

CHEMICAL ENGINEERING

AUGUST 2011

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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Australian to help crank up US manufacturing

Australian chemical engineer Andrew Liveris, chairman and CEO of Dow Chemicals in the US, has been appointed by US president Barack Obama to cochair the country's newly formed Advanced Manufacturing Partnership. The other cochair is Susan Hockfield, president of the Massachusetts Institute of Technology.

The partnership includes major US manufacturers, engineering universities and government technology leaders. Its aim is to "build a roadmap for advanced manufacturing technologies, accelerating ideas from the drawing board to production and competitive advantage in the marketplace, and to ensure a vital and globally competitive manufacturing sector".

"I am honoured to have been selected to cochair the Advanced Manufacturing Partnership," said Liveris at the launch ceremony at Carnegie Mellon University. "This partnership draws together three mission critical elements: academia, industry and government. A united – and non-partisan – approach must underpin our effort as we mobilise to renew and extend our manufacturing competitiveness."

During his visit to the Australian American Leadership Dialogue in Perth this month, he told the *Australian* newspaper that he has been lobbying Australian political and business leaders to set up a similar advanced manufacturing taskforce in this country.

Australia has great entrepreneurs and innovators but has lacked the domestic



Andrew Liveris would be prepared to assist Australia in setting up an advanced manufacturing taskforce.

sector to scale up its innovations, he said.

"I think it would make great sense for Australia to adopt an advanced manufacturing agenda to value-add its resources."

Both sides of politics should look at the American template, he said, adding that he would be prepared to contribute with his knowledge of both countries.

Last year, Liveris launched his company's Advanced Manufacturing Plan for America (AMP), and early this year his book titled *Make It In America: The Case*

for *Re-Inventing the Economy*, was published. The book articulates the AMP in detail.

Liveris said Dow is exploring gas-processing opportunities in Australia. The company's Australian division currently generates about 5% of its global revenue. At present the company is preparing to build a US\$20 billion petrochemical complex in partnership with Saudi Aramco in the Saudi city of Jubail. The plant will produce chemicals and plastics.

Australian chemical engineers well paid

Australian chemical engineers command the highest average salaries compared with the US and the UK, according to the 2011 salary survey by the American Institute of Chemical Engineers. While the average salary for chemical engineers in Australia was quoted as A\$124,500, chemical engineers in the US earned on average US\$110,000 (about A\$113,000)

and those in the UK were on £50,000 (about A\$80,000).

Since the last survey in 2009 salaries stagnated, which was the first time since 1992 that salaries had not increased.

The highest paying functional area was management and the highest paying region was Alaska.

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IN AUSTRALIA

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NEWS

Research and industry to meet at Chemeca

A high-powered mix of keynote speakers from academia, research and industry will be presenting addresses at this year's Chemeca Conference, held in Sydney on 18-21 September (www.chemeca2011.com).

NSW chief scientist and engineer Prof Mary O'Kane will open the conference on Monday 19 September, followed by Sir William Wakeham, international president of IChemE, and vice-president and honorary international secretary of the Royal Academy of Engineering in Britain. He will examine the ways in which the chemical engineering profession is addressing some of the key challenges facing humanity and argue that the profession must continually expand its boundaries.

Other distinguished speakers from academia will be Martyn Poliakoff, acclaimed professor of chemistry at the University of Nottingham, UK, and Professor Maria Flytzani-Stephanopoulos from Tufts University in the US who will speak on "Nanocatalysis for sustainable energy".

Industry representatives will include Jim McIlvenny, group senior vice-presi-



Prof Mary O'Kane will open the conference.

dent for mega projects at the Dow Chemical Company; Julian Segal, managing director and chief executive officer of Caltex Australia; and Ross McCann, executive chairman of Qenos.

They will speak at a special Industry Leaders Plenary Session, which will be opened by Prof Margaret Sheil, CEO of the Australian Research Council, on behalf of Kim Carr, federal minister for innovation, industry, science and research.

