

ABHUG 2019



Australasian Boiler & HRSG Users Group Conference and Workshop

30 October - 1 November 2019, Brisbane
Brisbane Convention & Exhibition Centre



The Australasian Boiler and HRSG Users Group (ABHUG) will conduct its annual meeting in Australia on 30 October to 1 November 2019 in Brisbane.

For the last 10 years the Australasian HRSG Users Group (AHUG) has met annually to discuss all aspects concerning HRSGs. Recently the Steering Committee and attendees have noted that many of the failure/damage mechanisms occurring in HRSGs are similar to those that occur in conventional boilers, and that other equipment in combined cycle plants have the same issues as in fossil plants. So in 2019 AHUG is changing to ABHUG (Australasian Boiler and HRSG Users Group). ABHUG will continue to concentrate on HRSG aspects but will add the technical areas common in fossil and HRSG plants such as tube failures, steam turbine, high energy piping, valves and regulatory issues.

ABHUG 2019 will feature presentations on plant operation, maintenance, layup, and chemistry. It will also feature interactive discussions with presenters, equipment specialists and users. One workshop will be conducted during this event - see the program for details. All attendees will be encouraged to raise specific technical problems with their Boilers, HRSGs, Steam Turbines and Valves, and then participate while other attendees join in to share their experiences and debate solutions.

There will also be a number of exhibits associated with all aspects of Boilers, HRSGs, Steam Turbines and Valves.

Who should attend?

Managers, engineers, operators, maintenance personnel, equipment suppliers, consultants, and plant service providers. In fact, anyone with an interest in the design, operation, layup, maintenance, or chemistry of boilers and HRSGs.

MECCACONCEPTS

For more information on the Conference, workshops, exhibitions and sponsorship, please contact the Conference Secretariat
Mecca Concepts Pty Ltd
Rachel Washington -
rachel@meccaconcepts.com.au

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AGENDA

Day 1 – Wednesday, 30th October 2019.

| | |
|----------------|--|
| 8:15 | Registration |
| 9:00 to 9:10 | Opening Remarks. B. Dooley Structural Integrity, UK and R. Anderson Competitive Power Resources, USA. |
| 9:10 to 9:40 | Case Study - Recent Service Experience with Grade 91 Material. <u>N. Xu</u> , ALS, Australia. |
| 9:40 to 10:10 | Assessment of Final Superheater Outlet Header Ligament Cracks to Determine Remnant Life. <u>A. Du Randt</u> , Genesis Energy, New Zealand, <u>V. Garcia</u> , O. Kwon and A. Karstensen, Quest Integrity, Australia and New Zealand. |
| 10:10 to 10:40 | <i>Morning coffee/tea within Exhibit</i> |
| 10:40 to 11:10 | Case Study: Low Temperature Reheater Tubes Corrosion Pitting <u>G. Wang</u> , Stanwell Corporation, Queensland, Australia. |
| 11:10 to 12:00 | General Open Floor Discussion and Questions |
| 12:00 to 13:30 | <i>Working Lunch within Exhibits</i> |
| 13:30 to 14:00 | Cockburn Power Station Update. <u>K. Newman</u> , Synergy, Australia. |
| 14:00 to 14:30 | On-line Monitoring and Damage Tracking of Headers, Attemperators and Piping. <u>A. Zunker</u> , PEI, New Zealand. |
| 14:30 to 15:00 | General Open Floor Discussion and Questions |
| 15:00 to 15:30 | <i>Afternoon coffee/tea within exhibits</i> |
| 15:30 to 16:00 | The Ability of PressureWavePlus to Fulfil the Different Cleaning Tasks of Gas and Coal-fired Power Plants at its Best. <u>J. Goud</u> and M. Buerger, Bang and Clean Technology, The Netherlands and Switzerland. |
| 16:00 to 16:30 | IAPWS, AUSAPWS and NZAPWS Updates B. Dooley, Structural Integrity, UK, H. Henderson, AGL, Australia and D. Addison, Thermal Chemistry, New Zealand |
| 16:30 to 17:00 | General Open Floor Discussion and Questions |
| 17:00 | <i>Day 1 Concludes</i> Networking, Social Gathering and Drinks within Exhibits. "Brisbane Evening". |

Day 2 – Thursday, 31st October 2019.

