



9th

International European HRSG Forum 2023

Monash University
Prato Centre via Pugliesi 26
Prato, Italy



WHEN

16th to 18th MAY 2023

WHERE

Monash University, Prato Italy

COST

€800 Earlybird

€900 Standard

€800 Speaker

WHY

The major themes of this international conference will include:

- HRSG tube failures (HTF) (FAC, thermal fatigue, creep-fatigue, under-deposit corrosion)
- Pressure part failure mechanisms related to condensate, drains, and attemperator systems
- Identifying and avoiding damaging thermal transients in pressure parts
- Water treatment and cycle chemistry for HRSGs including Film Forming Substances (FFS)
- HRSG preservation for different operational modes
- Behavior and measurement of total iron for operation and daily start/stop
- Material selection and new material applications
- Optimization of plant controls
- Environmental aspects
- Fast Start HRSGs
- Troubleshooting and maintenance of large valves
- Improved reliability of steam turbine bypass systems
- Balance of plant including the steam turbine, condenser, and air-cooled condenser.

The conference language will be English.

The International Steering Committee

Barry Cooley (Co-Chair), Structural Integrity, UK
Bob Anderson (Co-Chair), Competitive Power, USA

Dan Blood (Uniper Technologies, UK)

Jose-Maria Bronte (BBT, Spain)

Jean-François Galopin (John Cockerill, Belgium)

Antony Thanos (PPC, Greece)

Kenny Hutchison (GE Gas Power Services,

Switzerland)

Raymond Gunnewijk (Heat Transfer Technology,
The Netherlands)

SPONSORSHIP AND EXHIBITION

A limited number of exhibition booths and sponsorships will be available on a first-come-first-serve basis. Those interested in these should contact Rachel Washington at MECCA Concepts to ensure participation on: rachel@meccaconcepts.com.au

MEDIA SPONSOR:



PROGRAM - DAY 1

Day 1 – Tuesday 16th May 2023.

- 8:00 **Registration Open**
- 8:30 - 8:45 **Introductory Remarks by Forum Co-Chairs.**
B. Dooley and R. Anderson
- 8:45 - 9:15 **HRSG Primary Reheater (RH1) Tube Failures and Remedies.**
T. Chelvan, Siemens-Energy, USA., T. Basaran and O. Genc, Hamitabat Combined Cycle Plant, Limak Enerji, Turkey.
- 9:15 - 9:45 **The Impact of Hydrogen Fired Gas Turbines on HRSGs.**
F. Perrone, S. Ruijgrok and P. Rop, NEM Energy B.V., The Netherlands.
- 9:45 - 10:15 **Carbon Capture Aspects Associated with Combined Cycle/HRSG Plants.**
J-F Galopin, John Cockerill, Belgium.
- 10:15 - 10:45 **Morning coffee/tea within Exhibits.**
- 10:45 - 11:15 **Attemperator Replacements.**
B. Kitterman, Bremco, USA.
- 11:15 - 12:00 **Questions and General Open Floor Discussion**
Sponsor Presentation:
- 12:00 - 13:30 **Working Lunch within Exhibits.**
- 13:30 - 14:00 **Attemperator Leak Detection to Prevent Steam Tube Damage**
D. Funk, Flexim, Germany
- 14:00 - 14:30 **New HRSG Cleaning Method – Case Studies Included.**
J. Bause, Groome Industrial Service Group, USA.
- 14:30 - 15:00 **Questions and General Open Floor Discussion**
Sponsor Presentation:
- 15:00 - 15:30 **Afternoon coffee/tea within Exhibits.**
- 15:30 - 16:00 **EMUS-4-STRESS – A New Thermal Fatigue Monitoring Approach Based on Electromagnetic Acoustic Transducers.**
M. Weikert-Müller, F. Weber, S. Thieltges, and K. Szielasko, IZFP Saarbrücken Germany; M. Smaga, TU Kaiserslautern, Germany; F. Silber, MPA Stuttgart, Germany; J. Rudolph, S. Bergholz and E. Bechtgold, Framatome GmbH, Germany.
- 16:00 - 16:30 **Air In-Leakage Effects on Corrosion and Operation Efficiency in HRSG Systems.**
M. Çetin, S. Altun and M. Laçın, Bandırma Enerji Üssü, Enerjisa Üretim, Turkey.
- 16:30 - 17:00 **The Latest International Activities on Film Forming Substances.**
B. Dooley, Structural Integrity, UK.
- 17:00 - 17:15 **Questions and General Open Floor Discussion**
- 17:15 **Day 1 Concludes**
- 17:30 **Network Function – Welcome Drinks on the Terrace – Monash University Prato**

