WHAT YOU WILL GAIN FROM THIS EVENT:

- Learn about new boiler and pump management approaches
- Understand how to apply IEC61508 and IEC61511 to your plant or project
- Gain practical solutions to common pump and compressor challenges
- Identify opportunities for energy and cost savings
- Learn how to increase reliability and overall safety of your boilers and pumps
- Simulate typical boiler control systems and uncover potential problems in design
- Receive expert advice on pump and compressor selection, correct speed calculation, alignment and mitigating inconsistent flow and blockages
- Understand how to apply AS3814 standard to your burner management system
- Learn techniques to maximise the value of your pumps and compressor systems
- Hear case studies and critical discussion from the local industry
- Network with specialists in the field and your peers
- No sales pitches – Non-commercial presentations

WHO SHOULD ATTEND:

- Chemical and process engineers/technicians
- Mechanical engineers and technicians
- Designers and engineers involved in instrumentation and control of process plants
- Project engineers
- Structural designers and engineers
- Boiler plant operators, installers and construction managers
- Process, control and automation engineers
- Operation, maintenance and inspection managers
- Reliability engineers
- Plant maintenance managers, engineers and technicians
- Plant engineers, supervisors and managers
- Consulting engineers
- Pump service contractors
- Electrical & equipment designers and engineers
- Training managers

24th & 25th November 2015
Rydges Hotel - North Sydney
SYDNEY, AUSTRALIA

DISCOUNTS
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Presented by:

Technology Training that Works
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UNITED KINGDOM • UNITED STATES • VIETNAM
This conference will be highly practical and offer delegates the opportunity to gain access to the most up-to-date information on the design, installation, commissioning, operation, maintenance, troubleshooting and management of two key interconnected and often challenging components – boilers and pumps. The conference is intended for engineers, technicians and consultants from a wide range of abilities and backgrounds.

The conference will cover a selection of case studies and examples of real world working systems, and problem solving scenarios. When delegates leave this conference they will have an increased ability to work with and solve their boiler and pumps problems simply, easily and with confidence.

### CONFERENCE DAY ONE – 24th November 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Topic</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>8.00am</td>
<td>Registration</td>
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<tr>
<td>8.15am</td>
<td>Opening Address</td>
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<tr>
<td>8.30am</td>
<td>Session 1</td>
<td>Condition Monitoring of Boilers and Heat Exchangers</td>
<td>Ray Beebe – Engineer, Speaker, Trainer, Author, Adviser in Predictive Maintenance/Machine Condition Monitoring, MCM Consultants Pty Ltd</td>
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<tr>
<td>9.30am</td>
<td>Session 2</td>
<td>Operating Multiples Pumps or Boilers in Tandem</td>
<td>Graham Jefferson – Director &amp; Principal Consultant, Scope Process Controls</td>
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<tr>
<td>10.15am</td>
<td>Morning Tea</td>
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<td>10.45am</td>
<td>Session 3</td>
<td>Emission Levels of a Multifuel-Fired CFB Boiler in Australia</td>
<td>Ian Pennington – Senior Process Engineer, RCR Energy Pty Ltd</td>
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<tr>
<td>11.30am</td>
<td>Session 4</td>
<td>Cracking in Water Tube Boilers</td>
<td>Doug Wallis – Technical Director, All Areas Inspections</td>
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<tr>
<td>1.15pm</td>
<td>Session 5</td>
<td>Sealless Pumps – Advantages on High Temperature Fluids</td>
<td>Matthew Thompson – Technical Engineering Manager, Renroc Group</td>
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<tr>
<td>2.00pm</td>
<td>Session 6</td>
<td>Boiler Water Treatment – Options, Selection and Monitoring Tools</td>
<td>Peter Pachacz – Technical Director, Hydro Flow</td>
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<tr>
<td>3.15pm</td>
<td>Session 7</td>
<td>Online Acoustic Monitoring of Power Boilers</td>
<td>Selwyn Braver – Technical Director, Martec Asset Solutions</td>
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<td>4.00pm</td>
<td>Session 8</td>
<td>Boiler Operation for Heat Recovery</td>
<td>Dr. Alan L Harvey – Process Engineer, Covey Consulting and Lecturer, RMIT University</td>
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<tr>
<td>4.45pm</td>
<td>Closing</td>
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### Registration

Phone: 1300 138 522  
Email: idc@idc-online.com  
Online: www.idc-online.com

All conference papers are reviewed and selected for their high quality and technical value by our panel of specialists experienced in the theory and practice of boilers and pumps.
CONFERENCE DAY TWO – 25th November 2015

8.30am
Session 9
SESSION
INFORMATION:
INFORMATION:
11.30am
9.30pm
3.15pm
4.00pm
2.00pm
1.15pm
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STUDY
STUDY

Recent Developments in Pulse Reflectometry for Tube Inspection
Selwyn Braver – Technical Director, Martec Asset Solutions
Pulse Reflectometry is a non-invasive technique for probing the properties of cavities and materials. In recent years, the acoustic version of pulse reflectometry has been applied successfully to inspection of condensers, boilers, preheaters and other heat exchangers, by sending acoustic pulses into the air enclosed within the tubes and analysing the reflections created by defects or blockages, holes and ID wall loss. Recent developments extending this technique further enable detection of defects such as blockages, holes and ID wall loss of a wider range of defect with higher accuracy. These developments will be presented. This session will explore two application case studies where examples of boiler control, safety instrumentation and management systems have offered user benefits.

