



10th International European HRSG Forum 2024

**Monash University
Prato Centre via Pugliesi 26
Prato, Italy**



WHEN

13th to 15th MAY 2024

WHERE

Monash University, Prato Italy

COST

€900 Standard

€800 Speaker

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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 Dooley (Co-Chair), Structural Integrity, UK

Bob Anderson (Co-Chair), Competitive Power, USA

Dan Blood, Uniper Energy, UK

Jose-Maria Bronte, Bahía Bizkaia Electricidad, Spain

Antony Thanos, PPC, Greece

Jean-François Galopin, John Cockerill, Belgium

Raymond Gunnewijk, Nem-Energy, The Netherlands

Kenny Hutchison, GE Gas Power Services, USA

MEDIA SPONSOR:



PROGRAM

Day 1 – Monday 13th May 2024

- 8:30 Registration Open
- 9:00 - 9:15 **Introductory Remarks** by Forum Co-Chairs. B. Dooley and R. Anderson
- 9:15 - 9:45 **Metallurgical Failure Analysis of HRSG Pressure Parts.**
J. Henry, Applied Thermal Coating, USA.
- 9:45 - 10:15 **New Developments in HRSG Remote Inspections.**
S. Gowatski, TesTex, Inc., USA.
- 10:15 - 10:45 **Morning coffee/tea within Exhibits.**
- 10:45 - 11:15 **Duct Burners: Upgrading and Retrofitting Aging Systems.**
J. Arnold, B. Gurski and R. Fiorenza, Zeeco, Inc., USA/UK.
- 11:15 - 11:45 **Emergency Repairs, a Case for Chemical Cleaning for Under Deposit Corrosion.**
B. Kitterman, Bremco, USA.
- 11:45 - 12:15 **Questions and General Open Floor Discussion**
Sponsor Presentation: Precision Iceblast
- 12:15 - 13:45 **Working Lunch within Exhibits.**
- 13:45 - 14:15 **KinetiClean™ - HRSG Tube Cleaning Technology.**
J. Bause, Groome Industrial Service Group, USA.
- 14:15 - 14:45 **Balance-of-plant BOP Based Expert System Screening for Corrosion Fatigue Sensitivity.**
J. Rudolph, A. Zander, U. Wildner and S. Lafitte Framatome GmbH, Germany.
- 14:45 - 15:15 **Questions and General Open Floor Discussion**
Sponsor Presentation: Viking Vessel Services
- 15:15 - 15:45 **Afternoon coffee/tea within Exhibits.**
- 15:45 - 16:15 **Improvements in HRSG Upstream Temperature Control and Avoidance of Emergency Shutdowns.**
F. Giove, IMI Critical – CCI, Italy and P. De Giulio, Chivasso Power Plant - A2A Gencogas, Italy.
- 16:15 - 16:45 **Essential Results of the Cycle Chemistry of the HRSG boiler of a 420 MW Benson CCGT in Different Operating Modes.**
L. Morávková, ZSE Elektrárne, s.r.o., Slovakia.
- 16:45 - 17:15 **The Latest International Activities on Film Forming Substances.**
B. Dooley, Structural Integrity, UK.
- 17:15 - 17:45 **Questions and General Open Floor Discussion**
- 18:00 - 20:00 **Welcome Networking Reception** – Garden, Monash University, Prato
Welcome Network Reception sponsored by Viking Vessel Services

