

# ABHUG 2021

## IAPWS Australasian Boiler & HRSG Users Group Virtual Conference

**16 - 18 November 2021**

11am - 2.00pm NZDT (Auckland)

9am - 12.00noon AEDT (Sydney, Melbourne)

8am-11.00am AEST (Brisbane)

6am - 9.00am AWST (Perth)



The IAPWS Australasian Boiler and HRSG Users Group (ABHUG) will conduct its annual meeting virtually on Tuesday 16 to Thursday 18 November 2021; three hours each morning for three days.

Up until 2018 the Australasian HRSG Users Group (AHUG) has met annually to discuss all aspects concerning HRSGs. In 2019 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 changed 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.

IAPWS ABHUG 2021 will feature presentations on plant operation, maintenance, layup, and chemistry. It will also feature interactive discussions with presenters, equipment specialists and users. 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.

### *Who should register?*

*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.*

### MECCA CONCEPTS

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



Photo courtesy of Tallawarra Plant

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**HRSG FORUM**



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**PPCHEM**  
The Journal of All Power & Plant Chemistry Areas





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## ABHUG2021 AGENDA / PROGRAMME

**All times on the Agenda are: 8am - 11.00am AEST (Brisbane)**

Which is equivalent to: 11am - 2.00pm NZDT (Auckland)  
9am - 12.00noon AEDT (Sydney, Melbourne)  
6am - 9.00am AWST (Perth)

**Each presentation has a 25 minute time slot which includes time for questions / answers**  
**Each sponsor presentation has a 10 minute slot**

### Day 1 – Tuesday, 16th November 2021 .... times are Brisbane-based time zone

- 8:00 to 8:10 **Opening Remarks.**  
B. Dooley Structural Integrity, UK and R. Anderson Competitive Power Resources, USA.
- 8:10 to 8:35 **Swanbank - An Update on the Challenges being Experienced During the Transition to a Renewable Economy.**  
J. Blake and M. Sands, CleanCo Queensland Limited, Australia.
- 8:35 to 9:00 **Management of Corrosion Fatigue at Liddell Power Station.**  
Md. Mahmud, M. R. Ratheesh, R. Lang, S. Taylor and S. D. Mann, AGL Energy, Australia.
- 9:00 to 9:20 **Questions / Answers and General Open Discussion**  
**Sponsors Presentation - Duff & Macintosh/Sentry. N Leonard**
- 9:20 to 9:45 **Introduction to Electrode Boilers – Pros, Cons and Issues.**  
D. Addison, Thermal Chemistry, New Zealand.
- 9:45 to 10:10 **IAPWS / Chemistry Updates including Film Forming Substances (FFS).**  
B. Dooley, Structural Integrity, UK.
- 10:10 to 11:00 **Questions / Answers and General Open Discussion**  
**Sponsors Presentations - Ecolab, D Rodman; HRL, P McPhee**
- 11:00 Day 1 Concludes**

### Day 2 – Wednesday, 17th November 2021 .... times are Brisbane-based time zone

- 8:00 to 8:10 **Day 2 Remarks.**  
B. Dooley Structural Integrity, UK and R. Anderson Competitive Power Resources, USA.
- 8:10 to 8:35 **Introduction to INPEX ILNG CCPP: 2 Years of Operation.**  
B. Ho and M. Jance, INPEX, Perth, Australia.
- 8:35 to 9:00 **Mechanism and Root Cause of Boiler Overload Failure.**  
G. Visser and D. Ross, ALS Global, Australia.
- 9:00 to 9:30 **Questions / Answers and General Open Discussion**  
**Sponsors Presentations - HRST Inc, L Stanley; RTR GmbH, R Collins**
- 9:30 to 9:55 **Minimal Chemistry Instrumentation Required for the Safe Operation of a Power/Cogen Plant.**  
K. Buecher, Mettler-Toledo, USA.
- 9:55 to 10:20 **Effect of Gas Turbines Upgrades on HRSG Performance, Operation and Reliability.**  
E. Almberg and L. Stanley, HRST, USA.
- 10:20 to 10:45 **Update on HP Bypass Erosion.**  
R. Anderson, Competitive Power Resources, USA.
- 10:45 to 11:05 **Questions / Answers and General Open Discussion**  
**Sponsors Presentations - SWAN Australia, C Wellard; Water Treatment Services, L Hough**
- 11:05 Day 2 Concludes**

### Day 3 – Thursday, 18th November 2021 .... times are Brisbane-based time zone

- 8:00 to 8:10 **Day 3 Remarks.**  
B. Dooley Structural Integrity, UK and R. Anderson Competitive Power Resources, USA.
- 8:10 to 8:35 **Collie Power Station Flexibility Improvements.**  
Y. Tian, Synergy, Australia.
- 8:35 to 9:00 **Boiler Feedwater Contamination Incident at Rio Tinto.**  
S. Gree, Rio Tinto, Gladstone, Australia.
- 9:00 to 9:30 **Questions / Answers and General Open Discussion**  
**Sponsors Presentations - Anodamine Australia, J O'Rourke; Mettler Toledo, S Jordan Hill**
- 9:30 to 9:55 **Selecting Which CUI Inspection Technology Should be Used.**  
D. Bell, IRISNDT, Australia.
- 9:55 to 10:20 **FAC Assessment at AGL's Bayswater.**  
M. Harris, AGL, Melbourne, Australia.
- 10:20 to 10:45 **FEA and Creep-Fatigue Crack Growth in Headers Subject to Flexible Operation.**  
D. Blanks, Quest Integrity, Australia.
- 10:45 to 11:00 **Questions / Answers and General Open Discussion**  
**Sponsors Presentation - Energy Plant Solutions, B Stephenson**
- 11:00 Day 3 Concludes**



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## Conference Committee

ABHUG 2021 is chaired by Barry Dooley, Structural Integrity Associates, UK and Bob Anderson, Competitive Power Resources, USA with the assistance of a Steering Committee consisting of:

David Addison, Thermal Chemistry, NZ  
John Blake, CleanCo, QLD  
Russell Coade, HRL, VIC  
Michael Drew, ANSTO, NSW  
Armand Du Randt, Genesis Energy Ltd, NZ  
Stuart Mann, AGL, VIC  
Keith Newman, Synergy, WA  
Charles Thomas, Quest Integrity, NZ

## Sponsorship Opportunities

Sponsorship are available again this year.

Virtual Sponsor Benefits:

- One registration
- 10 minutes to address the attendees
- Emailout to all delegates (sent on sponsors behalf)
- Logo on all conference correspondence
- Logo on Sponsor Page on website and where possible during online conference

Total cost only AUD\$400.00

Please contact Rachel Washington for sponsorship enquiries:  
[rachel@meccaconcepts.com.au](mailto:rachel@meccaconcepts.com.au)

**[REGISTER NOW - CLICK HERE](#)**

## Registration

Delegate registration is AUD\$100 which will give you a link to join the virtual conference for the three hour sessions on three consecutive days.

Delegates will have access to presentations (if permission is granted by speaker) via a portal on the conference website at the conclusion of the event.

*Keep up-to-date by visiting the ABHUG 2021 Conference website:*

<https://www.etches.com/ehome/abhug2021/Home/>

***Visit the website to Register and for any new information.***

ABHUG is kindly supported by



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