



IAPWS Fourth International Conference on Film Forming Substances (FFS2021)



To be held as a virtual event on 23rd and 25th March 2021.

Content/Topics

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 and other plants.

This IAPWS international conference is being organized by PPCHEM AG in virtual space using GoToWebinar.

For more information and to register, please visit www.iapws-ffs.com/2021.

The conference language will be English.

The International Steering Committee

Barry Dooley (Chair), Structural Integrity, UK
Jörg Fandrich, Framatome, Germany
Keith Fruzzetti, EPRI, USA
Marco Lendi, Swan, Switzerland
Marion Roy, SECR CEA, France

Michael Rziha, PPCHEM, Switzerland
Roy van Lier, Yara, Belgium
Tapio Werder, PPCHEM, Switzerland
Christophe Wesoluch, EDF, France

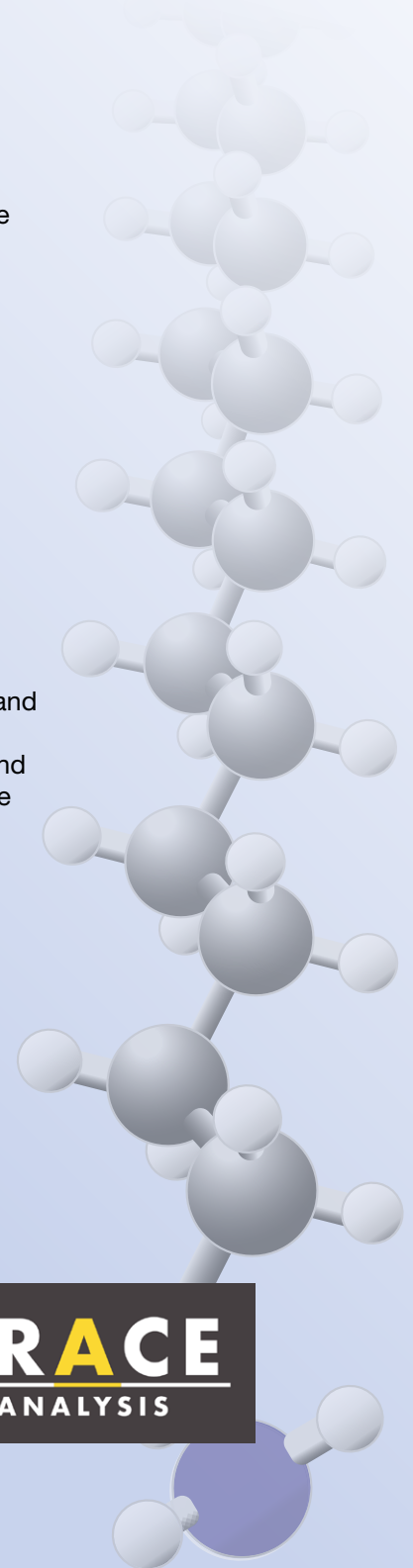
Registration

Early Bird (until February 26, 2021) € 70,00
Regular (from February 27, 2021) € 100,00

For more information on Organization, Registration, and Sponsorships, please visit the website www.iapws-ffs.com/2021, or contact Tapio Werder, PPCHEM AG:

Mobile: +41 79 244 34 92 – E-mail: tapio.werder@ppchem.com.

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Film Forming Substances (FFS2021)



To be held as a virtual event on 23rd and 25th March 2021.

Day 1 – Tuesday, 23rd March 2021.

All Times are European Time (GMT+1).

Each 25 minute presentation slot includes presentation plus 5 minutes question/answers.

11:00 **Opening Remarks.** Conference Chairman: B. Dooley Structural Integrity, UK

Session 1

11:15 **Cetamine[®] Analytical Methods for Industrial Systems.**

A. de Bache, T. Wittig and J. Jasper, Kurita Europa GmbH, Germany.

11:40 **Results of an FFS Trial at Liddell Power Station.**

H. Henderson, AGL Australia.

12:05 **Chemical Correction of the Water-Steam System with the use of Filming Corrosion Inhibitor in the Cyclic Operation of Combined Cycle Gas Turbine Plant.**

M. Rokicki and M. Nietrzeba, POLENERGIA Elektrociepłownia Nowa Sarzyna, Poland, L. Barre, NALCO Europe, France and P. Urbaś, NALCO Polska, Poland.

