



# ABHUG 2023

Australasian Boilers & HRSG Users Group  
Conference and Workshops

Tuesday 14 - Thursday 16 November 2023  
Brisbane



## Day 1 – Tuesday 14th November 2023

- 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 **Improved Attemperator Control and Startup Procedure to Avoid Overspray and Overshooting of HPSH and RH Outlet Temperatures**  
R. Anderson, Competitive Power Resources, USA
- 9:45 to 10:15 **Case Study of a Tube Rupture on a 40 MW Boiler.**  
A. Zunker, PEI, New Zealand
- 10:15 to 10:45 Morning coffee/tea within Exhibits.
- 10:45 to 11:15 **Status of HRSG Insulation and Repair after 20 years in Service at Swanbank.**  
F. Hua and B. Kreis, CleanCo Queensland Limited, Australia
- 11:15 to 11:45 **Cycle Chemistry Updates at Loy Yang B.**  
D. McAllister, Loy Yang B, Australia.
- 11:45 to 12:30 Questions and General Open Floor Discussion  
Sponsor Presentation: Sky Loo, **HRL Technology Group**
- 12:30 to 14:00 Working Lunch within Exhibits.
- 14:00 to 14:30 **Implementation of a Software Package for Tracking Pressure Equipment Maintenance.**  
W. Hill, EnergyAustralia, Australia
- 14:30 to 15:15 Questions and General Open Floor Discussion  
Sponsor Presentation: Jace Finkenbine, **Precision Iceblast**
- 15:15 to 15:45 Afternoon coffee/tea within Exhibits.
- 15:45 to 16:15 **Metallurgical Investigations of HRSG Tube Failures in Superheater and Evaporator Circuits.**  
N. Goodman and S. Ghaziof, Quest Integrity, New Zealand.
- 16:15 to 16:45 **Update and Statistics on Fossil and HRSG Cycle Chemistry Control and FAC.**  
B. Dooley, Structural Integrity, UK.
- 16:45 to 17:15 **IAPWS, AUSAPWS and NZAPWS Updates**  
B. Dooley, Structural Integrity, UK., D. McAllister, Loy Yang B, Australia, and D. Addison, Thermal Chemistry, New Zealand.
- 17:15 Day 1 Concludes
- 17:15 to 19:15 Networking, Social Gathering and Drinks within Exhibits. "Brisbane Evening".

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## Day 2 – Wednesday 15th November 2023

- 8:30 to 8:45 Review of Day One. Exhibits and Discussion
- 8:45 to 9:15 **Replacement of HP Superheater and Reheater Tube Modules During the Major NewGen Kwinana 2022 Shutdown**  
[D. Gitsham](#), NewGen Kwinana, Australia.
- 9:15 to 9:45 **Flow-Accelerated Corrosion in a 50 year Old Boiler.**  
D. Coldham and R Coade, and [H. Zhu](#), HRL Technology Group, Australia.
- 9:45 to 10:15 **Recent Learnings at APA.**  
[D. Pang](#) and [J. Pang](#), APA, Australia
- 10:15 to 10:45 Morning coffee/tea within Exhibits.
- 10:45 to 11:15 **Creep-Fatigue Life Assessment and Weld Risk-Ranking of P91 HP Piping System**  
[N. Stanbridge](#), Quest Integrity Australia Ltd., Australia
- 11:15 to 12:00 Questions and General Open Floor Discussion  
Sponsor Presentation: [J. Orban](#), **Duff & Macintosh/ Sentry**
- 12:00 to 13:30 Working Lunch within Exhibits.
- 13:30 to 13:50 **Mini-Workshop on NDE/Inspection**  
**Inspection of Reheater Tubes using LFET to Find Standby Corrosion**  
[B. Rhead](#), D. Charman IRISNDT, Australia and [J. Cruickshank](#), AGL Australia.
- 13:50 to 14:10 **Development of Ultrasonic Inspection for Cracking in Secondary Superheater Inlet Stubs.**  
[A. Abolis](#) and A. Chapman, SRG Global, Australia and A. van Niekerk, AGL, Australia
- 14:10 to 14:30 **Workshop Discussion - Latest NDE/Inspection Tools and Procedures**
- 14:30 to 15:00 Questions and General Open Floor Discussion  
Sponsor Presentation: [R. Ghosh](#), **Intertek**
- 15:00 to 15:30 Afternoon coffee/tea within Exhibits.
- 15:30 to 16:00 **Attemperator Leak Detection Preventing Steam Tube Damage**  
D. Funk, Flexim, Germany and [C. Weihermüller](#), Flexim, Singapore
- 16:00 to 16:30 **Improving Reliability of Degassed Conductivity after Cation Exchange Measurement with EDI Technology**  
[L. Staub](#), J. Gath and M. Nogales, SWAN Analytische Instrumente AG., Switzerland.
- 16:30 to 17:00 **The Latest International Activities on Film Forming Substances (FFS).**  
[B. Dooley](#), Structural Integrity, UK.
- 17:00 to 17:15 Questions and General Open Floor Discussion
- 17:15 Day 2 Concludes

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## Day 3 – Thursday 16th November 2023

- 8:30 to 8:45 Review of Day Two, General Open Floor Discussion and Questions
- 8:45 to 9:15 ***Unique Cycle Chemistry Problems at Kogan Creek Distribution.***  
K. Rose, CS Energy, Australia.
- 9:15 to 9:45 ***Boiler Chemical Cleans at Bayswater Power Station.***  
M. Harris, AGL, Australia.
- 9:45 to 10:15 Questions and General Open Floor Discussion  
Sponsor Presentation: Julian Pretorius, **Flotech Controls**
- 10:15 to 10:45 Morning coffee/tea within Exhibits.
- 10:45 to 11:15 ***The Effects of Low Load Boiler Operation on Evaporator (Waterwall) Tubes and First Stage Superheater Tubes***  
A. Beveridge, Alinta Energy Australia
- 11:15 to 11:35 ***Update on Hexavalent Chromium.***  
D. Addison, Thermal Chemistry, New Zealand.
- 11:35 to 12:15 Questions and General Open Floor Discussion  
Sponsor Presentation: Chris Wellard, **Swan Australasia**
- 12:15 to 13:45 Working Lunch within Exhibits.
- 13:45 to 14:15 ***High Energy Piping Drain Attachments Failure and Inspection***  
K. Gharat, SRG Global Asset Care, Australia
- 14:15 to 14:45 ***Mobile Reporting for the Power Industry.***  
R. Ghosh, Intertek, USA and S. Subramanian, TransAlta, Canada
- 14:45 to 15:15 Afternoon coffee/tea within Exhibits.
- 15:15 to 15:45 ***High Cycling of HRSG - Inspections and Findings.***  
K. Cowley, Engie, Pelican Point, Australia.
- 15:45 to 16:15 ***Update and Statistics on HRSG Thermal Transients***  
R. Anderson, Competitive Power Resources, USA.
- 16:15 to 16:45 Questions and General Open Floor Discussion
- 17:00 Day 3 Concludes

ABHUG 2023 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  
Stuart Mann, AGL, Australia  
Ivan Currie, Energy Australia, Australia  
Ian Rawlings, CS Energy, Australia  
Charles Thomas, Quest Integrity, NZ



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