There will also be a special session on applied catalysis, in memory of Prof David Trimm, a pioneer in catalysis research who died last year.

The conference will also include interactive poster sessions featuring 100 posters of research papers. The posters will be judged, with one winner and five runners-up being selected.

The third day of the conference will be open for senior high school students to attend.

A more light-hearted, but nevertheless serious, event will be the Chem-E-Car competition for chemical engineering students from universities in Australia and New Zealand. The competition will pitch shoebox-sized vehicles propelled by a chemical reaction against each other.

There will also be a High School Fuel Cell Car Competition.

Excellence in chemical engineering will be celebrated during the conference dinner, when the prestigious Chemeca awards will be announced, with the top award being the Chemeca Medal.

IChemE
in Australia

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NEWS

Grants for brown coal research

Several research projects related to brown coal have received funding from Brown Coal Innovation Australia (BCIA). This month BCIA announced grants for the assessment of hydrogen production and export from Victoria, and for research aimed at reducing carbon dioxide emissions from brown-coal-fired powerstations by increasing the efficiency of a direct injection coal engine.

The hydrogen project, to be carried out by HRL Developments in association with Japan's Kawasaki Heavy Industries, has received \$300,000. It will examine the technical and economic merits of various options for producing hydrogen from Latrobe Valley brown coal, at both pilot and commercial-scale.

The emissions project, to be carried out by CSIRO Advanced Coal

Technology and Exergen, will receive \$1.3 million. It will investigate high-efficiency power generation using processed brown coal in an adapted diesel engine. It expects to achieve a 45% reduction in CO₂ emissions.

In June, BCIA announced up to \$4.2 million for six projects. One of these projects is a solvent absorption process for capturing carbon dioxide from power generation. This project will be headed by chemical engineer Professor Geoff Stevens from the Cooperative Research Centre for Greenhouse Gas Technologies (CO2CRC) and the Department of Chemical and Biomolecular Engineering at Melbourne University. The solvent absorption process has the potential to reduce the costs of capture by 15% to 20%.

The CO2CRC is a joint venture comprising participants from Australian and international industry, universities and other research bodies from Australia and New Zealand, and Australian federal, state and international government agencies.

The other projects include trials to determine the merits of using brown coal to improve soil health and plant yields, and research of processing methodologies to reduce spontaneous combustion of dried or dewatered brown coal.

BCIA is an independent not-for-profit company established in 2009 by the Victorian government with a mandate to help secure the future of brown coal by increasing efficiencies of use and reducing carbon dioxide emissions when burnt for power generation. Its primary focus is to accelerate, develop and promote early-stage science and engineering technologies. Its funding comes from government and industry sources.



It's not what you know, it's what you don't know

Control, Operation & Design of Reciprocating Gas Compressors

Perth 19th – 20th September

Melbourne 21st - 22nd November

Control & Operation of Centrifugal Gas Compressors

Perth 21st – 23rd September

Melbourne 23rd – 25th November

Floating LNG – Production Storage Off-loading & Re-gasification

Perth 26th – 27th September

Design and Operation of FPSOs

Perth 28th – 30th September

Subsea Systems

Perth 4th – 5th October

Practical Aspects of Compressor Control using the CCC System

Perth 6th – 7th October

Production Process and Emergency Systems on Oil & Gas Installations

Perth 12th - 14th October

DAREN REID +08 9355 5599 DAREN.REID@ESD-SIMULATION.COM

www.esd-simulation.com

IChemE Council visit an Australian first

IChemE Council members will be joining president Sir William Wakeham to convene a Council meeting for the first time in Australia during the Chemeca 2011 conference next month.

Wakeham and fellow Council members who are able to make the visit, will also use this opportunity to conduct seminars and meetings in Australian capital cities, including Hobart and Canberra, along with sessions scheduled for Gladstone and Newcastle. To take advantage of their visit to the Asia Pacific region, seminars and meetings have also been scheduled for Singapore, Wellington and Christchurch.

