



6th International Conference on Film Forming Substances Prato, Italy



WHEN

21st - 23rd MARCH 2023

WHERE

Monash University - Prato Centre
via Pugliesi 26, Prato Italy

COST

€800 Earlybird
€900 Standard
€800 Speaker

WHY

The conference will be of major interest to: operational personnel, technical managers, plant engineers, boiler operators, cycle and plant chemists, researchers and corrosion scientists, and service providers as well as manufacturers of major plant components and chemicals.

The major themes of this international conference will be dedicated to advancing the knowledge and introducing the latest science about film forming substances (FFS). Scientific papers and case studies will provide excellent insights into the latest developments in this field of cycle chemistry as well as numerous examples of the application of film forming substances (amine and non-amine based) in fossil, combined cycle, biomass, nuclear, industrial, geothermal, and other plants.

More information on the timing and registration will be announced shortly.

The conference language will be English.

THE INTERNATIONAL STEERING COMMITTEE:

Barry Dooley (Chair), Structural Integrity, UK

David Addison (CoChair), Thermal Chemistry, NZ

Jörg Fandrich, Framatome, Germany

Keith Fruzzetti, EPRI, USA

Matt Harris, AGL, Australia

Marion Roy, SECR CEA, France

Roy van Lier, Yara, Belgium

Christophe Wesoluch, EDF, France

SPONSORSHIP & EXHIBITION:

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

MEDIA SPONSOR:



PROGRAM - DAY 1

Day 1 – Tuesday 21st March 2023.

8:30 Registration

9:00 - 9:30 **Film Forming Substances, History and Background to FFS International Conferences, and the Needed Research.**
B. Dooley, Structural Integrity, UK

9:30 - 10:00 **Cetamine Treatment in a HRSG in Spain leads to Energy and Water Savings through Total Iron Control.**
A. de Bache, M. Pallares and J. Martinez, Kurita Europe, Germany

10:00 - 10:30 **Investigation of FFAs Adsorption Kinetics in Presence of Oxygen Scavengers by Electrochemical Impedance Spectroscopy.**
D. Jero, F. Chaussec and A. Buvignier, ODYSSEE Environnement, France; N. Pébère, Université de Toulouse, France; M. Roy, CEA, France; and T. Buffeteau, Université de Bordeaux, France.

10:30 - 11:00 **Morning coffee/tea within Exhibits.**

11:00 - 11:30 **PWR Operating Experience on the Application of Film Forming Amines.**
U. Ramminger, J. Fandrich and E. Dudka, Framatome GmbH, Germany.

11:30 - 12:15 **Questions and General Open Floor Discussion**
Sponsor Presentation:

12:15 - 13:45 **Working Lunch within Exhibits.**

13:45 - 14:15 **Comparison ODA vs. Dryer in Preservation.**
J. Hagge, Siemens, Germany.

14:15 - 14:45 **Steam Condenser Efficiency Improvements with FFAs.**
M. Budhathoki and D. Meskers, Veolia Water Technologies and Solutions, USA.

14:45 - 15:15 **Questions and General Open Floor Discussion**
Sponsor Presentation:

15:15 - 15:45 **Afternoon coffee/tea within Exhibits.**

15:45 - 16:15 **Application of ODA in an Industrial 8 MW Electrode Boiler Retrofit Project.**
D. Addison, Thermal Chemistry, New Zealand.

16:15 - 16:45 **Practical Methods and Best Practices for Monitoring Iron Transport Products and Film Forming Amines.**
D. Slovacek, Hach Company, USA.

16:45 - 17:15 **Questions and General Open Floor Discussion**
Sponsor Presentation:

17:15 Day 1 Concludes

17:30 - 19:30 **Networking function – Welcome drinks on the Terrace – Monash University Prato**

PROGRAM - DAY 2

Day 2 – Wednesday 22nd March 2023.

