



# 5th International Conference on Film Forming Substances Virtual Event 2022



## WHEN

22nd - 23th MARCH 2022 AND  
29th - 30th MARCH 2022  
Four half-day sessions  
European CEST 0900-1230hrs  
UK 0800-1130hrs

## WHERE

ONLINE in English

## COST

€100

## WHY

The conference will be of major interest to: operational personnel, technical managers, plant engineers, boiler operators, cycle and plant chemists, 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.

## Thanks to our Sponsors



## MORE INFORMATION

For sponsorship and registration enquiries please contact:  
Rachel Washington  
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<https://na.eventscloud.com/ehome/ffs2022/home/>

# PROGRAM

Virtual Meeting Dates: **Tuesday/Wednesday (22nd/23rd) and Tuesday/Wednesday (29th/30th) March 2022**  
All times on Agenda are: 9 am – 12:30 pm CEST (European Time)  
which is equivalent to: 8 am – 11:30am (United Kingdom)

*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, 22nd March 2022 ... times are CEST European-based time zone

- 9:00 to 9:10 **Opening Remarks and Introduction to FFS2022.**  
CEST European time *B. Dooley, Structural Integrity, UK and D. Addison, Thermal Chemistry, New Zealand.*
- 9:10 to 9:35 **Preservation Technologies using ODA Based FFAP for Power Plants with and without Air Cooled Condensers.**  
*R. Wagner, Reicon, Germany.*
- 9:35 to 10:00 **11 Years of Application of Film Forming Amines in NPP Almaraz Units.**  
*U. Ramminger and J. Fandrich, Framatome, Germany; and C.A. Alonso, A.U. Boned and J.M.A. Rubiales, CNAT, Spain.*
- 10:00 to 10:30 **Questions / Answers and General Open Discussion**  
**Sponsors Presentations:**  
Kurita Water
- 10:30 to 10:55 **Film-Forming Amines Based Water Treatment in Open Cooling Tower Systems.**  
*M. Koken, Fineamin SA, Switzerland.*
- 10:55 to 11:20 **Experience with ODA CON Dosing at Jönköping Energy Biopant.**  
*A. Zietek, Jönköping Energi AB, Sweden.*
- 11:20 to 11:45 **The Effects of POWERFILM 10000 Dosing on Full Flow, Condensate Polisher Resin at AGL's Liddell Power Station.**  
*D. Rodman and P. Pascoe, NALCO Water, Australia; L. Robinson and M. Harris, AGL, Australia, and D. Quan, Purolite, Australia.*
- 11:45 **Questions / Answers and General Open Discussion**  
**Sponsors Presentations:**  
Suez
- 12:30 Day 1 Concludes

## Day 2 – Wednesday, 23rd March 2022 ... times are CEST European-based time zone

- 9:00 to 9:05 **Day 2 Good Morning and Remarks.**
- 9:05 to 9:20 **Film Forming Substances, History and Background to FFS International Conferences, and the Needed Research.**  
*B. Dooley, Structural Integrity, UK and D. Addison, Thermal Chemistry, New Zealand.*
- 9:20 to 9:45 **Steam-side Corrosion in Air-Cooled Condensers.**  
*A. Howell, EPRI, USA and S. Shulder, Retired, USA*
- 9:45 to 10:10 **Film Forming Corrosion Inhibitors: Key Insights with Photoelectron Spectroscopy.**  
*K. Kousar, M.S. Walczak, M. Dowhyj, A.S. Walton and R. Lindsay, University of Manchester, UK; T. Ljungdahl, A. Wetzel, and H. Oskarsson, Nouryon, Sweden; P. Restuccia, and N.M. Harrison, Imperial College London, UK.*

# PROGRAM

- 10:10 to 10:30 **Questions / Answers and General Open Discussion**  
**Sponsors Presentations:**  
Fineamin
- 10:30 to 10:55 **Linking Thermoelectric Effect and Adsorption of Film Forming Amine in Industrial Systems.**  
*F. Cuog, J. Benguigui, C. Geijselaers and F. Lampert, SABIC Limburg B.V., The Netherlands.*
- 10:55 to 11:20 **Adsorption Kinetics of Film Forming Amines on Carbon Steel Surfaces Using Electrochemical Impedance Spectroscopy.**  
*D. Jero, N. Caussé and N. Pébère, Université de Toulouse, France; T. Buffeteau, Université de Bordeaux, France; F. Chaussec and A. Buvignier, ODYSSEE Environnement-Service R&D, France; and M. Roy, Université Paris-Saclay, France.*
- 11:20 to 11:45 **Switching from Non-Amine FFS to Blend of Amine/Non-Amine FFS at the Hunter Plant.**  
*G. Hoffman, PacifiCorp, USA.*
- 11:45 **Questions / Answers and General Open Discussion**  
**Sponsors Presentations:**  
Advanced Valve Solutions
- 12:30 Day 2 Concludes