This visit will also provide an opportunity for the Council and president to meet with IChemE's Australian and New Zealand board members and it will give IChemE members and visitors during Chemeca a chance to meet with senior industry and academic chemical engineering luminaries from outside the Asia Pacific region.

Fliers for these events will be available shortly. Further details will be announced on the IChemE website (www.icheme.org) and event bulletins.



18-21 September 2011
Hilton Sydney | New South Wales, Australia



ICHEME
SCIENCE + CHEMISTRY IN NZ

ICHEME
in Australia



Chemeca Conference Preview

A high-powered mix of plenary speakers from academia, research and industry will be presenting addresses at this year's Chemeca Conference, held in Sydney on 18-21 September (www.chemeca2011.com).



Opening Address to expand boundaries

NSW Chief Scientist and Engineer Prof Mary O'Kane will open the conference on Monday 19 September, followed by Sir William Wakeham, international president of IChemE, and vice-president and honorary international secretary of the Royal Academy of Engineering in Britain. He will examine the ways in which the chemical engineering profession is addressing some of the key challenges facing humanity and argue that the profession must continually expand its boundaries.

Wakeham had a distinguished career in academia culminating in his position as vice-chancellor of the University of Southampton until 2009.



Nanocatalysis for sustainable energy

Other distinguished speakers from academia will be Martyn Poliakoff, acclaimed professor of chemistry at the University of Nottingham, UK and Professor Maria Flytzani-Stephanopoulos from Tufts University in the US who will speak on "Nanocatalysis for sustainable energy".



Industry Leaders Session

Industry will be represented by Jim McIlvenny, group senior vice-president for mega projects at the Dow Chemical Company, Julian Segal, managing director and chief executive officer of Caltex Australia and Ross McCann, CEO and executive chairman of Qenos and 2010 Chemeca medallist.

They will speak at a special Industry Leaders Plenary Session, which will be opened by Prof Margaret Sheil, CEO of the Australian Research Council, on behalf of Kim Carr, federal minister for innovation, industry, science and research.



International Year of
CHEMISTRY
2011

Four of the 2011 top 100 most influential engineers will speak at Chemeca 2011

Prof Aibing Yu (Tuesday)
Prof Dongke Zhang (Tuesday)
Prof Hugh Durrant Whyte (Wednesday)
Mr Julian Segal (Tuesday)

Interactive Posters

One of the highlights at the conference will be the interactive posters sessions featuring 200 posters of research papers. The posters will be judged by eminent chemical engineers and scientists, with one winner and five runners-up being selected.



Professor David Trimm

David Trimm Memorial Session

A session on Applied Catalysis will be held on Tuesday 20 September 2011 in memorial to Professor David Trimm

www.chemeca2011.com

Conference Office

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NEWS

Chemical leak results in review of procedures

Chemical manufacturer Orica has undertaken to review its notification procedure of incidents following the leak of diluted airborne sodium chromate from its Kooragang Island facility in Newcastle in the evening of 8 August. The company informed the authorities only the next morning, and it took the authorities another two days to advise the local community.

The leak involved sodium chromate, which contains chromium (VI). Droplets of the chemical were deposited within the Orica site and the nearby suburb of Stockton. These droplets are yellowy brown in colour.

According to Orica's website, chromium is a naturally occurring element found in soil and rocks. It is released into the environment by natural and man-made processes. It exists in three forms: chromium (0), chromium (III) and chromium (VI). Chromium (VI) is the most toxic of these forms but will transform to chromium III in the natural environment in about 10 days. Chromium (III) is



The Orica site at Kooragang Island produces ammonium nitrate for use in the mining industry, and ammonia and nitric acid for use in industrial and agricultural applications.

important in certain biological processes.

The Orica plant will remain shut down until the NSW government completes its investigation.

Orica has undertaken a clean-up of properties in the area affected by the incident.

It has stated that it "regrets the incident and will undertake a full investigation into all aspects of the incident, including the notification process".

The NSW Department of Health stated there were no health risks to the residents living near the plant.

