



President's Report



In this final Newsletter, I would like to focus on a couple of high profile events that have dominated Australia's economy during this year. Both will serve to highlight some observations I want to make about the future of the

very broad instrumentation, control systems and automation (IC&A) sectors of industry within which we all operate.

2012 began with the 'two-speed' economy where the mining sector was continuing to ride high on seemingly endless Chinese demand. Then, almost overnight, we heard the Chinese economy was slowing, demand for our minerals was dropping off accompanied by falling prices. Suddenly, Australia is looking less secure as the mining 'boom' appears to be over and we are seeing jobs disappearing from a mining sector that was characterised by an insatiable demand for more workers.

Likewise at the beginning of the year, while Australia was lauded as having a model economy and was the envy of Europe and the USA, Australian citizens continued to tighten their belts, saved instead of spent and our stock market was wallowing in the shallows while our counterpart exchanges elsewhere were riding upwards. Again

almost inexplicably and virtually coinciding with the demise of the mining boom, our stock market has begun to rise, housing seems to be picking up and surveys indicate that we are no longer feeling as anxious and insecure about our future as earlier in the year. The weak link in the previous two-speed economy is starting to look much less weak.

Both examples show fast and almost abrupt changes occurring in less than a year. Both illustrate the difficulties in making predictions about the future in today's globalised world. We are now more than ever, tied to events and situations occurring in different parts of the world. My guess is that this will continue. Globalisation carries with it repercussions, good and bad, for local people's livelihoods, expectations and their future economic welfare.

This situation poses clear and difficult challenges to all levels of Australia's education systems. How our education systems respond and prepare our young will determine Australia's success or otherwise in the 'new future'.

Successful candidates applying for the multiplicity of the 'new' kinds of jobs that will be created to meet the changing work environments will need to be change. The 'new' workers, besides having specific technical skills of their particular discipline areas, will also need to be adaptable and be able to adjust rapidly to changing workplace

situations. Above all, they will have to be innovative in their problem-solving abilities.

The scenario I have just painted is one that applies particularly well to the IC&A industry sectors of which we are all part.

To be successful in the IC&A industry sectors, young men and women will need the kind of education that will allow them to navigate their career choices successfully into the future.

Yet when I look at the current state of play in our Universities and TAFE's, I am not so sure this will be the case. Our tertiary institutions do not seem to have adequately recognised the unique value-add potential that our industry sectors have in generating Australia's wealth creation. IC&A is still not recognised by most Australian tertiary bodies as distinct discipline areas in their own right. They continue largely as 'add-ons' to existing courses like electrical engineering and related areas.

In my opinion this has to change and I envisage a longer-term ambition for the IICA to work with Engineers Australia to lobby governments and tertiary bodies about the need for separate IC&A recognition.

It now remains for me to wish every Member and their families a very happy and safe Christmas and a prosperous New Year.

Brett Simpson
IICA Federal President



WIN 1 of 5 x 16GB iPads

Renew your IICA membership or join the IICA before 31 January 2013 and you could win 1 of 5 iPads (16GB)

Winners will be notified by email and phone by Monday 18 February 2013 and will be published in the IICA National eNewsletter - March 2013

IICA Federal Council Meeting

This year the IICA Federal Council Meeting was held in Perth on 1st & 2nd November.

Thank you to all who attended who I'm sure will all agree that it was a productive and beneficial meeting.

Reports from each of the IICA Branches, Executive Officer & Training Manager allowed us to get an overall update of what is happening around the country with our association. We were also updated with the articles that we provide each month to PACE, and on the current status of membership, training and events.

More reports from the Fellow Review and from The Australian Standards Committees then a financial update for 2012 and preparation for 2013 Budgets.

Federal Council devoted the major part of its In-Person Meeting to strategic planning. During this discussion we identified a number of areas that underpin the IICA's key activities and sought to develop strategies to improve them.

The areas that were identified for review included the following:

- Re-assess the current ISA Training courses. Should we also look at other options?
- Re-assess the existing Technology Expos and how to improve them
- How to better keep existing IICA members engaged? How to attract new members?
- Can we improve our relationships with existing members? Do we know enough about them to deliver what they expect from us? Do we really know what they want or would like from the IICA?