## Day 3 – Tuesday, 29th March 2022 ... times are CEST European-based time zone

- 9:00 to 9:05 **Day 3 Good Morning and Remarks.**
- 9:05 to 9:20 **Application Choices for Fossil and Combined Cycle Plants.**  
*D. Addison, Thermal Chemistry, New Zealand, and B. Dooley, Structural Integrity, UK.*
- 9:20 to 9:45 **Study of Film-forming Amines in the Conditions of Secondary Circuit of PWR: Interaction between Magnetite and Octadecylamine at Different Temperatures.**  
*J. Lee, S. Marcelin, B. Ter-Ovanesian and B. Normand, Université de Lyon, France; A. Astorg and J. Tireau, EDF R&D Department, France; and G. Lefevre, PSL Research University, France.*
- 9:45 to 10:10 **IAPWS Technical Guidance Document (TGD) for the Application of FFS in Nuclear Plants.**  
*J. Fandrich, Framatome, Germany.*
- 10:10 to 10:30 **Questions / Answers and General Open Discussion**  
**Sponsors Presentations:**  
Ecolab Nalco
- 10:30 to 10:55 **Laboratory Results on the Effect on FAC of the FFA Product, Cetamine® G851, under Two-phase Flow Conditions at Elevated pH.**  
*S. Weerakul, N. Leaukosol and D. Lister, University of New Brunswick, Canada, and S. Mori, Kurita Water Industries, Japan.*
- 10:55 to 11:10 **Film Forming Substances and Instrumentation - The Good, The Bad and The Ugly.**  
*H. Stansfield, Waltron Bull & Roberts, USA.*
- 11:10 to 11:35 **Application of Film-Forming Substances in Geothermal Process.**  
*H. Sile, Kurita Turkey Kimya A.Ş., Turkey, A. de Bache, D. Disci, C. Foret, and D. Cherrad, Kurita Water GmbH, Germany.*
- 11:35 **Questions / Answers and General Open Discussion**  
**Sponsors Presentations:**  
Waltron Bull & Roberts
- 12:30 Day 3 Concludes

# PROGRAM

## Day 4 – Wednesday, 30th March 2022 ... times are CEST European-based time zone

- 9:00 to 9:10 **Opening Remarks.**  
*B. Dooley, Structural Integrity, UK and D. Addison, Thermal Chemistry, New Zealand.*
- 9:10 to 9:35 **Use of ODA in Severely Corroded Industrial Hot Water Boiler Application.**  
*D. Harrison, Visentia Limited, New Zealand, A. Richards, Fonterra, New Zealand, and D. Addison, Thermal Chemistry, New Zealand*
- 9:35 to 10:00 **Filming Product Application for Use in PWRs/PHWRs: EPRI Nuclear Program Update and Elastomer Compatibility Testing.**  
*K. Fruzzetti, J. Jarvis and I. Duncanson, EPRI, USA.*
- 10:00 to 10:30 **Questions / Answers and General Open Discussion**  
**Sponsors Presentations:**  
Reicon
- 10:30 to 10:55 **Corrosion Inhibition using Three Anionic Surfactants in an Acidic Environment.**  
*L. Earnden, J. Van Der Zalm, A. Chen, A. Marangoni, E. Pensini, University of Guelph, Canada, and R. van Lier, Yara, The Netherlands,*
- 10:55 to 11:20 **Effect of ODA on Flow Accelerated Corrosion.**  
*A. Vansteene, A. Astorg, R. Bonzom, J. Dubois, A. Le Drou, and J. Tireau, EDF R&D Department, France*
- 11:20 to 11:45 **Advances in Studies of Film Forming Amines under Steam Generator Conditions.**  
*S. Vidjokovic, TU Delft, The Netherlands and University of Belgrade, Serbia, and R. Lindeboom, TU Delft, The Netherlands.*
- 11:45 **Questions / Answers and General Open Discussion**  
**Sponsors Presentations:**  
Sponsor 8
- Chairman Concluding Remarks**
- 12:30 Day 4 Concludes

## INTERNATIONAL STEERING COMMITTEE

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

# SPONSORSHIP & REGISTRATION

## REGISTRATION:

Delegate registration is €100 which will give you a link to join the virtual conference for the half-day sessions on each of the four conference days.

Presenter Registration – virtual presenters will receive a complimentary registration for the main speaker. You will receive a code to use for registration.

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://na.eventscloud.com/ehome/ffs2022/home/>

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