Gas deal with Japan

The Tokyo Electric Power Company (TEPCO), which was thrown into the spotlight earlier this year due to the disaster at its ill-fated nuclear power plant in Fukushima following the devastating tsunami, has signed a deal with Chevron Australia for the delivery of ILNG from the Wheatstone project in Western Australia.

Under the agreement Chevron, together with Apache Energy and Kufpec, will deliver up to 3.1Mt/a of LNG to TEPCO for a period of up to 20 years. TEPCO is one of the world's biggest LNG customers.

Located at Ashburton North, 12km west of Onslow, the Wheatstone project will initially have two liquefied natural gas trains with a combined capacity of 8.9Mt/a and a domestic gas plant.

Student wins UK prize

Chemical engineering student Thakshila Balasuriya from The University of Melbourne has won the Malvern poster prize at the Colloids 2011 conference held in Britain last month.

A third year PhD student in the Dynamic Interfacial Forces Group, she won the prize for her work titled Dynamic Forces between Bubbles with Switchable Peptide Surfactants. Her thesis work focuses on nanoscale interactions in biomolecular systems in soft matter.

Malvern was one of the sponsors of the conference, which was jointly organised by the Royal Society of Chemistry's Colloid and Interface Science Group and the Society of Chemical Industry's Colloid and Surface Science Group.

Services contract for nuclear plant

Engineering services company Worley-Parsons has been awarded a consultancy services contract for a 4000MW nuclear power plant in Turkey.

The company reached agreement with Akkuyu NGS Elektrik Üretim Anonim Şirketi to provide consultancy services during the preconstruction

phase of the Akkuyu nuclear power plant to the end of April 2013 when the construction permit is scheduled to be obtained.

The project company was established between the Turkish and Russian governments under a cooperation agreement in relation to the plant.

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NOTICES

Process safety conference

Next month the IChemE will bring its Hazards conference symposium to Malaysia for the first time. Hazards Asia Pacific will be held on 27-29 September in Kuala Lumpur. It will be delivered jointly by IChemE and the Chemical Industries Council of Malaysia (CICM), and chaired by Petronas vice-president of downstream operations Kamarudin Zakaria and CEO of the Petronas Chemical Group Dr A Hapiz Abdullah.

Keynote speakers will include:

- Dr Johari Bin Basri, director general at Malaysia's Department of Occupational Safety and Health

- Mohd Tarmizi Munir, head of the Group Health, Safety and Environment Division at Petronas
 - Ian Travers, head of the Chemical Industries Strategy Unit at the UK Health and Safety Executive
 - Karon Armstrong, a senior regulatory specialist at 3M Medical in the US
 - Paul Haigh, nuclear industry expert and IChemE 2011 Council Medalist
 - Professor Jinsong Zhao, director at the Process Systems Engineering Institute at Tsinghua University, China.
- For more information about the event,

visit www.icheme.org/hazardsap or contact hazardsap@icheme.org. Reduced registration fees are available for groups of three or more people from the same company.

ACHEMA 2012

ACHEMA 2012, 30th international exhibition and congress on chemical engineering, environmental protection and biotechnology, will be held on 18-22 June 2012 in Frankfurt am Main in Germany. It is the world's biggest expo for these areas of engineering, with some 4000 exhibitors and 180,000 visitors expected to attend.

Organised by the DECHEMA Gesellschaft für Chemische Technik und Biotechnologie, the expo is held every three years.

The associated congress will include special sessions on bioeconomy, process technology and materials technology. The deadline for submitting contributions is 31 August 2011. For further information contact lecture@achema.de or phone +49 69 7564 254.

For information on ACHEMA go to www.achema.de, email achema@dechema.de.

Chemeca 2012 in NZ

Chemeca 2012 will be the first Chemeca conference hosted by SCENZ-IChemE since its formation in 2009. The conference will be held on 23-26 September in Wellington. New Zealand had originally bid for the 2010 conference but withdrew because the rugby world championships will be held there at the same time.