A member analysis of comprehensive data proved helpful in assisting the

Council to agree on a number of action plans that would be implemented as a matter of priority. Thank you to John Immelman, Sydney Branch Co-Chairman and Leigh Hart, Membership Officer, who developed this information specifically for this meeting.

The key outcomes agreed by Federal Council are as follows:

- Prepare a set of criteria for a Pilot Focus Group in an agreed branch. The aim will be to select a mix of current members with selected potential ones from a specific industry sector. Outcome will be to find out their perceptions, expectations, priorities and potential needs etc that the IICA might then be able to address.



IICA Federal Team & Branch Committees

- Once the initial Pilot Focus Group is complete, repeat the process in each Branch with the dominant industry sectors that make up members in those Branches.
- The overall results will be compiled and used to assist Council to frame industry specific responses to improving our Training, Seminars, Technology Expos and also help in developing more targeted value add incentives for potential new members.
- Commence relationship building in-person meetings, with existing CIP Member companies as well as with current Technology Expo exhibitors.

Outcomes will be to listen to them about their needs, suggestions etc, and build up loyalty and act on the feedback where practicable.

- Introduce and refine the new CRM System to allow for more professional management of our existing member and non-member databases. Outcome will be to have increased targeted information which will assist our marketing strategies.
- Revise the current membership forms to allow for identification between different industry categories and major job functions.
- Agree to improve communication channels between Branches. Outcomes will be a more efficient

use of good practices, ideas etc between Branches and avoid duplication. For example each Branch should develop closer relationships with their local networks such as Engineers Australia to promote events etc. The recent success with the Perth Technology Expo can be significantly attributed to working in collaboration with

their EA Division.

The IICA is an important association to our industry and to remain relevant and strong we must be creative and innovative.

Thanks to our enthusiastic Branch Chairs, Federal Council and Executive Team, we will endeavour to keep moving forward and set these outcomes as a matter of priority. We look forward to hearing about the results of these actions from each Branch at our next Federal In-Person Meeting scheduled for May 2013.

Wishing all our members a safe and happy holiday season.

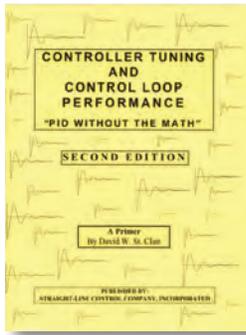
Maruta Rodan
Executive Officer

Are you **CONNECTED**? Become a member of the IICA LinkedIn Group!

The IICA group has doubled since last year! Join the 630+ IICA LinkedIn members to keep up to date with what's on at the IICA and follow the various discussions. If you are already a LinkedIn member of other groups, simply search the groups for 'Institute of Instrumentation Control and Automation Aust Inc'. If not a LinkedIn member yet, go to www.linkedin.com/home and join. It's a simple process and only takes a couple of minutes.



IICA Books & Polo Shirts



CONTROLLER TUNING & CONTROL LOOP PERFORMANCE BOOK

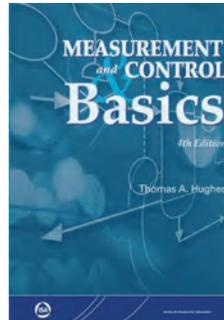
Member price \$27.50

COMPANION SOFTWARE

Member price \$14.00

Combined price \$40.00 includes GST & postage within Australia.

Contact Cathie Tynan
admin@iica.org.au for an order form.



MEASUREMENT & CONTROL BASICS BOOK

Limited number available for sale

Measurement and Control Basics, 4th Edition

Thomas A. Hughes

Ideal for classroom use or self-study, this newly revised best-selling book has provided thousands of students, technicians, sales people, and others with a practical introduction to the technologies, systems, and strategies involved in industrial process control. The fourth edition takes the same proven intuitive approach of previous editions. Each chapter begins with basic definitions and mathematical concepts that allow readers to become well versed

in the principles necessary to understand the variables that affect process control systems. New features in the fourth edition include improved coverage of analytical measurement and control, and the addition of sections on the international standard for PLC languages; process visualisation; and personal computer-based control systems. The book also includes solutions to exercises that make it more suitable for self-study. A bonus CD-ROM is also included!

