

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

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

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| 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. <i>B. Dooley, Structural Integrity, UK and D. Addison, Thermal Chemistry, New Zealand.</i> |
| 9:20 to 9:45 | Steam-side Corrosion in Air-Cooled Condensers. <i>A. Howell, EPRI, USA and S. Shulder, Retired, USA</i> |
| 9:45 to 10:10 | Film Forming Corrosion Inhibitors: Key Insights with Photoelectron Spectroscopy. <i>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.</i> |

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- 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. Cuoq, 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

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| 9:00 to 9:10 | Opening Remarks. <i>B. Dooley, Structural Integrity, UK and D. Addison, Thermal Chemistry, New Zealand.</i> |
| 9:10 to 9:35 | Use of ODA in Severely Corroded Industrial Hot Water Boiler Application. <i>D. Harrison, Visentia Limited, New Zealand, A. Richards, Fonterra, New Zealand, and D. Addison, Thermal Chemistry, New Zealand</i> |
| 9:35 to 10:00 | Filming Product Application for Use in PWRs/PHWRs: EPRI Nuclear Program Update and Elastomer Compatibility Testing. <i>K. Fruzzetti, J. Jarvis and I. Duncanson, EPRI, USA.</i> |
| 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. <i>L. Earnden, J. Van Der Zalm, A. Chen, A. Marangoni, E. Pensini, University of Guelph, Canada, and R. van Lier, Yara, The Netherlands,</i> |
| 10:55 to 11:20 | Effect of ODA on Flow Accelerated Corrosion. <i>A. Vansteene, A. Astorg, R. Bonzom, J. Dubois, A. Le Drou, and J. Tireau, EDF R&D Department, France</i> |
| 11:20 to 11:45 | Advances in Studies of Film Forming Amines under Steam Generator Conditions. <i>S. Vidojkovic, TU Delft, The Netherlands and University of Belgrade, Serbia, and R. Lindeboom, TU Delft, The Netherlands.</i> |
| 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