SCENZ-IChemE chair David Platts said two NZ industry leaders have already agreed to present plenary sessions. They are CEO of Auckland Uniservices Peter Lees and national manager for biological industries at the Ministry of Science and Innovation Max Kennedy.

For more information about Chemeca 2012 contact Jan Althorp at jalthorp@icheme.org.

IChemE training

Project engineering – fundamentals of a project lifecycle

26-28 October, Perth

This course provides a step-by-step description and illustration of a project's lifecycle in the chemical industry. Beginning with an introduction to the role, it then follows with life in an engineering house, proposals and contract types, greenfield projects, estimating tools, planning and scheduling, cut and carve projects, construction, commissioning leading to plant start-up and operation.

To register go to www.icheme.org/projeng. For training information contact austcourses@icheme.org or +61 (0)3 9642 4494.

Chemical engineering for non-chemical engineers

28-30 November, Melbourne

This intensive 3-day course offers an introduction to some of the main subject areas involved in chemical engineering disciplines, and will broaden the technology base of participants with a view to promote improved communication with chemical engineers. It is aimed at engineers and scientists working in the chemical and process industries, at government agencies who work in close collaboration with chemical engineers and companies who employ chemical and process engineers.

To register go to www.icheme.org/chemaus. For training information contact austcourses@icheme.org or +61 (0)3 9642 4494.

New address for IChemE in Melbourne

IChemE in Australia's new office in Melbourne is now open for business. IChemE in Australia's chair Noel Williams said the move heralds a new era for IChemE members in Australia and reflects the Institution's growth in recent years:

He said the office has become an integral part of IChemE's global operations

and will help the Institution to expand its membership base and provide improved member support.

The new office is still in Bourke Street, but the new location and postal address is Level 7, 455 Bourke Street. Phone and fax numbers are unchanged: T: +61 3 9642 4494, F: +61 3 9642 4495.



Hazards AP

27–29 September 2011, InterContinental Hotel, Kuala Lumpur, Malaysia

Economic growth and the process safety challenge

ICHEME and the Chemical Industries Council of Malaysia are pleased to announce the first Hazards Asia Pacific Symposium. Learning the lessons from the experience of others is a key feature which underpins good process safety management. Hazards AP will provide an essential forum for international experts and safety professionals to discuss the latest developments and share examples of best practice, with special emphasis and focus on the challenges facing chemical process operations within the Asia Pacific region.

For more information, including full programme and registration details please visit: www.icheme.org/hazardsap

Email: hazardsap@icheme.org
Tel: +44 (0)1788 578214

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CALENDAR

Sydney University's School of Chemical and Biomolecular Engineering is holding a symposium on the development of **new technologies for the capture of carbon dioxide** on 29 Aug in Sydney. Inquiries: www.cce.usyd.edu.au/course/sscc.

The **2011 World Engineers' Convention** will be held on 4-9 Sep in Geneva, Switzerland. Inquiries: www.wec2011.org or contact info@wec2011.org.

CHEMECA 2011, the annual chemical engineering conference jointly organised by Engineers Australia's Chemical College, the IChemE in Australia and New Zealand, and the Royal Australian Chemical Institute, will be held in Sydney on 18-21 Sep. Inquiries: www.chemeca2011.com.

The **8th European Congress of Chemical Engineering**, together with the **1st European Congress of Applied Biotechnology**, will be held on 25-29 Sep in Berlin, Germany. Inquiries: www.ecce2011.de.

The IChemE's **Hazards Asia Pacific Conference** will be held on 27-29 Sep in Kuala Lumpur. Inquiries: www.icheme.org/hazardsap or contact hazardsap@icheme.org.

The **Society for Sustainability and Environmental Engineering** is holding its **International Conference** on 24-26 Oct in Brisbane.

Inquiries: www.ssee2011conference.com, email ssee2011@icms.com.au or phone: +61 7 3844 1138.

The **Humanitarian Engineering Conference 2011**, organised by Engineers Australia, Engineers Without Borders and RedR, will be held on 30 Nov–2 Dec in Melbourne. For inquiries contact Nick Byrne at n.byrne@ewb.org.au. To register visit www.engineersaustralia.org.au, and click on Events.