\$95 incl GST & postage within Australia.

Please contact Cathie Tynan admin@iica.org.au for an order form.



IICA POLO SHIRTS

Sizes S, M, L, XL, 2XL, 3XL

Price \$45.00 includes GST & postage within Australia

Contact Cathie Tynan
admin@iica.org.au for an order form

Welcome to IICA New Members 2012

Warwick Bardsley Brad Donovan

Bill Ellerton

Edward Michalak

Miroslav Radev

Stephen Stewart

Jeffrey Triantafilo

Michael Wagner

Simon Wong

Welcome To New Student Members 2012

Sushil Kharanger

Salman Mire

Timothy Sinclair

Ali Mavahebi Tabatabai

Ka-Lok Siu

It's easy to join! Memberships start from \$175 inc GST

email: membership@iica.org.au or

apply online: iica.org.au/members/apply/

Full-Time Student Membership is FREE

ISA Training

The ISA courses are internationally recognised one-day introductory courses on a variety of control and automation topics. The topics cover Instrumentation, Control, Safety Systems, Earthing & Noise Reduction and Data Bus Strategies.

During the past year we have also partnered with the Fieldbus Centre at Edith Cowan University. We presented courses on Foundation Fieldbus Technology and Apex Optimisation on Advanced Process Control and Alarm Management Techniques.

During 2012, the IICA scheduled thirty two ISA courses around Australia, with twelve attracting enough registrations to proceed. This is a similar level to the past three years.

Of the courses that were run, six have been in Queensland, three in NSW, two in Victoria and one in WA. One engineering firm in Brisbane, Hatch, has given a large amount of support. Without this support only one course would have proceeded in Queensland.

The IICA is conscious of the need for on-going training in the control and automation industry and is constantly reviewing the relevance of our training programs. We welcome any feedback on how we can improve training whether it be course content or format.

If there are any courses that your company is particularly interested in, we can organise training at your premises. For more information please contact training@iica.org.au.

Graham Moss
IICA Training Manager

SYDNEY BRANCH

So far this year, the IICA Sydney Branch has held a whopping 24 events and meetings. This is an average of more than 2 events/meetings per month from February to November.

A true reflection of a dedicated committee - Sydney Branch Chairmen, Chris Hoey & John Immelman, Treasurer, Richard Gobe and the committee members, Fred Azzi, Nigel Billinge, Mark Brereton, Craig Lingard, Mark Pescud, Luis Rudenas, Brett Simpson & Rod White.

We have held three Technology Expos in Goulburn, Griffith and Sydney/Strathfield. Four technical nights with presentations on "Carbon Price Certainty Means Certainty of More Instrumentation", "Variable Speed Pumping Systems - a Control Perspective", "Plant-wide Wireless - Risk or Reward", and "Machine Safety - From Law to Safety Control System Design", have been held and we have hosted three ISA training courses.

The success of our 9th annual Christmas In July dinner held at a new venue, The Cove @ Drummoyne, where we had exclusive use of the venue proved to be a good move and ensured that our 10th dinner next year will be bigger and better than ever! KARI Aboriginal Resources were extremely grateful for the truckload of toys and gifts they received to pass on to foster families and for use in their facilities

Two site visits to ANSTO, the Sydney based nuclear research facility have been organised and two IICA @ Home events at Schneider-Electric & WIKA Australia.

Our branch also manned a display space at National Manufacturing Week, held at Sydney Olympic Park in May, which offered us opportunities to promote the IICA to a targeted audience and gave us exposure to potential members and corporate members.

The final fun stuff for the year was our annual TRIVIA Night on Tues November 27th. This event is our 3rd Trivia Night and

Christmas Social Drinks. As I have to send this to print before the actual evening, I can't inform you of who will be the Champions for 2012! Will Burkert have to hand over this coveted prize! I will report back in the March eNewsletter.

2013 will see another active year for our branch with 3 Technical Nights planned, three technology expos (Wagga, Wollongong & Sydney/Botany), site visits to the Tooheys Brewery, Sydney Harbour Bridge Pylon, @ Home Burkert Fluid Control Systems, 10th Anniversary Christmas in July Dinner, Trivia Night and the new introduction of a Corporate Golf Day at Manly Golf Club. For a list of dates and more information on these events, please contact me on nsw@iica.org.au.