| | |
|----------------|--|
| 8:30 to 8:45 | Review of Day One. Exhibits and Discussion |
| 8:45 to 12:00 | ABHUG Workshop on Welding for Fossil and HRSG Plants Chaired by <u>R. Coade</u> , HRL, Australia. |
| 8:45 | Introduction to Welding Workshop. |
| 8:50 | Explanation of the Draft AS/NZS 3992 - Pressure Equipment - Welding and Brazing Qualification AS3992 |
| 9:10 | Welding of Service Exposed Materials |
| 9:35 | Case Study 1 (HRL) – Weld repair of a Large Power Station Strain Body and Repair of a Main Steam Pipe |
| 10:00 to 10:30 | <i>Morning coffee/tea within exhibits</i> |
| 10:30 | Case study 2 (Quest) - Weld Repair of Ligament Cracking in Superheater Header – Huntly Power Station |
| 10:55 | Case Study 3 (Uniper) - Cold Weld Repair of a Grade 91 – 2.25Cr1Mo Steel Weld Utilising Procedures Developed by EPRI |
| 11:20 | Case Study 4 (ALS) - Engineering Analysis and Modification of a HRSG Duct |
| 11:45 | Welding Skills (Weld Australia) |
| 12:00 to 13:30 | <i>Working Lunch within exhibits</i> |
| 13:30 to 14:00 | AGL Approach to Boiler Tube Failure Reduction. <u>S. Mann</u> , AGL, Australia. |
| 14:00 to 14:30 | Fast Ramping and Peak Capacity HRSG Considerations. <u>B. Craig</u> and L. Stanley, HRST, USA. |
| 14:30 to 15:00 | Severe Service Valves – Common Problems and Their Solutions. <u>S. Sherikar</u> , Nihon Koso, Thailand. |
| 15:00 to 15:30 | <i>Afternoon coffee/tea within exhibits</i> |
| 15:30 to 16:30 | International Experiences – Fossil and HRSG Plants <ul style="list-style-type: none"> International Experience on Fossil and Combined Cycle/HRSG Plant Cycle Chemistry Control and FAC. <u>B. Dooley</u>, Structural Integrity, UK. International Experience on HRSG Thermal Assessments. <u>R. Anderson</u>, Competitive Power Resources, USA. |
| 16:30 to 17:00 | General Open Floor Discussion and Questions |
| 17:00 | <i>Day 2 Concludes</i> |



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AGENDA ... / continued

Day 3 – Friday, 1st November 2019

- 8:30 to 8:45 **Review of Day Two, General Open Floor Discussion and Questions**
- 8:45 to 9:15 **Tallawarra Updates: C3 Outage Works and Findings.**
I. Currie and E. Corbett, Tallawarra, Australia.
- 9:15 to 9:45 **HRSGs, Cracking, Corrosion and Performance.**
R. Coade and D. Coldham, HRL Australia.
- 9:45 to 10:15 General Open Floor Discussion and Questions
- 10:15 to 10:45 *Morning coffee/tea within exhibits*
- 10:45 to 11:15 **HRSG Gas Side Corrosion Products – Chromium and Sulphate –Formation, Risk and Management.**
D. Addison, Thermal Chemistry, New Zealand.
- 11:15 to 11:45 **A Kogan Creek Case Study – Reheater Pitting.**
K. Rose and L. Smith, CS Energy, Australia
- 11:45 to 12:15 General Open Floor Discussion and Questions
- 12:15 to 13:45 *Working Lunch within exhibits*
- 13:45 to 14:15 **Update on Automatic Ultrasonic Superheater Drain Control.**
R. Anderson, Competitive Power Resources, USA.
- 14:15 to 14:45 **New Era in Remote Plant Condition Assessment - Remote Desktop Inspection through the Creation of a “Digital Twin”.**
A. Van Daele, ALS Industrial, Australia.
- 14:45 to 15:15 *Afternoon coffee/tea within exhibits*
- 15:15 to 15:45 **History, Issues and Improvements at the Energy Developments Limited Pine Creek CCGT plant in the Northern Territories.**
O. Kolokolova, EDL, Australia.
- 15:45 to 16:15 **The Impact Step Changes in Temperature on Superheater and Reheater Life Assessment using Oxide Thickness Measurements.**
C. Jones and C. Thomas, Quest Integrity, Australia and New Zealand.
- 16:15 to 17:00 General Open Floor Discussion and Questions
- 17:00 *Day 3 Concludes*

Sponsorship & Exhibition Opportunities

Sponsorship and exhibition opportunities are available at the conference again this year. Please review following pages.

