



ABHUG 2024

Australasian Boilers & HRSG Users Group
Conference and Workshops
3 - 5 December 2024, Brisbane, QLD



Day 1 – Tuesday 3rd December 2024

- 8:30 Registration
- 9:00 to 9:15 **Introductory Remarks by ABHUG Co-Chairs.**
B. Dooley Structural Integrity, UK and R. Anderson Competitive Power Resources, USA.
- 9:15 to 9:45 **Update and Statistics on HRSG Thermal Transients.**
R. Anderson, Competitive Power Resources, USA.
- 9:45 to 10:15 **A 32MW Coal Fired Boiler with Widespread Corrosion of its Wall Tubes.**
A. Zunker, PEI, New Zealand.
- 10:15 to 10:45 **Morning coffee/tea within Exhibits, sponsored by TLG Engineering.** 
- 10:45 to 11:15 **Side Wall Penetration Seals and Ash Hopper Case Study.**
R. Russell, Dekomte Australia and J. Waterhouse, Dekomte, UK.
- 11:15 to 11:45 **Secondary and Tertiary Superheater Inlet Header Tube Stub Cracking.**
G Visser and J. Gleeson, CS Energy, Australia.
- 11:45 to 12:30 **Questions and General Open Floor Discussion**
Sponsor Presentation: *HRL and Precision Iceblast Corp.*
- 12:30 to 14:00 **Working Lunch within Exhibits.**
- 14:00 to 14:30 **Optimising Performance of the Power Plant.**
S. Clayton, HRL, Australia.
- 14:30 to 15:00 **Combined Cycle HPSH and RH Attenuator Turndown Control and Piping Improvements, Including Component Reverse Engineering and Bench Testing Considerations.**
S. Bond, Bond Engineering, Australia.
- 15:00 to 15:30 **Questions and General Open Floor Discussion**
Sponsor Presentation: *Swan Analytical*
- 15:30 to 16:00 **Afternoon coffee/tea within Exhibits, sponsored by TLG Engineering.** 
- 16:00 to 16:30 **Inspection and Assessment of Nozzle Defects on High Pressure (HP) Feedwater Heater. A Case Study.**
D. Ross and A. Abolis, SRG Global, Australia.
- 16:30 to 17:00 **Update and Statistics on HRSG and Boiler Cycle Chemistry Control and FAC.**
B. Dooley, Structural Integrity, UK.
- 17:00 to 17:30 **IAPWS, AUSAPWS and NZAPWS Updates.**
B. Dooley, Structural Integrity, UK, D. McAllister, Loy Yang B, Australia and D. Addison, Thermal Chemistry, New Zealand.
- 17:30 **Day 1 Concludes**
- 17:30 to 19:00 **Networking, Social Gathering and Drinks within Exhibits. "Brisbane Evening".**

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Day 2 – Wednesday 4th December 2024

8:30 to 8:45 Review of Day One. Exhibits and Discussion

8:45 to 9:15 ***Analysis of Drivers of High Superheater Temperatures for a Coal-fired Boiler.***
S. Mann, A. van Niekerk and M.S. Mahmud, AGL Energy, Australia.

9:15 to 9:45 ***Addressing Damage Mechanisms in HRSGs.***
D. Snow, Quest Integrity, Australia.

9:45 to 10:15 ***Boiler Integrity Program.***
W. Hill, EnergyAustralia, Australia.

10:15 to 10:45 **Morning coffee/tea within Exhibits, sponsored by TLG Engineering.**



10:45 to 11:15 ***Corrosion Control Documents (CCD) for the Power Industry.***
R. Kunrath, Quest Integrity, New Zealand.

11:15 to 11:45 ***Backup Production of Ultrapure Water at AGL Bayswater Power Station.***
R. Seth, Water Rentals Pty Ltd, Australia.

11:45 to 12:15 **Questions and General Open Floor Discussion**
Sponsor Presentation: Flotech Controls

12:15 to 13:15 **Working Lunch within Exhibits.**

13:15 to 13:45 ***Electric Heating of HRSGs in Wet Layup.***
R. Anderson, Competitive Power Resources, USA. .