Thank you also to our members and families who support our events. We all wish you a happy & safe holiday season.

Julie Meynell, IICA Sydney Branch Secretary - nsw@iica.org.au

ADELAIDE BRANCH

Adelaide Technology Expo 2012

The IICA Adelaide Technology Expo was held at AAMI Stadium in May this year.

The event was a resounding success with a final attendance of 75 visitors.

Although the IICA Adelaide Branch has been otherwise quiet for the year, the achievement of this event indicates that there is still a strong inclination for the Adelaide Technology Expo from the local industry.

We are always seeking resourceful local branch committee members. If you are part of the IC&A industry in the Adelaide area and wish to become part of the IICA Adelaide Branch Committee, please contact Cathie sa@iica.org.au.

sa@iica.org.au



NORTH QLD TECHNOLOGY EXPO A HIT WITH LOCALS



Gladstone Technology Expo 2012

Wednesday 1 August @ Gladstone Entertainment Centre

40 exhibitors showed off their latest products to more than 60 locals attending the event.



IICA Sydney Corporate Golf Day @ Manly Golf Club

Date: Thursday 5 Sept 2013

Shotgun start 12.00pm

The inaugural IICA Sydney Corporate Golf Day will be held at one of Sydney's most prestigious golf courses! Manly Golf Club has just undergone a multi-million dollar redesign.

Invite your most valued clients & colleagues for 4 Ball Ambrose, played in conjunction with individual and various novelty events.

Prices start from a fantastic rate of just \$800 per 4 ball. This includes green fees and a BBQ lunch prior to golf.

If you book before Feb 1st, 2013, cost will be just \$700 per 4 ball.

Register your interest NOW!

There will also be sponsorship opportunities available.

Email **Julie nsw@iica.org.au** for further information.



Branch News

PERTH BRANCH

The IICA Perth Branch is growing strongly and our student membership is notably steady.

The events we have held this year have been well attended. We kicked off with the Perth Hazardous Area Update Seminar in April at Engineers Australia. With more than 20 paid registrations and 5 sponsors, not only was it a well-received event, but a very good revenue generator. Thank you to sponsors, Burkert Fluid Control Systems, Duff & Macintosh, I&E Systems, Transtek & Weidmuller Australia.

Next was a Technical Night on "Selection of Control Valves" in May at Marque Hotel. The presentation by Jacky Van Wolput (Samson Controls) attracted more than 20 attendees with a few non-members which is always good for recruitment purposes.

The ACEPT (Australian Centre for Energy and Process Training) visit at Munster in June attracted a massive 50 registrations. Challenger Institute of Technology offers a range of courses related to the oil and gas industry and the resource industry through its Australian Centre for Energy and Process Training (ACEPT). A fantastic turnout and we will look to do another for 2013.

Another Technical Night held in July was presented by Ernst Krauss, our Branch Chairperson. Ernst presented on: "Managing Data Across The Lifecycle Of An Asset - Value Creating Or Cost?". This

evening was held at Engineers Australia and there was an impressive 30+ attendees. This event was a good example of how broadening our horizons outside the instrumentation topic can be a worthwhile exercise.

Our annual Quiz Night was held in August at the Royal Kings Park Tennis Club. 8 full teams fought it out for the coveted IICA WA Quiz Kings Trophy. It was a close race to the finish but finally CSBP won a tiebreak



over Yokogawa! CONGRATULATIONS to CSBP and all the teams for participating. Thanks to all of our generous sponsors Aquip, Endress+Hauser, Honeywell, KD Instruments, Krohne, Moore Industries, MTL/Cooper, Pacific Automation, Pepperl & Fuchs, Present Group, Samson Controls, Western Process Controls, WIKA, Yokogawa & Zedflo.

