Scandinavian IAPWS Committee
c/o IDA, Kalvebod Brygge 31-33
1780 København V

24 April 2017

SIAPWS annual report for 2016

The annual meeting 2016 was successful with 16 participants at the event that was hosted by Nordjyllands-værket in Denmark. The workshop was interesting with good presentations and discussion afterwards, and the meeting ended with a visit to the ultrasupercritical plant NJV3 and the laboratory, which is specialised in tribology and water chemistry. The discussion at the meeting lead to a decision that the Executive Committee (EC) should focus on improving the exchange of information and experiences across SIAPWS in the coming year, especially with attention on transfer of knowledge to the younger members.

The EC took the task up and discussed several ideas that came together in SIAPWS Water Chemistry Network, a Facebook and web-based network intended for fast transfer of experience, registration and organisation of lasting information, and course activities covering the main aspects of the SIAPWS work field. The main idea is that you should be able to participate from your desk and pc and only occasionally travel to meet your colleagues physically.

The Matarvattenkonferensen in November was the setting for the first presentation of the network and invitation of our colleagues to take part. The first months of the network has seen a slow start, but the EC hopes that colleagues will join as they learn more about the network. The demand that only members of SIAPWS (company or personal) have the full access to the information may be an obstacle. This is necessary of several reasons – access to both IAPWS/PCC and SIAPWS website demands login, and the IAPWS materials is restricted to members only.

The annual IAPWS meeting took place in Dresden this year. As usual, it was an intensive week with workshops, presentations, and discussions. The work in the Power Cycle Chemistry (PCC) group during the year led to release of two new Technical Guidance Documents (TGDs) on criteria for chemical cleaning of Heat Recovery Steam Generators (HRSGs) and application of film forming amines for feed water conditioning. The last one is the first international guide describing the basic chemicals and application of these compounds in the water-steam circuit – *pro et contra*.

The upcoming revision of the TGD on Corrosion Product Sampling and Analysis was another hot topic. The driver for the revision is the wish of many users for guidance regarding plants that operate in flexible mode with frequent load changes and start/stops. This work is well under way, and currently a number of field trials are performed to cover missing knowledge with respect to corrosion product formation and transport under start-up and flexible conditions.

The work on a new TGD on air in-leakage in water-steam circuits has been initiated. This is a common disturbance, the source is often not easy to reveal, and it is costly since the plant efficiency decreases. The intention of the TGD is give systematic guidance on how to test for air in-leakage and methods to locate the source/leak.

SIAPWS takes part in both of the task groups working with the TGD's mentioned here, and several members contribute to the field trials.

Executive Committee

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