An **Engineering Leadership Residential** – Leadership for Preferred Futures will be held on 5-10 Nov on the Sunshine Coast. Inquiries: www.eeaust.com.au

The **2012 Engineering Leadership Conference** will be held on 30 May–2 Jun 2012 in Adelaide. Inquiries: www.elc2012.org. Abstracts are due 26 Aug 2011.

ACHEMA 2012, the 30th international exhibition and congress on chemical engineering, will be held on 18-22 Jun in Frankfurt am Main in Germany. For information on ACHEMA go to www.achema.de, email achema@dechema.de. The deadline for submitting contributions to the congress is 31 Aug 2011. For further information contact lecture@achema.de or phone +49 69 7564 254.

CHEMECA 2012 will be held on 23-26 Sep in Wellington, New Zealand. Inquiries: Jan Althorp at jalthorp@icheme.org.

EA BOOKS

www.eabooks.com.au



Fluid Mechanics for Chemical Engineering

Mathieu Mory

\$218.18 + GST = \$240

2011 9781848212817 422pp Hardcover

The book aims at providing the basic knowledge in fluid mechanics for chemical engineers. Applications to mixing and reaction and to mechanical separation processes are addressed. The book presents the principles of fluid mechanics used by chemical engineers, deals with turbulence and its application for stirring, mixing and chemical reaction and addresses mechanical separation processes by considering the dynamics of particles in a flow and the processes of filtration, fluidisation and centrifugation. The mechanics of granular media is discussed.



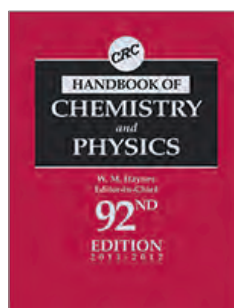
CRC Handbook of Chemistry and Physics, 92e

Ed: William M. Haynes

\$181.82 + GST = \$200

2011 9781439855119 2656pp Hardcover

Mirroring the growth and direction of science for a century, the CRC Handbook of Chemistry and Physics continues to be the most accessed and respected scientific reference in the world, used by students and Nobel Laureates. Among a wealth of enhancements, this edition analyses, updates and validates molecular formulas and weights, boiling and melting points, densities, and refractive indexes through comparisons with critically evaluated data from the NIST Thermodynamics Research Center.



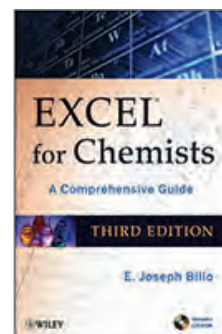
Excel for Chemists: A Comprehensive Guide, 3e

E. Joseph Billo

\$66.32 + GST = \$72.95

2011 9780470381236 760pp Paperback

Chemists across all subdisciplines use Excel to record data in tabular form, but few have learned to take full advantage of the program. Featuring clear step-by-step instructions, Excel for Chemists illustrates how to use the scientific calculating power of Excel to perform a variety of chemical calculations. Including a CD-ROM for Windows, this new edition provides chemists and students with a detailed guide to using the current versions of Excel (Excel 2007 and 2010) as well as Excel 2003.



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NEW PRODUCTS



The system is designed to improve the use of plant information and reduce lifecycle costs. It will also enable unified plant operations by integrating with other systems.

Control system for the process industries

Yokogawa Electric Corporation has announced the Release 5 of the Centum VP integrated production control system.

The system is designed to improve the use of plant information and reduce lifecycle costs. It will also enable unified plant operations by integrating with other systems.

In comparison with the company's previous field control station, the new control station will feature four times the processing performance, twice the application storage capacity, and five times the control network throughput.

Centum VP Release 5 also includes a unified gateway station (UGS) that improves integration with other systems, including PLC. Despite the differences in such systems, all of their operation windows will have the same appearance.

In oil and gas fields, and other applications where facilities may be scattered over a wide area, the UGS

can establish a link with the small-scale systems at each site as well as with the STARDOM network-based control system.