PROGRAM - DAY 2

Day 2 – Wednesday 17th May 2023.

- 8:30 - 8:45 Review of Day One. Exhibits and Discussion
- 8:45 - 9:15 Recent Experience on Water Chemistry Challenges / FAC on New and In-Service HRSGs.
K. Hutchison, GE Gas Power Services, Switzerland
- 9:15 - 9:45 Improved Preservation and Flexible Power Plant Operation with Film Forming Amines – Case Studies and Experiences from Several Combined Cycle Units.
R. Wagner, Reicon, Germany.
- 9:45 - 10:15 Upgrade, Energy Saving, Efficiency Improvements, CO2 Emission Reduction Applied to Mid-aged HRSG and Life Time Extension Applied to Old HRSG.
R. Stevens and H. Grini, John Cockerill, Belgium.
- 10:15 - 10:45 **Morning coffee/tea within Exhibits.**
- 10:45 - 11:15 PressureWave+ Deep Cleaning, Special Application on Two Projects in Italy (including customer feedback).
M. Bürgin and S. Zaninelli, Bang & Clean Technologies AG., Switzerland.
- 11:15 - 12:00 **Questions and General Open Floor Discussion**
Sponsor Presentation:
- 12:00 - 13:30 **Working Lunch within Exhibits.**
- 13:30 - 14:00 Efficiency Increase due to Thermal Shock Free Attenuators.
K. van Wijk, Advanced Valve Solutions, B.V., The Netherlands.
- 14:00 - 14:30 Oxide Growth and Exfoliation (OGE) and Other Related Mechanisms in the Reheater of a Combined Cycle HRSG Boiler.
S. Gomez, BBE, Spain and D.P. Rial, DiagnóstiQA.
- 14:30 - 15:00 **Questions and General Open Floor Discussion**
Sponsor Presentation:
- 15:00 - 15:30 **Afternoon coffee/tea within Exhibits.**
- 15:30 - 16:00 Control Valve Myth-Buster.
P. Galik, Emerson Flow Controls, UK.
- 16:00 - 16:30 Update and Statistics on HRSG Thermal Transients.
R. Anderson, Competitive Power Resources, USA.
- 16:30 - 17:00 Update and Statistics on HRSG Cycle Chemistry Control and FAC.
B. Dooley, Structural Integrity, UK.
- 17:00 - 17:15 **Questions and General Open Floor Discussion**
- 17:15 **Day 2 Concludes**

PROGRAM - DAY 3

Day 3 – Thursday 18th May 2023.

