



The International Association for the Properties of Water and Steam
<http://www.iapws.org>

Power Cycle Chemistry Working Group (PCC WG)

Draft Agenda

Banff, Canada 29th September – 4th October 2019

Sunday September 29th, 19:00 Welcome Reception and Registration

Monday, 30 Sept.

- **09:00 am** **Executive Committee – Opening Plenary Session**
- 10:15 am Coffee / Tea Break

1) 10:30 – 12:00 – PCC WG Meeting

- a) Amendments / Adoption of Agenda
- b) Appointment of Clerk of Minutes
- c) Approval of Minutes of PCC WG in Prague, 2018
- d) Review of Actions from last PCC WG Meeting

e) IAPWS TGD's – (Barry Dooley)

- a) Final approval for the TGD Chemistry in Generator Cooling Water
- b) TGD's Film Forming Substances (FFS)
 - (1) Wolfgang Hater – Trace Analysis of FFA
 - (2) Wolfgang Hater - Investigations on the durability of the protective FFA film
 - (3) Hayden Henderson - The AGL experience with Film-Forming Substances
 - (4) Final approval for the TGD for Industrial Plants
- c) Amended FFS TGD "Application of Film Forming Substances in Fossil, Combined Cycle, and Biomass Power Plants".

☞ **12:00 – 13:30** **Lunch**



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- 2) **13:30 – ca. 17:00 PCC WG Meeting (Coffee Break will be announced separately)**
Continuation IAPWS TGD
- d) **Film Forming Substances (FFS) for Nuclear Plants**
- (1) Kristine Liao - Film Forming Product Qualification at Darlington Nuclear Generation Station
- e) Hayden Henderson – Status **TGD Demin Water Integrity**
- f) Monitoring Corrosion Products in Flexible (cycling and two-shifting) Plants (white paper)
- (1) Karsten Thomsen - Presentation on field test of proxy-methods for CP monitoring
 - (2) Maja Skou Jensen - Update on field test based on Maja's work
 - (3) Karsten Thomsen - Round robin on analytical methods and the implications for the TGD recommendations
 - (4) Karsten Thomsen - New knowledge/recommendations to be included in the present and new TGD
 - (5) Barry Dooley – Oxide Growth and Oxide Behaviour in Steam Water Cycles



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Tuesday, 1 October

09:00 – 12:00 - PCC WG Meeting

Continuation IAPWS TGD

- g) **Geothermal** (white paper)
 - (6) David Addison -Geothermal reboiler chemistry issues – application of IAPWS TGD's to solve water/steam issues
- h) **Condensate Polishing** (white paper)
- i) **Proposals for new TGD's**
 - I. Cycle Chemistry Guidance for Oil Recovery Systems
 - II. Laboratory Management and Instrument Validation
 - III. Flue Gas Condensation
 - IV. Smart Alarms
 - V. Revisions of Currently Published TGD

☞ **12:00 – 13:30 Lunch**

13:30 – 15:30 Joint PCAS & PCC WG Meeting

Discussion and presentation about film-forming substances

- (1) Barry Dooley – Influences of FFS Films on Oxide Growth Mechanisms around Generating Cycles
- (2) Additional presentations / speakers to be confirmed

15:30 – ca. 17:00 PCC WG Meeting

- (1) David Addison - Electrode boilers – water/steam chemistry considerations

Wednesday, 2 October

☞ **09:00 16:00 IAPWS SYMPOSIUM**



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Thursday, 3 October

09:00 – 12:00 - PCC WG Meeting

- a) Progress Reports 2017/2018 and Future PCC Activities
- b) International Collaboration
- c) ICRNs – Review and Possible New Additions
- d) PCC Public Relations / Contribution to Press Release
- e) Changes in PCC Membership and Election of Officers
- f) Adjournment

☞ **12:00 – 13:30 Lunch**

☞ **18:30 IAPWS Dinner / Banquet**

Friday, 4 October Executive Meeting (09:00 – 13:00)