



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

Power Cycle Chemistry Working Group (PCC WG)

Preliminary Schedule

Stockholm, Sweden. 28th June – 03rd July 2015

- Sunday 28 June. 19:00 Informal get-together and registration
- Monday 29 June 08:30 Opening Plenary Session - Executive Committee
- 10:00 **PCC WG Meeting**
1. Agenda
 - Amendments / Adoption of Agenda
 - Week programme: Meetings, Joint Workshops and Task Groups
 2. Appointment of Clerk of Minutes
 3. Approval of Minutes of PCC WG in Moscow, 2014
 4. Progress Reports 2014/2015 and Future PCC Activities
 - Review of Actions from last PCC WG Meeting
 - International Collaboration
 5. IAPWS TGD's – Status and future Development
 - Dooley → Status of Present and future TGD's
 - Approval on amendments of TGD'S for fast start
- 13:30 **PCC WG Meeting**

Presentations

- D.H. Lister, S. Weerakul and M. Caravaggio:
Laboratory tests of the effects of amines on FAC in single-phase and two-phase flows
- Dyachenko Filipp, Petrova Tamara:
The Influence of different types of Helamin on exchange capacity of cation resin
- David Addison:
Chemistry challenges in industrial and CoGen plants – the successful application of IAPWS TGD's into Industrial Plants (Case Study)
- Karsten Thomson:
Experiences with iron analysis in relation to the TGD on corrosion product sampling

16:00 **PCC Task Group Meetings – Lead B. Dooley**

Setting of new task groups

- Film forming amines an Amine use
Marco Lendi → Analysis of FFA
- Corrosion product sampling for cycling plants
Dooley → HRSG HP Evaporator Tube Sampling and Deposit Analysis
- Demineralized Make up water
Joy → Update / Status



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Tuesday 30 June 08:30 **PCC WG meeting**

Presentations

- Hideo Hirano:
BWR and PWR water chemistry guide line in Japan
- Shunsuke Uchida: Corrosion of structural materials and electrochemistry in high temperature water - Relationships of water chemistry, corrosion, oxide film and electrochemical corrosion potential
- Shunsuke Uchida: Water chemistry control based on parameters determined with plant simulation models
- Nobuo Ishihara: Water Chemistry Management Practices of Japanese PWR Plants

10:00 **PCC Workshop**

- TGD HRSG HP Evaporator sampling
- TGD Geothermal
- ICRN 17 closing statement & elaboration of new ICRN

10:00 **separate / parallel PCC Workshop-NUCLEAR**

See separate Agenda on Nuclear !!

13:30 **PCC/PCAS Joint WG Meeting and Workshop**

- F. Marsik, M. Sedlar and P. Zima:
Unstable phenomena induced by cavitating flow around hydrofoil
- D.H. Lister, K. Mohajery and S. Uchida:
The controlling mechanism in FAC – protective oxide dissolution or fluid flow?
- Rudolph Blum: Efficient and clean thermal power plants for the future
- Olga Yegoshina:
Operative estimation of cycle chemistry at thermal power plants using statistical algorithms
- Sonja Vidojkovic:
Surface characteristics of magnetite particles under conditions of power plant water cycles:
Update

15:30 **PCC Workshop / WG Task Group Meetings**

Wednesday 01 July 09:00 **IAPWS Symposium**

15:00 Technical Visit (Details will follow)



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<u>Thursday 02 July</u>	08:30	PCC WG Workshop (continued) <ul style="list-style-type: none">• ICRNs – Review and Possible New Additions• Activities of Standard Organisations (e.g. VGB, EN 12952, IEC)• Technical Guidance Documents → Summary and Status of each individual Task Group• Discussion of Future PCC Activities and Task Groups• PCC Public Relations• Other Action List Items• Priority List Review
	13:30	<u>PCC Task Group Work Summary</u> <ul style="list-style-type: none">• Changes in PCC Membership and Election of Officers• Dates and venue for 2016 Meeting, Germany• Miscellaneous and Adjournment <p>PCC WG Meeting and preparation report to Executive Committee</p>
	18:00	IAPWS Dinner/Banquet at the Wasa Museum (to be confirmed)
<u>Friday 03 July</u>	08:30	Executive Meeting
	13:00	Adjourn

Agenda for the PCC Nuclear Session (Draft)

1. Date: Jun30 (Tue) 10:00-12:00
2. Meeting room: TBD in Scandic Ariadne Hotel
3. Attendants: Derek Lister, Willy Cook (Canada), Keith Fruzzetti (USA), Andreas Drexler (Germany), Nobuo Ishihara, Hideo Hirano, Shunsuke Uchida (Japan)
4. Major topics are as follows;
 - 1) IAPWS Nuclear over view (containing ICRNs related Nuclear) 20 min
 - 2) TGD: Purpose and latest status 10 min
 - 3) Nuclear TGD: Future possibility 50 min
 - 4) Future approach toward contribution of Nuclear group to the IAPWS 30 min
 - 5) Contribution to the ICPWS and others 10 min
 - ICPWS14 (2004, Kyoto) Nuclear session
 - ICPWS15 (2008, Berlin)
 - ICPWS14 (2013, Greenwich) Nuclear session
 - ICPWS (2018, Czech)
 - Members
- 6) Adjourn
 - Round table discussion is to be proposed.