Yokogawa's consolidated alarm management software includes new functions specified in the ISA18.2 standard.

The system supports Windows 7 and Windows Server 2008 R2 operating systems.

www.yokogawa.com

Handheld device for oil and gas applications

Getac's handheld PDA, already accredited for explosive environments, has now been equipped with RFID capability for use in the oil, gas and petrochemical sectors.

The new functionality on the PS236 device enables real-time asset management. This coupled with the unit's IP67 and MIL-STD-810G ratings, and ATEX certification, make suitable for extreme environments with explosive atmospheres.

The new capability allows users to

input information from multiple types of HF RFID tags by inserting the certified RFID SDIO card into the handheld unit's SDIO card slot.

The PS236 can also be used as a 1D Laser barcode reader, for operations employing barcode technology.

The PDA can transmit information to a central database using WiFi, HSDPA and Bluetooth connections, which allow real-time inventory, document and asset tracking.

The PS236 unit also includes integrated GPS, an altimeter, an auto-focus 3 megapixel camera, an e-compass and a high-resolution display.

apac.getac.com

NEW PRODUCTS

Measuring volumes

Agilent Technologies has introduced the new Cary 60 UV-Vis xenon flash lamp technology intended for chemical, industrial, academic and pharmaceutical/biotech laboratories.

The Cary 60 UV-Vis uses a highly focused beam image to measure small volumes. In addition, with a scan rate of up to 24,000nm/min, the instrument makes it possible to scan the entire wavelength range (190nm–1100nm) in under three seconds.

Its fibreoptics capabilities allow for remote sampling of everything from bulk solutions to cold biological samples. This minimises sample handling, eliminates the need for expensive cuvettes and increases the speed of analysis without compromising data quality.

www.agilent.com



The Cary 60 UV-Vis uses a highly focused beam image to measure small volumes.

Lights for dangerous environments



Wormald is now distributing the Smith Light range, including the explosion-proof EX model designed as a safe option for the mining, petrochemical and energy industries.

Smith Light products can be used on worksites in a wide range of industries including utilities, railways, mining, emergency services, airlines, defence, hospitals and shopping centres. The Smith

The industrial LEDs have a battery life of 12-30 hours.

Light range is ideal for indoor and outdoor maintenance applications where mains or generator power cannot be accessed.

The self-contained lights, with a battery life 12-30 hours, can be used as beacons, spotlights, floodlights and searchlights. Made of automotive-type ABS and polycarbonate, Smith Light products can be fixed to tripods, scaffolding, cross beams and walls.

The EX90L area illumination light has been designed for safe use in wet, dusty or potentially volatile environments, such as mines, quarries, oil refineries, oil and gas installations. It features a battery life of 12 hours, and a tilting and twin-sided light head. Weighing 8.4kg, this model is portable.

The industrial LEDs IN120L, IN120LB, TM120L and TM120LB have a fully sealed light head. Weighing between 7.7kg and 10.8kg, depending on battery size, the lights are all double sided, with adjustable, tilting heads.

The RadioRay searchlights come as either permanent mounted or portable options which feature a suction cap for fixing to the tops of vehicles. They are UV- and saltwater-resistant for land and sea applications.

www.wormald.com.au

Database released

Intergraph has released the newest version of Standard Database for SmartPlant Reference Data, a pre-configured, best-practice solution to enable rapid implementation of SmartPlant 3D and SmartMarine 3D, and materials management. The Standard Database reduces the effort required to define items, descriptions and dimensions by delivering a comprehensive range of commodity codes for describing materials.

A major part of the new release includes providing Process Industry Practices (PIP) piping material specifications. PIP is a consortium of process industry owners and engineering construction contractors, which publishes and maintains recommended practices for the process industry. The newest version of Standard Database will include 40 PIP specifications, with a further 25 to be available in the next release.

Th SmartPlant Reference Data maintains a catalogue and pipe specifications for SmartPlant software.

www.intergraph.com