- 8:30 - 8:45 **Review of Day One. Exhibits and Discussion**
- 8:45 - 9:15 **Protection of Steam Turbines during Flexible Operation with Film Forming Amines.**
R. Wagner, Reicon, Germany.
- 9:15 - 9:45 **Improvement in the Treatment of Boilers in the Food Industry using Polyamines.**
I-A. Toader and M. Koken, Fineamin SA, Switzerland.
- 9:45 - 10:15 **Characterizing and Evaluating the Effectiveness of Film-forming Products in Laboratory Test Projects.**
A. Howell and B. Burns, EPRI, USA; D. Hall and A. Ganesan, Pennsylvania State University, USA
- 10:15 - 10:45 **Morning coffee/tea within Exhibits.**
- 10:45 - 11:15 **Filming Product Application for Use in PWRs/PHWRs: EPRI Nuclear Program Update and General Corrosion Testing.**
I. Duncanson, K. Fruzzetti and J. Jarvis, EPRI, 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 **Evaluation of the Degassed Cation Conductivity Induced by Film Forming Amine Conditioning in Waste Energy Recovery Unit.**
A. Buvignier, F. Bertrand and F. Chaussec, ODYSSEE Environnement, France
- 14:00 - 14:30 **Using FFS in Cooling and Auxiliaries Systems in a Combined Cycle - Field Experience.**
Y. Nussbaum, Ezom, Israel.
- 14:30 - 15:00 **Effects of Film Forming Amines (FFAs) on Hideout and Hideout Return of Pollutants Present in the Steam Generators of Pressurized Water Reactors (PWR).**
M. Roy, R. Abadie and D. You, CEA, Université Paris-Saclay, France; L. Verelst, Engie Lab Laborelec, Belgium and J. Tireau, EDF R&D, France.
- 15:00 - 15:30 **Afternoon coffee/tea within Exhibits.**
- 15:30 - 16:30 **Panel Discussion – FFS Application for Generating Plants**
Chair: B. Dooley, Structural Integrity, UK.
- 16:30 - 17:00 **Questions and General Open Floor Discussion**
Sponsor Presentation:
- 17:00 **Day 2 Concludes**

PROGRAM - DAY 3

Day 3 – Thursday 23rd March 2023.

- 8:30 - 8:45 **Review of Day Two, General Open Floor Discussion and Questions**
- 8:45 - 9:15 **FFS: Summary of Science.**
D. Addison, Thermal Chemistry, New Zealand.
- 9:15 - 9:45 **Analytical Methods for Determination of Film Forming Amine Concentration in Water Solutions.**
S. Vidojkovic, University of Belgrade, Serbia, R. Lindeboom, TU Delft, The Netherlands, and M. Mijajlovic, University of Nis, Serbia.
- 9:45 - 10:15 **Role of FFS in the Context of Midlife Refurbishment Outages of PHWR of CANDU Design.**
J. Fandrich and U. Ramminger, Framatome GmbH, Germany, and M. Giurgea, SN Nuclearelectrica SA, Romania.
- 10:15 - 10:30 **Questions and General Open Floor Discussion**
- 10:30 - 11:00 **Morning coffee/tea within Exhibits.**
- 11:00 - 11:30 **Online-Cleaning of Turbines with FFS.**
J. Kallweit, Wasserbehandlung Kallweit GmbH, Germany.
- 11:30 - 12:00 **Next Generation Boiler Water Treatment in Food and Beverage Industry.**
J. Jasper, and D. Disci, Kurita Europe, Germany.
- 12:00 - 12:20 **Questions and General Open Floor Discussion**
Sponsor Presentation:
- 12:20 - 13:45 **Working Lunch within Exhibits.**
- 13:45 - 14:15 **Research Needs for Film Forming Substances Applied in Water-Steam Cycles.**
W. Hater, Germany.
- 14:15 - 15:15 **Panel Discussion – FFS Research Needs**
Chair: B. Dooley, Structural Integrity, UK.
- 15:15 - 15:45 **Afternoon coffee/tea within Exhibits.**
- 15:45 - 16:15 **An Inspector's Perspective, Survey of Film Forming Substance Usage on Heat Recovery Steam Generators (HRSGs).**
D. Heyn, HRST, Inc., USA.
- 16:15 - 16:45 **Successful Implementation of ODA Based FFAP in a CHP Center at a Large Fertilizer Producer.**
D. Haimovitz, FlowTech, Israel.
- 16:45 **Questions and Final Discussion**
- 17:00 **Day 3 Concludes**

REGISTRATION

Delegate registration is

€800 Earlybird - closes Friday 27th January 2023 at 5.00pm your local time

€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://filmformingsubstances.com>

Accommodation for conference :- please look on the [FFS 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 [FFS website](#)

FFS WEBSITE: <https://filmformingsubstances.com>

INTERNATIONAL STEERING COMMITTEE

- Barry Dooley (Chair), Structural Integrity, UK
- David Addison (CoChair), Thermal Chemistry, NZ
- Jörg Fandrich, Framatome, Germany
- Keith Fruzzetti, EPRI, USA
- Matt Harris, AGL, Australia
- Marion Roy, SECR CEA, France
- Roy van Lier, Yara, Belgium
- Christophe Wesoluch, EDF, France

SPONSORSHIP & EXHIBITORS

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

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
-