So far, all our events have been successful but nothing was to prepare us for the overwhelming triumph of our Perth

Process & Instrumentation Technical Trade Show at the Perth Convention Exhibition Centre on October 31st. With more than 46 exhibitors and a whopping 200+ attendees, we couldn't have been more pleased with the event. As usual due to pre-planning, support from past and present committee members, volunteer KD Instrument staff and the exhibitors, it was a relatively quick set-up and breakdown. This ensures minimal effort for all concerned. Special thanks also to KD Instruments, Krohne, Aquip, Transtech, Zedflow and Samson Controls who all donated draw prizes with a value of over \$100 each. The new draw format ensured greater exposure for the sponsors and the draw entrants appreciated seeing the winners collect their prize as they had to be there to win.

Our final event for 2012 will be our Christmas Breakfast Function will be held on Friday December 7th at The Metro - If you would like to attend, please contact us on wa@iica.org.au

Our vision for 2013 will be to provide an array of events that will interest our member base and to encourage topics outside of our usual thinking.

We would like to thank our dedicated committee and wish all our members and their families a safe and happy holiday season.

wa@iica.org.au

MELBOURNE BRANCH

The IICA Melbourne Branch has had a busy year. A great deal has been achieved and this doesn't happen without a committed committee (they sometimes feel they should be committed!) and secretarial support.

My sincere and humble thanks go to Tony Tepper, Richard Wawrzon, Ian Gibson, Philip Ring, Bob Weiss, Brad Beard, Garry Barling, Dirk Kuiper, Bernie Holloway, Geoff Rogers, Cameron Dorrrough, Sai Sriram and of course our indefatigable secretary, Caroline Kuiper and Uber-administrator, Cathie Tynan.

The IICA Melbourne Branch Technology Expos have been convincingly successful for 2012. As always, we do experience the usual frustrations from the lack of a sufficiently large and flexible database. We have great hopes that the CRM (Contact Relationship Manager) which is in preparation, together with our new Membership Officer, Leigh Hart, will improve this situation rapidly over the short term. Meanwhile, the events committee has met in Melbourne and has decided to ramp up the marketing efforts in the regions where each Technology Expo is held.

We will contact the local councils, work cover offices, chambers of commerce (and anyone else who will listen) and exhort them to send out our fliers to their industry databases. After all, we are providing a valuable service to their community and local employers, we need to communicate

clearly that we are providing this free service when asking for their assistance. This can only encourage more attendees to our events, help to grow our database and our membership.

It has been hard as always to find speakers on relevant topics but this is such a fundamental member service that we have to continue to do them and do better. Nevertheless we do get a core group along each time and the presentations have been well received.

Leveraging off the experience of the other branches has not been explored fully and it is our intention to work more closely with the committees of other states to improve our technical night offerings.

Site visits have been a shining example of a popular member service this year with excellent visits to a number of high profile facilities: The Logicamms Desal Project Office; the Newport Power Station; Qenos Plastics Plant and the Agilent (formerly Varian) Spectrophotometer manufacturing facility. It was an amazing afternoon at Agilent. Of the range of manufacturing activities seen, we were particularly fascinated with specialty components made by their Glass Shop.

Here we saw the honed skills of glass blowing, aided by glass working lathes, making thermionic type plasma radiation sources for the analysers and, the precision metalized film coating of optical mirrors

and optical-gratings. With the instruments being so complex, rigorous testing was evident at every stage of assembly and lead to Final Test and Burn-in where we saw Inductively Coupled Plasma Optical Emission Spectrometer (ICP OES) analyser being checked out and its performance validated before dispatch.

These Site Visits are always oversubscribed and always attract a significant number of non-members as well. We need to see these events as potential recruiting grounds for new members and always have IICA publications, membership brochures and forms (a show bag) to give to all attendees.

We will continue these events for 2013 with plans already in the making to visit the new Victorian Desalination Plant.

2013 will also see our branch holding Technology Expos in Moorabbin, Bairnsdale, Ballarat and Altona – BOOK NOW! The Booking Form has been circulated but if you haven't received it, please see page 8 of this newsletter for dates and contact Cathie admin@iica.org.au to book.

Our committee would like to thank all those members who attend and exhibit at our events. We wish you all a happy and safe holiday season and we look forward to seeing you all in 2013.

Frank Schrever, IICA Melbourne Branch Committee Member

NEWCASTLE BRANCH NEWS

2012, for our branch, was about broadening our horizons outside of the usual Newcastle region.