12:30 **Study and Research on the Effects of using FINEAMIN as a Modern Solution for Conditioning the Feedwater of Power Plants and Industrial Steam Generators.**

A. Lapadat, FINEAMIN Romania, Romania.

12:55 **Open Discussion Period**

Session 2

14:00 **Film Forming Corrosion Inhibitor with Improved Handling, Feeding and Corrosion Control Properties for Steam Generators.**

M. Budhathoki, D. Meskers, G. Robinson and C. Pierce, Suez, USA.

14:25 **Colorimetric Analyzer for Online Analysis of Film Forming Amines.**

H. Stansfield, Waltron Bull & Roberts, USA.

14:50 **Filming Product Application for Use in PWRs/PHWRs: EPRI Nuclear Program Update.**

K. Fruzzetti and J. Jarvis, EPRI, USA, M. Kreider, C. Marks and J. Reinders, Dominion Engineering, Inc., USA.

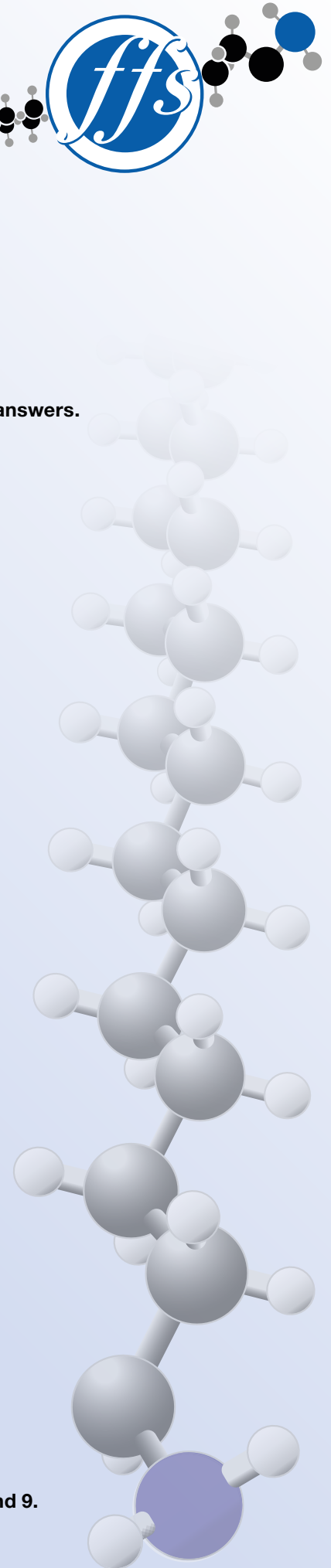
15:15 **Exploring the Effects of OLDA Product G851 on the FAC of Carbon Steel under Two-phase Feedwater Conditions.**

S. Weerakul, N. Leaukosol and D.H. Lister, University of New Brunswick, Canada, and S. Mori, Kurita Water Industries, Japan and W. Hater, Kurita Europe, Germany.

15:40 **The Important Implementation Steps of Applying the IAPWS Technical Guidance Documents on FFS to Fossil and Industrial Plants: Sections 8 and 9.**

B. Dooley, SI, UK. and M. Rziha, PPCHEM AG, Switzerland.

16:05 **Open Discussion Period**





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Day 2 – Thursday, 25th March 2021.

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11:00 **Opening Remarks.** Conference Chairman: B. Dooley Structural Integrity, UK

Session 3

11:15 **History and Updates on ODACON for Fossil and Nuclear Plants.**
R. Wagner, Reicon, Leipzig, Germany and G. Saltanov, VNIIAM, Moscow, Russia.

11:40 **FFS Application for Corrosion Control in a Geothermal Reboiler/Steam Transformer Case Study.**
D. Addison, Thermal Chemistry, New Zealand and N. Vandervegte, Ngati Tuwharetoa Geothermal Assets Ltd., New Zealand.

12:05 **Corrosion in Closed Cooling System – A Risk that can Potentially Impact the Entire Power Plant.**
Y. Nussbaum, EZOM O&M, Israel.

12:30 **Boiling out with FFS Treatment and Polyacrylates in HP Boiler.**
J. Kallweit, Wasserbehandlung Kallweit GmbH, Germany.

12:55 **Open Discussion Period**

Session 4

14:00 **Conversion to AVT(O) using a Film Former.**
G. Hoffman, PacifiCorp, Utah, USA.

14:25 **Electrochemical Impedance Spectroscopy to Study Film-forming Amines for the Corrosion Protection of Carbon Steels.**
J. Baux, N. Pébère, and N. Caussé, Université de Toulouse, France, S. Delaunay and J. Tireau, EDF R&D, France, M. Roy, and D. You, CEA, France.

14:50 **Effect of Film Forming Amines on Magnetite Layer Formation in Water-Steam Cycle.**
S. Vidojkovic, H. Spanjers, and L. Rietveld, Delft University of Technology, The Netherlands, and A. Velriefde, Ghent University, Belgium.

15:15 **Laboratory Testing to Investigate the Effects of Film-Forming Product (FFP) Exposure on Chemistry Analysis Instruments.**
S. Shulder and B. Burns, EPRI, USA, M. Kreider, C. Bunt, B. Hall, C. Hundley and C. Marks, Dominion Engineering, Inc., USA.

15:40 **The Intersection between Analytics and FFS Products**
K. Buecher, Mettler-Toledo, Colorado, USA.

16:05 **Open Discussion Period and Closing Remarks**