13:45 to 14:15 ***Deaerator Cracking, Blowdown System Erosion and Early Life Creep Damage.***
B. Ho, INPEX, Australia

14:15 to 14:45 **Questions and General Open Floor Discussion**
Sponsor Presentation: Duff & Macintosh and HMA Instrumentation

14:45 to 15:15 **Afternoon coffee/tea within Exhibits, sponsored by TLG Engineering.**



15:15 to 15:45 ***HRSG Inspection Tool - A Novel Remote Visual Inspection Approach.***
G. Gordon, Altrad Babcock, UK.

15:45 to 16:15 ***The Latest International Activities on Film Forming Substances from Seven IAPWS International FFS Conferences and Assessments Worldwide.***
B. Dooley, Structural Integrity, UK. and D. Addison, Thermal Chemistry, New Zealand.

16:15 to 16:45 **Questions and General Open Floor Discussion**

17:00 **Day 2 Concludes**

18:00 to 20:30 **ABHUG Dinner Cruise - departing from Cultural Centre Pontoon, 80A Grey Street, South Brisbane**
Vessel name is Mirimar II
Boarding at 17:45, Departure at 1800 sharp.

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Day 3 – Thursday 5th December 2024

- 8:30 to 8:45 Review of Day Two, General Open Floor Discussion and Questions
- 8:45 to 9:15 **Revision of AS 3788: Boilers and Pressure Vessel – In-service Inspection.**
R. Coade, HRL, Australia.
- 9:15 to 9:45 **Film Forming Substance (FFS) Impacts on Heat Transfer.**
D. Rodman, Nalco/Ecolab, Australia and R. Situ, James Cook University, Australia.
- 9:45 to 10:15 Questions and General Open Floor Discussion
Sponsor Presentation: *Intertek*
- 10:15 to 10:45 **Morning coffee/tea within Exhibits, sponsored by TLG Engineering.** 
- 10:45 to 11:15 **Dead Leg Concerns for CCGTs - Capital Power.**
T. Burnett and N. Kumar, Intertek, USA; and D. Godin, Capital Power, Canada.
- 11:15 to 11:45 **Non-fossil Future Steam Production for Australian Industries (biomass, electrode boilers, high temperature heat pumps, steam compressors, geothermal, solar thermal, nuclear etc).**
D. Addison, Thermal Chemistry, New Zealand.
- 11:45 to 12:15 Questions and General Open Floor Discussion
Sponsor Presentation: *RTR Group*
- 12:15 to 13:45 **Working Lunch within Exhibits.**
- 13:45 to 14:15 **Utilising Drones to gain Quantitative Asset Insights.**
T. Davison and C. Brucki, SRG Global, Australia.
- 14:15 to 14:45 **Advanced Inspection Ahead of Major Outages.**
J. Odium and B. Craig, HRST, USA.
- 14:45 to 15:15 **Afternoon coffee/tea within Exhibits, sponsored by TLG Engineering.** 
- 15:15 to 15:45 **Evaluation of Cleaning Technologies for Fouling Removal and Potential Tube Damage in Boilers and Heat Recovery Steam Generators.**
S. Rosinski and B. Carson, EPRI, USA; and R. Anderson, Competitive Power Resources, USA.
- 15:45 to 16:15 **LYB Reheater Repair and Lessons Learnt.**
D. Desiatov, Loy Yang B, Australia.
- 16:15 to 16:45 Questions and General Open Floor Discussion
- 17:00 **Day 3 Concludes**

ABHUG 2024 is chaired by
Barry Dooley, Structural Integrity Associates, and
Bob Anderson, Competitive Power Resources,
with the assistance of a Steering Committee consisting of:

David Addison, Thermal Chemistry, NZ
Russell Coade, HRL, Australia
Ivan Currie, Energy Australia, Australia
Stuart Mann, AGL, Australia
Duncan McAllister, LYB Operations & Maintenance Pty Ltd, Australia
Ian Rawlings, CS Energy, Australia
Charles Thomas, Quest Integrity, NZ

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