In August we held our annual Technology Expo in Port Macquarie at the Race Club. The IICA has never held an event in Port Macquarie but with the help of the local newspaper doing an advertising feature for our event, we managed to get a good turn-out with overall feedback being that although there weren't many visitors, they were of good quality and most exhibitors were able to obtain some decent leads.

For 2013, we will be back to our habitual venue of Wests Leagues, New Lambton for our Technology Expo in September. Exhibitors be sure book early as this event does sell out.

We also have two technical nights, the annual seminar and various ISA courses planned for 2013 – we will be in touch with dates.

We would also like to know if anyone is interested in becoming a committee member for our local branch.

As mentioned previously, we will plan approximately 6 events for the year and a few meetings. There is full secretarial support available.

Interested? Please contact Cathie at admin@iica.org.au

All the best to our Newcastle members for a happy and safe Christmas and New Year.

newcastle@iica.org.au

BRISBANE BRANCH REPORT

The IICA Brisbane Branch has had a quiet year however that will change for 2013 with the appointment of a Branch Secretary specifically to organise member events.

This year we hosted a successful Technical Expo at the Greek Club and participated with IDC in a Process Control Conference held at The Mercure.

We will ramp up the activity for 2013 by planning not only our annual Technology Expo and Seminar but six member nights, including technical presentations and industrial site visits.

Wishing all our QLD IICA members a happy and safe holiday season.

qld@iica.org.au

IICA Sydney Student Award Work Experience Program

A new initiative of the IICA Sydney Branch is the IICA Student Award Work Experience Program. Each year, the IICA Sydney Branch awards 2 to 5 awards to University of Technology (UTS) & Petersham TAFE. In previous years, the UTS award included \$500 to 2 x students and the TAFE award included a multimeter and the CD looping text book and CD. Now, to complement the prize, the students who win will be offered their choice of a few days company work experience at the following companies that have offered to participate: Burkert Fluid Control Systems, Emerson Process Management, Weidmuller Australia, Qenos & Schneider-Electric.

This initiative began in October when the UTS prizes were awarded to Andrew Wilkinson and Robert Alcaro who gained the highest aggregate mark in the subjects Dynamics and Control and Introductory Control respectively - Congratulations! Robert has chosen to attend Schneider-Electric as he has a particular

interest in Schneider's MV switchgear/transformers and the associated control and protection relays.

Would your company like to be part of this fantastic new initiative?

Please contact Julie Meynell on nsw@iica.org.au for more information.

Below: UTS Students Andrew Wilkinson (left) and Robert Alcaro (middle) receive their award from IICA Sydney Branch Co-Chairman, John Immelman.



Fellow: John Woortman

Congratulations to the newly appointed IICA Fellow for 2012, John Woortman.

John has been part of the Adelaide IICA committee for several years in the past and has been active and successful in recruiting new members for the institute.

John Woortman has been a qualified Instrumentation and Electrical Engineer for more than 30 years. John has completed the studies in computer engineering with HD result at Swinburn University. He has been a Senior and Chief Instrumentation and Electrical Engineer at various companies.

John has an extensive cv in our industry both here in Australia and overseas.

John has been a chief electrical instrument engineer for EGLO engineering for projects in and outside Australia. For Caldwell Connell engineers, John has been a senior instrument and electrical engineer for the design, building and commissioning of the Williamstown and Loy Yang power stations. For Hoechst plastics, John was a senior engineer E&I for the design and improvement section at Altona factory. At SDA Engineering, he was in charge of the Instrumentation and electrical department for the design of diesel, bio gas and natural gas driven generating systems in Australia.

John's overseas work experience extends to the sales support and training of overseas personnel in Thailand, China, Indonesia and Egypt for the operation and control systems and electrical switch gear.

Further domestic experience was for the installation and operation instructions and training for the Co-Generation systems in various places in Australia. John has supervised building of large Co-Generation stations with from 2 to 24 diesel, bio gas and natural gas driven generating systems and instructing operations personnel.

John has also taken part in discussions regarding Ex- standards.

Congratulations again John, you are indeed a worthy IICA Fellow!

