

# ABHUG 2022



## Australasian Boiler & HRSG Users Group Conference and Workshops

Tuesday 15 - Thursday 17 November 2022, Brisbane  
Brisbane Convention & Exhibition Centre



ABHUG 2022 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  
Michael Drew, ANSTO, Australia  
Stuart Mann, AGL, Australia  
Keith Newman, Synergy, Australia  
Armand du Randt, Genesis Energy, NZ  
Matthew Sands, CleanCo Queensland, Australia  
Charles Thomas, Quest Integrity, NZ



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with



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## Day 1 – Tuesday 15th November 2022

- 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 **Four Years of Flexible Operation at Darling Downs.**  
A. Shinde, Origin, Australia.
- 9:40 to 10:10 **Remaining Life Assessment of Reheater Tubes.**  
S. Mann and A. van Niekirk, AGL, Australia.
- 10:10 to 10:40 Morning coffee/tea within Exhibits.
- 10:40 to 11:10 **Failure Analysis of a High Stressed Bolted Structure Operating in a Corrosive and High Temperature Environment.**  
G. Schumacher, Energy Australia, Australia, and D. Bell, D. Charman and N. Xu, IRISNDT, Australia.
- 11:10 to 12:00 Questions and General Open Floor Discussion  
Sponsor Presentation: S. Loo, HRL
- 12:00 to 13:30 Working Lunch within Exhibits - Sponsored by Ecolab 
- 13:30 to 14:00 **The Changes in Creep Strength of P91 due to In-Service Aging.**  
C. Thomas, Quest Integrity NZL Ltd., New Zealand
- 14:00 to 14:30 **Case Study of a Tube Rupture on a 40 MW Boiler.**  
A. Zunker, PEI, New Zealand.
- 14:30 to 15:00 Questions and General Open Floor Discussion  
Sponsor Presentation: C. Wellard, SWAN Australia
- 15:00 to 15:30 Afternoon coffee/tea within Exhibits.
- 15:30 to 16:00 **The Importance of Careful Assessment of Aging HRSG HP Superheater and Reheater Headers.**  
B. Craig, HRST, USA.
- 16:00 to 16:30 **IAPWS, AUSAPWS and NZAPWS Updates**  
B. Dooley, Structural Integrity, UK., D. McAllister, Loy Yang B, Australia and D. Addison, Thermal Chemistry, New Zealand
- 16:30 to 17:00 Questions and General Open Floor Discussion  
Sponsor Presentation: A. Tatarj, Mettler Toledo
- 17:00 Day 1 Concludes -  
Networking, Social Gathering and Drinks within Exhibits. "Brisbane Evening".

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## Day 2 – Wednesday 16th November 2022

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

8:45 to 11:50 **ABHUG Workshop on Film Forming Substances (FFS)**

8:45 **The Latest International Activities on Film Forming Substances.**  
B. Dooley, Structural Integrity, UK.

9:15 **Application of a Film Forming Substance at Kogan.**  
K. Rose, CS Energy, Australia.

9:45 to 10:00 Workshop Questions and Discussion

10:00 to 10:30 **Morning coffee/tea within Exhibits.**

10:30 **AGL Experiences with using Film Forming Substances (FFS).**  
B. Soutar, and M. Harris, AGL, Australia.

11:00 **The Due Diligence Required for a Film Forming Substance Application in a CCGT Plant.**  
D. Addison, Thermal Chemistry, New Zealand.

11:30 to 11:50 Workshop Questions and Discussion

11:50 to 12:00 Sponsor Presentation: N. Leonard, Duff & Macintosh

12:00 to 13:30 **Working Lunch within Exhibits.**

13:30 to 14:00 **Failure of a HP Bypass Line to Cold Reheat Pipe Connection.**  
C. Jones, Quest Integrity Australia Ltd., Australia.

14:00 to 14:30 **Addressing Caustic Gouging in an HRSG HP Evaporator Drain System.**  
V. Yeo and J. Spencer, NewGen Kwinana, Australia.

14:30 to 15:00 **Expansion Joints for Longer Life and Increased Cycling.**  
R. Russell, Dekomte de Temple, Germany and J. Waterhouse, Dekomte, UK.

15:00 to 15:30 **Afternoon coffee/tea within Exhibits.**

15:30 to 16:30 **International Experiences – Fossil and HRSG Plants**

**Update and Statistics on Fossil and HRSG Cycle Chemistry Control and FAC.**  
B. Dooley, Structural Integrity, UK.

**Update and Statistics on HRSG Thermal Transients**  
R. Anderson, Competitive Power Resources, USA.

16:30 to 17:00 Questions and General Open Floor Discussion  
Sponsor Presentation: H. Pretorius, Flotech

17:00 **Day 2 Concludes**

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## Day 3 – Thursday 17th November 2022

- 8:30 to 8:45 Review of Day Two, General Open Floor Discussion and Questions
- 8:45 to 9:15 ***Kogan Reheater Investigations – Stub Tube Failure and Temperature Maldistribution.***  
I. Rawlings, CS Energy, Australia.
- 9:15 to 9:45 ***Automatic Control of Furnace Exit Gas Temperature using Advanced IR Pyrometry in HRSGs at a Combined Cycle Power Station.***  
S. Clayton and J. Perry, HRL, Australia.
- 9:45 to 10:15 Questions and General Open Floor Discussion
- 10:15 to 10:45 **Morning coffee/tea within Exhibits.**
- 10:45 to 11:15 ***Change from Stable Operation to Flexible Dispatch at Loy Yang B.***  
D. McAllister, Loy Yang B, Australia.
- 11:15 to 11:45 ***Back End GT Efficiency.***  
J. Bause, Groome Industrial Service Group, USA.
- 11:45 to 12:15 Questions and General Open Floor Discussion  
Sponsor Presentation: J. Lew, Talcyon
- 12:15 to 13:45 **Working Lunch within Exhibits.**
- 13:45 to 14:15 ***Steam Turbine Nozzle Plate – Assessment, Repair and Defect Tolerance / Remaining Life Assessment.***  
B. Ham, N Nguyen, H Better and R Coade, HRL Technology Group, Australia.
- 14:15 to 14:45 ***Boiler Drum Operational Limit Analysis in Light of More Flexible Operation***  
A. Abolis, ALS Global, Australia.
- 14:45 to 15:15 **Afternoon coffee/tea within Exhibits.**
- 15:15 to 15:45 ***Layup Guidelines for Wet and Dry Storage.***  
W. Hill, Energy Australia, Australia.
- 15:45 to 16:15 ***Pelican Point 20 Years of Service - Problems and Experiences.***  
K. Cowley, Engie, Pelican Point, Australia.
- 16:15 to 16:45 ***Improvements of HRSG Superheater and Reheater Attenuator Controls.***  
B. Smith, Provecta, Australia.
- 16:15 to 17:00 Questions and General Open Floor Discussion
- 17:00 **Day 3 Concludes**

Please visit our Exhibitors:

**Duff & Macintosh**  
ABN 69 000 019 018

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