCs with touch controls can be used to carry out diagnostic measures on-site.

The software visualises diagnostic and maintenance information from

PCs, network components, controllers, switching, protection and control units, and drives. The operator can refer to the display to identify components, systems and plant units, assess them individually, and, where appropriate, respond.

The software passes on maintenance requests to other target systems, such as a computer. All operations are message-based and easy to archive, creating a database that can be analysed with WinCC.

Maintenance Station uses Step 7 project data from the plant set-up phase. Components from other manufacturers are incorporated using standards-based procedures.

www.siemens.com.au

Reverse osmosis analysis

Dow Water & Process Solutions has launched the newest version of its Reverse Osmosis System Analysis (ROSA) program.

Features of ROSA 7.0 include:

- permeate split-stream calculations that can model partial two-pass designs
- internally-staged design configurations, allowing for two or more element types within the same pressure vessel to balance vessel hydraulics and maximise system production
- advanced modelling of seasonal temperature ranges on long-term membrane performance
- user-defined pre-stage pressure drop
- improved element value analysis.

www.dow.com

Washdown terminal

Turck has introduced an integrated terminal chamber for its line of uprox+ sensors that conforms to FDA requirements for washdown environments, including food and beverage industry applications.

It includes removable terminals for easy mounting using screws or cage clamps. By rotating the cover by 180 degrees, the user can select either a straight or 90-degree cable exit.

www.turck.com.au



Integrated terminal chambers for uprox+ sensors are now available.