



IAPWS International Conference
on
Film Forming Substances

NH Hotel, Prague City, Czech Republic

Agenda / Programme

Day 1 – Tuesday, 20th March 2018. FFS2018 Agenda

- 8:00** Registration and Welcome Coffee / Tea
- 8:45 to 9:00** *Opening Remarks. Conference Sponsors. IAPWS TGDs*
B. Dooley Structural Integrity, UK
- 9:00 to 9:30** **Session 1.**
A Critical Review of Fossil FFP Applications from a Nuclear Perspective.
J. Fandrich and U. Ramminger, New NP GmbH, Germany
- 9:30 to 10:00** *Use of Film Forming Amine for Conditioning and Preservation of a Municipal Waste Boiler*
K. Thomsen, COWI A/S., Denmark
- 10:00 to 10:15** Short Presentation and Open Discussion Period
- 10:15 to 10:45** Morning coffee/tea within exhibits
- 10:45 to 11:15** **Session 2.**
Lessons Learned during Implementation of ODACON Film Forming Amine Treatment in STEAG Power Plants Bexbach and Weiher.
R. Wagner, Reicon, Leipzig, Germany.
- 11:15 to 11:45** *Fate and Distribution of Film Forming and Alkalizing Amines in Steam - Water Cycles.*
Y. Xue, M. Vanoppen and A. Verliefde, Ghent University, Belgium, A.M. Brunner, D. Vughs and H. Huiting, KWR Watercycle Research Institute, The Netherlands, W. Hater, Kurita, Germany
- 11:45 to 12:15** Short Presentation and Open Discussion Period
- 12:15 to 13:30** Working Lunch within Exhibits



Session 3.

- 13:30 to 14:00** *Anodamine: The Missing Link in OT Chemistry. A Performance & Cost Saving Validation on Supercritical Once-Through Installations.*
[P. Hattingh](#), Anodamine Inc., USA.
- 14:00 to 14:30** *The Impact of Water-Steam Cycle Chemistry Operation on the Application of Filming Amines at NPP Almaraz*
[U. Ramminger](#) and J. Fandrich, New NP GmbH, Germany, and C. Arias and A.U. Boned, Central Nuclear Almaraz, Spain
- 14:30 to 15:00** *Differences in Chemical Monitoring Concepts for Plant using FFS and the Necessary Considerations.*
[M. Rziha](#), Siemens, Germany
- 15:00 to 15:15** **Short Presentation and *Open Discussion Period***

15:15 to 15:30 **Afternoon coffee/tea within exhibits**

Session 4.

- 15:30 to 16:00** *Summary of the Conference "Film Forming Amines in Power Plants", Moscow, 2017.*
T.I. Petrova, Moscow Power Engineering Institute, and [F. Dyachenko](#), Aminotek, Moscow, Russia.
- 16:00 to 16:30** *Experience with Two-phase FAC using FFAP in Combined Cycle Power Plant.*
[L. Lensun](#), Helamin, France.
- 16:30 to 17:00** *Film Forming Amines in the Nuclear Industry. Innovative Technology.*
[A. Kukushkin](#), VNIAM, Russia, V. Omelchuk and I. Poterianskiy, Kola NPP, Russia, and E. Chempik and R. Wagner, REICON GmbH, Germany.
- 17:00 to 17:30** **Short Presentation and *Open Discussion Period***