9.30pm
Session 10
SESSION
Using Intelligent Technology to Drive Boiler Efficiency Gains
Peter Page – Fireye - Regional Sales Manager (Africa, Oceania)
The demand for boiler efficiency savings is relentless as all industries strive to stay competitive. Suppliers and manufacturers explore opportunities to go beyond basic functionality by expanding product capability without increasing cost. This short seminar will examine two industrial application case studies where examples of boiler control, safety instrumentation and management systems have offered user benefits.

Morning Tea – 10.15am

10.45am
Session 11
SESSION
New Innovations in Burner Ignition – Plasma
Dr Kevin Bate – Manager – Sales & Operations, DURAG UK GmbH
This presentation will explore, firstly, the basic principle of the burner design and function, the theoretical principles and two examples of applications where the technology has been applied successfully.

11.30am
Session 12
SESSION
Practical Steam Accumulator Installations
Ross Patterson – Director and Mechanical Design Engineer, Covey Consulting
Steam storage devices are unusual, but can be very useful in improving plant efficiency, or even its operability. This paper discusses several recent installations. These have all been of the “Ruth Accumulator” or variable pressure type, which are typically installed to protect the steam generation plant from rapid load swings. The applications discussed involved major load swings generated by batch pulp digesters. The paper describes the mechanical design features adopted as well as the control methodology. Control response curves are presented.

Lunch – 12.15pm

1.15pm
Session 13
SESSION
Reduce Energy used by your Pumps
Ray Beebe – Engineer, Speaker, Trainer, Author, Adviser in Predictive Maintenance/Machine Condition Monitoring, MCM Consultants Pty Ltd
If a pump requires throttling to meet the required duty, its impeller(s) may be too large. The paper will show by case studies how to estimate the energy saved by modifying impellers. As pumps wear, internal recirculation increases, wasting energy. Condition monitoring can be used to find the optimum time for overhaul based on energy saving. The method developed by Ray has been presented around the world and led to his award-winning book. A spreadsheet application will be available to delegates.

2.00pm
Session 14
SESSION
Harmonised Plant Regulations in the Australian States – Latest Developments
Doug Wallis – Technical Director, All Areas Inspections
In the late stages of the Gillard government, a deal was struck to harmonise WHS Regulations. These were legislated by most of the jurisdictions, with two exceptions. Amendments to the legislation have appeared in the last few months. Recent developments from Victoria and the Council of Australian Governments will be discussed. The possible implications of these will affect all plant owners, especially those about to procure equipment from overseas.

Afternoon Tea – 2.45pm

3.15pm
Session 16
SESSION
Energy from Low Calorific Fuels
John Jardine – Managing Director, SAACKE Australia
The development in the field of combustion technology now makes it possible to achieve stable combustion with waste fuels having extremely low and fluctuating heating values. The technology can be applied to various fuels like bio-gas, hydrogen, coal seam methane, blast furnace gas and other lean gases formed as by-products. This technology is for firing plants for industrial use and can be used for firing gases with heating values as low as 2.5 mJ/Nm³ without the need of auxiliary fuels. This presentation will cover the basic principle of the burner design and function, the theoretical principles and two examples of applications where the technology has been applied successfully.

4.00pm
Session 18
SESSION
Discussion Panel
This session will provide delegates with the opportunity to ask our speakers questions and discuss boilers and pumps related issues in their workplace, covering typical problems and possible solutions.

Closing – 4.45pm

Sponsorship Opportunities
Representing your business at the Boilers and Pumps Conference in 2015 will provide you the opportunity to reach key decision makers from a multitude of industries. For more information on sponsorship and exhibition opportunities please contact Sarah Montgomery via email conferences@idc-online.com
REGISTRATION FORM:
BOILERS & PUMPS CONFERENCE
Tuesday 24th to Wednesday 25th November 2015
Rydges Hotel, North Sydney

Simply complete this form online or return by email to idc@idc-online.com.

1. DELEGATE DETAILS

Contact: 
Company Name: 
Company Address: 
Suburb: 
State: 
Postal Code: 
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Email: 

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2. HOW DID YOU HEAR ABOUT THIS EVENT?

☐ Received an email from IDC
☐ Received a brochure in the mail
☐ Recommended by a friend/colleague
☐ Searched online (Google, Yahoo etc)
☐ Other (please specify)

3. REGISTRATION & PAYMENT DETAILS

Prices shown are inclusive of GST

PLEASE NOTE: Full payment is required prior to the commencement of the conference.

BOILERS & PUMPS CONFERENCE - 24th & 25th NOVEMBER 2015

OPTION 1: Early Bird Discount
- Book on or before 27th October (SAVE $179.50)
  $1615.50 x ____ delegates = $ 

OPTION 2: Standard Rate (NO Early Bird Discount)
- Book after 27th October
  $1795.00 x ____ delegates = $ 

OPTION 3: 3 for 2 Offer AND Early Bird Discount
- Book on or before 27th October (SAVE $2154.00)
  3 delegates: 2 x $1615.50 = $3231.00 = $ 

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- Book after 27th October (SAVE $1795.00)
  3 delegates: 2 x $1795.00 = $3590.00 = $ 

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EXPIRY DATE: / 

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Phone 1300 138 522 or 02 9922 1311

The conference venue has accommodation available. Contact directly on (02) 9922 1311 and mention the conference when booking and receive the best room rate available.

If you are unable to attend the full conference program, contact us for details to attend individual sessions, or to purchase the Conference Resource Kit.

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SYDNEY, AUSTRALIA
Phone (02) 9922 1311

The conference venue has accommodation available. Contact directly on (02) 9922 1311 and mention the conference when booking and receive the best room rate available.

Food and Beverages
All lunches, morning and afternoon refreshments are included in the registration fee.

Enquiries
Phone 1300 138 522 or email idc@idc-online.com.

REGISTRATIONS

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By Phone:
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IDC Technologies
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