Conference Committee

ABHUG 2019 is chaired by Barry Dooley, Structural Integrity Associates with the assistance of a Steering Committee consisting of:

Barry Dooley, Structural Integrity Associates
David Addison, Thermal Chemistry
Bob Anderson, Competitive Power Resources
John Blake, Stanwell Corporation
Russell Coade, HRL
Michael Drew, ANSTO
Stuart Mann, AGL
Keith Newman, Synergy
Charles Thomas, Quest Integrity

*Keep up-to-date by visiting the
ABHUG 2019 Conference website:*

<https://www.etouches.com/ehome/abhug2019/Home/>

Visit the website to Register
and for any new information.



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Sponsorship & Exhibition Opportunities

(All prices include GST)

Gold Sponsorship : (AUD) \$8500.00

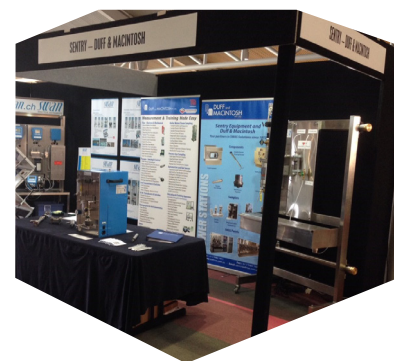
Sponsorship of this item includes...

- Company name and logo displayed
 - » on all promotional material
 - » in sponsorship acknowledgement slides during the conference
 - » on holding slides during the conference
 - » on conference website page (with link to sponsor website)
- Opportunity to display banner in the conference room (pull up banner only to be provided by the sponsor)
- One complimentary exhibition booth
- One complimentary registration to all conference activities
- Acknowledgement and company profile in the conference proceedings

Exhibition Booths : (AUD) \$2950.00

The conference program and exhibition space has been designed to offer exhibitors maximum networking opportunities with conference delegates. Morning tea, afternoon tea and lunches on Wednesday to Friday will be served in the exhibition display area. The exhibition package includes the following...

- Shell scheme display stand (3m x 2m x 2.4m with velcro compatible panels)
- Company name on fascia sign (20 characters)
- 2 x 150 watt spotlight per booth mounted on light track inside fascia
- 1 x 10 amp power point per booth
- 1 x dressed trestle table and two chairs
(additional furniture can be purchased at own expense)
- Acknowledgement and company profile in the conference documentation
- One complimentary registration to all conference activities.
- Additional "Booth Only" (not conference) passes can be purchased for \$570 (max 2).



Name Badges and Lanyards : (AUD) \$2300.00

All delegates will be issued with a name badge and lanyard to be worn for the duration of the event.

Sponsorship of this item includes...

- company logo printed on name badges and lanyards
- acknowledgement and company profile with conference proceeding

Refreshment Breaks : (AUD) \$2000.00 for 3 days OR (AUD) \$800.00 per day

There is a total of 6 morning/afternoon tea breaks and 3 lunches during the conference.

Sponsorship of this item includes...

- opportunity to display & hand out promotional material during the sponsored day.
- acknowledgement sign during sponsored day
- acknowledgement and company profile with the conference proceedings

Networking Reception : (AUD) \$1500.00

Networking Reception occurs at the conclusion of the first day (Wednesday 5.30-7.30pm).

Sponsorship of this item includes...

- opportunity to display and give out promotional material during the Networking Reception.
 - acknowledgement sign on refreshment table during the Reception
 - acknowledgement and company profile with the conference proceedings
-



Sponsorship & Exhibition Form

please return completed form to MECCA Concepts Pty Ltd Fax: **+61 3 9530 4286** or scan & email to rachel@meccaconcepts.com.au

TITLE:

FIRST NAME:

LAST NAME:

POSITION:

ORGANISATION:

ADDRESS:

CITY:

STATE:

POST CODE:

TELEPHONE: ()

FAX:

EMAIL:

Level of Sponsorship: I agree to the Sponsorship and Exhibitor Conditions and request the following: (all prices include GST)☐ **Gold Sponsorship : (AUD) \$8500.00**☐ **Exhibition Booths : (AUD) \$2950.00**☐ **Name Badges and Lanyards : (AUD) \$2300.00**☐ Additional "Booth Only" passes (max 2 per booth) : (AUD) \$570☐ **Networking Reception : (AUD) \$1500.00****Refreshment Breaks**☐ (AUD) \$2000.00 for 3 days☐ **OR (AUD) \$800.00 per day**

Payment Details

Please charge the following credit card: Mastercard ☐ Visa ☐ Amex ☐☐ 50% deposit to confirm the booking, with the remaining amount to be paid 60 days prior to the event☐ Please charge 100% of the sponsorship/exhibition item☐ Direct debit: I would like to pay via EFT, please send me an invoice for 50% ☐ or 100% of sponsorship item selected ☐

Card number

Expiry date / CCV No.