PROGRAM

Day 2 – Tuesday 14th May 2024

- 8:30 - 8:45 **Review of Day One.** Exhibits and Discussion
- 8:45 - 9:15 **H₂ Impact for In-Service HRSGs.**
K. Hutchison and G-L. Agostinelli, GE Vernova, HRSG Services, Switzerland
- 9:15 - 9:45 **Large Movement HRSG Penetration Seals for Next Generation Larger HRSGs.**
J. Waterhouse, Dekomte, UK.
- 9:45 - 10:15 **Upgrade, Efficiency Improvements, Energy Saving: John Cockerill offers and per forms various innovative solutions.**
R. Stevens, John Cockerill, Belgium.
- 10:15 - 10:45 **Morning coffee/tea within Exhibits.**
- 10:45 - 11:15 **Advanced Steam Turbine Shell Warming System for Significant Plant Startup Improvement.**
P. Arnold, Arnold Group, Germany.
- 11:15 - 12:00 **Questions and General Open Floor Discussion**
Sponsor Presentation: Altrad
- 12:00 - 13:30 **Working Lunch within Exhibits.**
- 13:30 - 14:00 **LP-bypasses in Start/Stop Operation.**
M. Reus and K. van Wijk, Advanced Valve Solutions, B.V., The Netherlands.
- 14:00 - 14:30 **HRSG Inspection Tool – A Novel Remote Visual Inspection Approach.**
G. Gordon, Altrad Babcock, UK. and A. Stofer, EdF, France.
- 14:30 - 15:00 **Questions and General Open Floor Discussion**
Sponsor Presentation: Arnold Group
- 15:00 - 15:30 **Afternoon coffee/tea within Exhibits.**
- 15:30 - 16:00 **Boiler Feedwater Valve Upgrade Design.**
S. Conti, Koso Parcol, Italy.
- 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**
- 18:30 - 22:00 **Conference Dinner - Conservatorio San Niccolo – Prato**
Conference Dinner sponsored by Dekomte

PROGRAM

Day 3 – Wednesday 15th May 2024

- 8:30 - 8:45 Review of Day Two, General Open Floor Discussion and Questions
- 8:45 - 9:15 **HRSG Lifetime Extension by Investigating and Integrating Measures for Upgrade Existing HRSGs and BoP.**
P. Rop and R. Gunnewijk, Nem-Energy, The Netherlands.
- 9:15 - 9:45 **Integrity Assessment and Repair of the HRSG Following Failure of Stack.**
S. Keyne, Uniper Technologies Limited, UK.
- 9:45 - 10:15 **Dissimilar Welds by Friction Welding with WAAM Transition Piece.**
N. Debroux, John Cockerill, Belgium; S. Huysmans, ENGIE Laborelec, Belgium; and R. Nunes and K. Faes, Belgian Welding Institute, Belgium.
- 10:15 - 10:45 **Morning coffee/tea within Exhibits.**
- 10:45 - 11:15 **Evaluation of Explosive Cleaning Technologies for Fouling Removal in Boilers and 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: Valve Pro
- 12:00 - 13:30 **Working Lunch within Exhibits.**
- Mini-Workshop on Tee Damage**
- 13:30 - 14:00 **Industry Update on Tee Damage.**
I. Perrin, Triaxis, USA and J. Siefert, EPRI, USA.
- 14:00 - 14:30 **Repair Strategies for Creep Damaged Components.**
J. Siefert, EPRI, USA and I. Perrin, Triaxis, USA.
- 14:30 - 15:00 **Questions and General Open Floor Discussion**
Sponsor Presentation: Groome International
- 15:00 - 15:30 **Afternoon coffee/tea within Exhibits.**
- 15:30 - 16:00 **Cycle Chemistry Low Cost Improvements to Mitigate FAC at Flexible Operation.**
F. Silva, Pampa Energia, Argentina
- 16:00 - 16:30 **Questions and General Open Floor Discussion**
- 16:30 **Day 3 Concludes**

SOCIAL FUNCTIONS

Welcome Networking Reception

Join your colleagues for the Welcome Networking Reception on Day 1. Mingle in the gardens of **Monash University, Prato**. One ticket is included in your registration. Additional tickets are available at €40

WHEN: Monday 13 May 2024, 18:00 - 20:00

The Welcome Networking Reception is proudly sponsored by Viking Vessel:



Conference Dinner

This year we have included a Conference Dinner on Day 2. Join your colleagues for networking and good food at the **Conservatorio San Niccolo – Prato**.

One ticket is included in your registration. Additional tickets are available at €95

WHEN: Tuesday 14 May 2024, 18:30 - 22:00

The Dinner is proudly sponsored by Dekomte:



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