- 8:30 - 8:45 Review of Day Two, General Open Floor Discussion and Questions
- 8:45 - 9:15 Cycle Chemistry at Azito Combined Cycle Power Plant (460 MW).
H. Boua and W. Yede, Azito O&M, Cote d'Ivoire.
- 9:15 - 9:45 Drum Level Instrumentation Compliance with PED and ASME Requirements and Maximizing Service Life.
J. Kolbus, Clark-Reliance, USA.
- 9:45 - 10:15 The Importance of Careful Assessment of Aging HRSG HP Superheater and Reheater Headers.
J. Bierschbach, HRST, USA.
- 10:15 - 10:45 **Morning coffee/tea within Exhibits.**
- 10:45 - 11:15 Development of Innovative Technology for Attenuation in Heat Recovery Steam Generators.
S. Rosinski and B. Carson, EPRI, USA, and R. Anderson, Competitive Power Resources, USA.
- 11:15 - 12:00 **Questions and General Open Floor Discussion**
Sponsor Presentation:
- 12:00 - 13:30 **Working Lunch within Exhibits.**
- 13:30 - 14:00 An Independent HRSG Inspector's Evaluation Guide of Various Commercially Available HRSG Heat Transfer Tubes Cleaning Methods at Various HRSGs for Dry Flaky to Sticky, Salty and Oily Foulants.
T. Chelvan, Siemens-Energy, USA.
- 14:00 - 14:30 An Update and Summary of Penetration Seal Solutions for HRSGs.
J. Waterhouse, Dekomte, UK.
- 14:30 - 15:00 **Questions and General Open Floor Discussion**
Sponsor Presentation:
- 15:00 - 15:30 **Afternoon coffee/tea within Exhibits.**
- 15:30 - 16:00 Creep Rate Monitoring by Diametrical Measurement on Superheaters and Reheaters Outlet Manifolds, and High Temperature Pipes.
A. Platon and A. Stofer, EdF, France.
- 16:00 - 16:30 Ensuring Reliable Performance of Turbine Bypass Systems in Wet Steam Service.
S. Conti, Coso Parcol, Italy.
- 16:30 - 17:00 Applications to Increase Availability and Efficiency in HRSG.
E. Erdal and B. Çalık, Bandırma 1 Combined Cycle Plant, Turkey.
- 17:00 - 17:15 **Questions and General Open Floor Discussion**
- 17:15 **Day 3 Concludes**

SPONSORSHIP AND EXHIBITION

Gold Sponsorship €5800

Sponsorship of this item includes...

- Company name and logo displayed
 - » acknowledgement on Conference Program
 - » on all promotional material
- Opportunity to display banner in the conference room (pull up banner only to be provided by the sponsor)
- Opportunity for a 10 minute presentation to address attendees
- One complimentary exhibition table
- Two complimentary registration to all conference activities

Exhibition Booths €2000

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 Tuesday to Thursday will be served in the exhibition display area.

The exhibition package includes the following...

- 1 power point per space
- 1 x dressed trestle table and two chairs
- Opportunity for a 10 minute presentation to address attendees
- One complimentary registration to all conference activities.
- Additional "Exhibitor Only" (not conference) passes can be purchased for €400 (max 2).
- Acknowledgement on Conference Program

Name Badges and Lanyards €1500

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 on Conference Program

Refreshment Breaks : €1300 for 3 days OR €500 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 on Conference Program

Networking Reception €1000

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

Sponsorship of this item includes...

- Opportunity to display and give out promotional material during the Reception.
- Acknowledgement sign on refreshment table during the Reception
- Acknowledgement on Conference Program

SPONSORSHIP & EXHIBITION:
For enquiries please contact:
Rachel Washington
rachel@meccaconcepts.com.au

REGISTRATION

Delegate registration is
€800 Earlybird
€900 Standard
€800 Speaker

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.

REGISTER NOW: <https://europeanhrsgforum.com/>

Accommodation for conference :- please look on the [EHF Website](#) for information on accommodation in Prato. For further information on prices and location, please access the hotels' website but note that the list is not in any particular order. It is recommended that you fully research your accommodation, prior to making a booking, to ensure that it meets your needs and expectations. *Note: Please book all accommodation with the hotels directly - via their website.*

Travel and Prato Centre information :- Travel to Prato and Prato centre information can be found via links on the [EHF website](#)

EHF WEBSITE: <https://europeanhrsgforum.com/>

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Please contact Rachel Washington for sponsorship or exhibition enquiries:
rachel@meccaconcepts.com.au

KEEP UP TO DATE: <https://europeanhrsgforum.com/>