Total Paid \$

Signature

Cardholders name

(Please Print)

Bank Transfer: Internet Bank Transfer
to the following account details:-
Account Name: MECCA Concepts Pty
Ltd – AHUG Conference Account
Bank: National Australia Bank
BSB No: 083 166
Account No: 89 048 6099
Swift Code: NATAAU3303M

General Terms and Conditions for ABHUG Conference & Workshops 2019

Sponsorship / Exhibition booking is held when sponsor agreement booking form completed and returned to Conference Organiser. An invoice will be sent for the item. Invoices and monies are in Australian Dollars and are GST inclusive. Sponsorship/Exhibition confirmed once payment received. In the event of cancellation, sponsors/exhibitors are required to inform MECCA Concepts Pty Ltd in writing. Unless sponsored item/exhibition can be resold, the Organisers reserve the right to retain monies paid. Promotional activity must not impinge on or directly interfered with any other sponsor/exhibitor. Sponsors and Exhibitors are liable for any damage they cause to the venue and or the exhibition booths. The organiser is not liable for damages or loss to sponsor or exhibitor's property. Exhibitors must be adequately covered for Public and Product liability insurance. It is the responsibility of the exhibitor to arrange appropriate insurance for items within their exhibition. Location of Corporate Company banners will be at the Organisers discretion.

Australasian Boilers & HRSG Users Group (ABHUG) - Conference & Workshop

30 October - 1 November 2019, Brisbane, QLD

Registration Form

REGISTER ONLINE AT: WWW.ETOUCHES.COM/ABHUG2019

or complete the form & fax to MECCA Concepts Pty Ltd Fax: +61 3 9530 4286 or scan & email to rachel@meccaconcepts.com.au



TITLE: FIRST NAME: LAST NAME

POSITION:

ORGANISATION:

ADDRESS:

CITY: STATE: POST CODE:

TELEPHONE: () MOBILE: EMAIL:

DIETARY OR MOBILITY REQUIREMENTS:

| Registration: (all prices are in Australian dollars and include 10% GST) | | Pay on or before September 9 | Full Registration |
|--|--|------------------------------------|------------------------------------|
| <input type="checkbox"/> | ABHUG Conference & Workshops (30, 31 October & 1 November) Fee includes: refreshments and lunches on Wednesday, Thursday, and Friday and Networking Drinks on Wednesday evening. | \$1350.00 <input type="checkbox"/> | \$1450.00 <input type="checkbox"/> |

Accommodation - Novotel Brisbane South Bank, 38 Cordelia Street, South Brisbane

Rooms are subject to availability. Room rates are AUD\$230.00 room only or AUD\$255.00 room + breakfast for one. One night's accommodation fee is due on registration. Please provide your credit card details to guarantee your booking and will be provided to the hotel if you fail to check in. You will be responsible for settling your account directly with the hotel on your departure.

Hotel cancellation policy: Cancellations made within 14 days of your arrival date will incur the cost of all nights booked.

My booking - Standard room without breakfast \$230.00 ☐ Standard room + breakfast for one \$255.00 ☐

Please reserve for the following dates Arriving / Departing /

I have provided my credit card details below to secure my booking ☐

Payment Details

Please charge the following credit card: Mastercard ☐ Visa ☐ Amex ☐

A cheque payable to MECCA Concepts Pty Ltd - ABHUG is enclosed ☐ Direct debit: I have paid by EFT (Bank details below) ☐

Card number

Expiry date / CCV No. Total Paid \$ (includes one night's accom if applicable)

Signature Cardholders name

Bank Transfer: Internet Bank Transfer to the following account details:-

Account Name: MECCA Concepts Pty Ltd - AHUG Conference Account

Bank: National Australia Bank BSB No: 083 166 Account No: 89 048 6099 Swift Code: NATAAU3303M

Cancellations: If you are unable to attend, a substitute delegate is welcome at no extra charge. Where no substitute is available, a fee of \$165 will be deducted from your registration fee for cancellations received by MECCA Concepts in writing at least 28 days prior to the event. Thereafter no refunds will be made. Our Privacy Policy: By registering for this conference, relevant details will be held on a database by ABHUG and MECCA Concepts. An attendee list will be provided to all participants (name, position and organisation only). If you do not wish your information to be used in this manner, please advise MECCA Concepts.

Conference Organiser:

MECCA CONCEPTS

Contact: Rachel Washington, Director MECCA Concepts Pty Ltd

Mobile: 61 (0) 412 996 711 Fax: 61 3 9530 4286

Email: rachel@meccaconcepts.com.au