Day 1 Concludes

18:00 **Evening Social Event.**



Day 2 – Wednesday, 21st March 2018. FFS Agenda

- 8:00** **Opening Coffee / Tea and Remarks**
- 8:30 to 9:00** **Session 5.**
Behavior of Two Products Containing Film Forming Amines (FFA) in the Secondary Circuit Physico-Chemical Conditions of the Pressurized Water Reactor (PWR).
M. Roy and D. You, SECR, CEA, Université Paris-Saclay, France, R. Lecocq and L. Verelst, Engie Lab Laborelec, Belgium, S. Delaunay and J. Tireau, EDF R&D, Renardières, France.
- 9:00 to 9:30** *The Determination of Oleylpropylendiamine on Surfaces of Water-Steam Cycles*
W. Hater and J. Jasper. Kurita, Germany.
- 9:30 to 10:00** *The Effect on Flow-Accelerated Corrosion of the Sequence of Adding a Film-Forming Amine Product Cetamine® and an Alkalizing Agent to Feedwater at 140°C..*
N. Leaukosol, S. Weerakul, and D. Lister, University of New Brunswick, Canada, S. Mori, Kurita, Japan and W. Hater, Kurita Europe, Germany.
- 10:00 to 10:15** **Short Presentation and Open Discussion Period**
- 10:15 to 10:45** **Morning coffee/tea within exhibits**
- 10:45 to 11:15** **Session 6.**
Qualification of Filming Amines / Film-forming Products for Use in PWRs/PHWRs: An Update.
K. Fruzzetti, S. Shulder and M. Caravaggio, EPRI, USA, and M. Kreider, C. Marks and J. Reinders, Dominion Engineering, Inc., USA.
- 11:15 to 11:45** *Operational Experience of Condensate Polishing Units during Application of a Film Forming Product.*
A. Verstraeten, Sloecentrale, The Netherlands.
- 11:45 to 12:15** **Short Presentation and Open Discussion Period**
- 12:15 to 13:30** **Working Lunch within Exhibits**
- 13:30 to 15:00** **Panel Discussion Session 7.**
Chair: B. Dooley, Structural Integrity, UK
- 15:00 to 15:30** **Afternoon coffee/tea within exhibits**



Session 8.

- 15:30 to 16:00** *Experiences with Film Forming Amines in the Water/Steam Cycle of an Ammonia Plant in The Netherlands.*
F. Raeymaeker, OCI Nitrogen, Geleen, The Netherlands, and
[A. de Bache](#), Kurita Europe GmbH, Germany.
- 16:00 to 16:30** *Thermal Decomposition of Film Forming Amines in the Power Generating Cycle*
[S. Vidojkovic](#), Institute of Chemistry, University of Belgrade, Serbia and
M. Mijajlovic, Faculty of Mechanical Engineering, University of Nis, Nis,
Serbia.
- 16:30 to 17:00** *Update on Roadmap to an IAPWS Technical Guidance Document for Nuclear Plants.*
[W. Cook](#) and D. Lister, University of New Brunswick, Canada, and others.
- 17:00 – 17:30** **Short Presentation and Open Discussion Period**

Day 2 Concludes



Day 3 – Thursday, 22nd March 2018. FFS2018 Agenda

- 8:00** **Opening Coffee / Tea and Remarks**
- 8:30 to 9:00** **Session 9.**
Performance Evaluation of Film Forming Amine Product at Mexican Combined-cycle Power Plant,
L. Carvalho, ChemTreat, USA.
- 9:00 to 9:30** *Injection of a Film Forming Amine on an EDF Fuel Power Plant.*
E. Bres, EdF/DIPNN/CEIDR, France, and R. Gervais and C. Luy,
EdF/DPIT/CIT, France
- 9:30 to 10:00** *The IAPWS Technical Guidance Documents on FFS*
B. Dooley, Structural Integrity, UK, W. Hater, Kurita, Germany, and
M. Lendi, Swan, Switzerland.
- 10:00 to 10:30** **Morning coffee/tea within exhibits**
- 10:30 to 11:00** **Session 10.**
Evaluation on Corrosion Protection Performance of Copper Materials by Film Forming Amine in Water-Steam Cycles.
S. Mori, Kurita Water Industries, Japan.
- 11:00 to 11:30** *Amines and a Surprising Maximum of the Electrolytic Conductivity in Aqueous Solutions..*
V. Ender and J. Weber, University of Applied Sciences, Zittau, Germany.
- 11:30 to 12:30** **Short Presentation, Final Discussion Period and Concluding Remarks**
- 12:30** **Lunch**
- 13:30** **Day 3 Concludes**