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

  Session 1.

  9:00 to 9:30 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

  Session 2.

  10:45 to 11:15 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, VNIIAM, 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

Session 5.
8:30 to 9:00 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 Oleylpropyldiamine 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

Session 6.
10:45 to 11:15 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

Panel Discussion Session 7.
13:30 to 15:00 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, 22\textsuperscript{nd} March 2018. FFS2018 Agenda

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<tr>
<td>8:00</td>
<td>Opening Coffee / Tea and Remarks</td>
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<td><strong>Session 9.</strong></td>
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| 8:30 to 9:00 | 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 Filming 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                                  |
| **Session 10.** |                                                |
| 10:30 to 11:00 | 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                                                      |