Fellowship Criteria

MANDATORY
(must meet all three criteria)

- Has followed the profession of Instrumentation, Control and/or Automation for at least 10 years.
- Has held a prominent position in the profession or industry and made a significant contribution to the profession or industry.
- Has made a significant contribution to the IICA via Federal Council, Division or Branch involvement.

ADDITIONAL
(must meet at least one criterion)

- Has held a sustained major responsibility in the design or execution of important instrumentation, control or automation work as relevant to Member.
- Has made a significant contribution to the manufacturing, sales and support areas of instrumentation, training, control or automation as relevant to Member.
- Has participated in national and international Standards setting organisations.

If you feel that you qualify and would like to apply, please contact Cathie Tynan admin@iica.org.au for an application form

IICA Corporate Industry Partners 2012

ABB Australia	Norton Consultants
AIE	Oceanic Controls
AMS Instrumentation & Calibration	OEM Technology Solutions
Apex Optimisation	Omron Electronics
Auto Control Systems	P B Automation
Belden Australia	PACE Engineers
Burkert Fluid Control Systems	PDC Group (Aust)
CAC Gas & Instrumentation	Pepperl + Fuchs (Aust)
Challenger TAFE WA	Phoenix Contact
Control Components	Portable Analytical Solutions
CSE Semaphore Australia	Powerflo Solutions
Daesim Technologies	Power Shield
Dart Instruments	Process Control Services
Delta Automation	Process Instrument Services
Dwyer Instruments	Prochem Pipeline Products
EDAC Electronics	Pyrosales
Elpro Technologies	Ramelec
Emerson Process Management	RMIT University
Endress + Hauser Australia	Rockwell Automation
Fluke Australia	Rotork Australia
GE Energy Optimization & Control	SAGE Automation
Haldatec	Samson Controls
Hatch Associates	Schneider Electric (Australia)
HIMA Australia	Sick
HMA Group	Siemens
I & E Systems	Sudel Industries
IFM Efector	Supplied Solutions
IndustrySearch.com.au	Sustainergy
I Open	Swagelok WA, SA, NT
iPac Solutions	Techinspect
I S Systems	Tech Rentals Corporation
Krohne Australia	Teksal Controls
LogiCamms (Central)	Temperature Controls
Macquarie University – Dept Electronic Engineering	Territory Instruments
Macquarie Valley Control	Thermo Fisher Scientific
Matrikon	Thermon Australia
Micromax Sensors & Automation	Transtech Electronic Controls
Moore Industries	Transtek
Mount Druitt College of TAFE	VEGA Australia
MTL Instruments	Weidmuller
National Instruments Australia	WIKA Australia
Network Automation	Yokogawa Australia
Norgren	Zdflo Australia
	Zi Argus

IICA National Events Calendar 2013

- Moorabbin (VIC) Technology Expo 20 February
- Albury (NSW) Technology Expo 6 March
- Wagga Wagga (NSW) Technology Expo 27 March
- Brisbane (QLD) Technology Expo 17 April
- Perth (WA) Functional Safety Seminar 22 May
- Wollongong (NSW) Technology Expo 29 May
- Bairnsdale (VIC) Technology Expo 12 June
- Ballarat (VIC) Technology Expo 26 June
- Gladstone (QLD) Technology Expo 10 July
- Gladstone (QLD) Cyber Security Seminar 11 July
- Melbourne (VIC) Cyber Security Seminar 17 July
- Brisbane (QLD) Cyber Security Seminar 31 July
- Adelaide (SA) Technology Expo 7 August
- Mackay (QLD) Technology Expo 21 August
- Hobart (TAS) Technology Expo 3 September
- Devonport (TAS) Technology Expo 5 September
- Sydney Golf Day (NSW) 5 September
- Newcastle (NSW) Technology Expo 18 September
- Newcastle (NSW) Cyber Security Seminar 19 September
- Perth (WA) Cyber Security Seminar 25 September
- Perth (WA) Technology Expo 17 October
- Sydney (NSW) Botany Area Technology Expo 30 October
- Adelaide (SA) Cyber Security Seminar 13 November
- Altona (VIC) Technology Expo 27 November

Contact details

If you would like to provide feedback on this newsletter, please call 1300 781 715 or email admin@iica.org.au

Below:
IICA Sydney Technology Expo 2012

