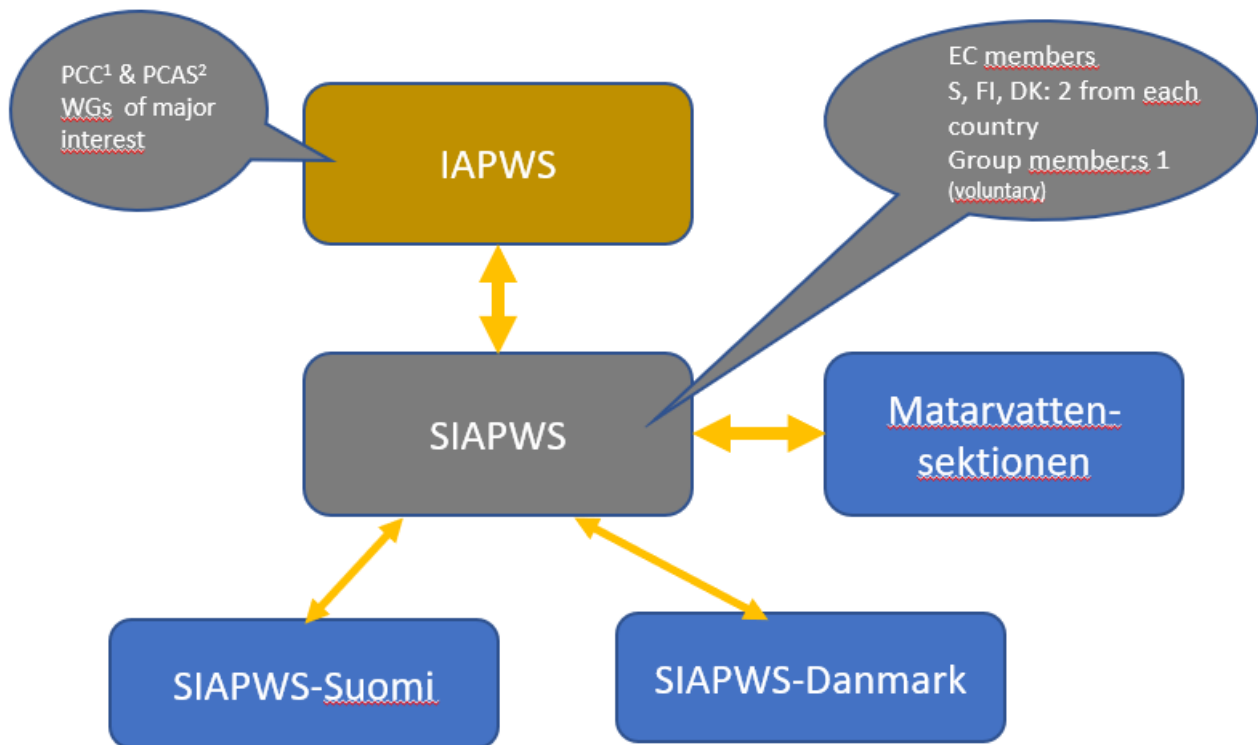




# SIAPWS Annual Report for 2019

The annual meeting of 2019 took place in Helsinki with more than 20 participants, primarily from Finland but also a few from Sweden and Denmark. The meeting consisted of the formal part with the agenda of the general meeting, a workshop focusing on quality of district heating water, membrane degassing of make-up water and initial ideas for an IAPWS TGD on treatment for flue gas condensate (FGC) for re-use or disposal. On the following day we visited a new plant for treatment and sorting of municipal waste in Vaantaa and saw the incinerator for the rest waste. The annual meeting was mainly organised by the Finnish members of the EC with help and sparring from the other members. The complete arrangement led toward a basic program for the coming annual meetings: The short general meeting combined with a larger workshop and perhaps a plant visit.

The year 2019 was largely used for consolidation of the new SIAPWS organisation with the Nordic association centrally placed between IAPWS and the national organisations:



1. PCC – Power Cycle Chemistry Working Group
2. PCAS – Physical Chemistry of Aqueous Systems Working Group

The advantages envisioned by the new organisation are summarised in the bullets here:

- Clear definition of tasks between SIAPWS and Matarvattensektionen, cooperation for the common benefit
- Maximum gain from Nordic and international cooperation
- Efficient networking and sharing of experience



- Access to the international network with the largest base of experience and knowledge through IAPWS
- Access to all information from IAPWS and SIAPWS for all members
- All members of national groups may take part in SIAPWS and/or IAPWS work
- The SIAPWS group is large enough to contribute and influence the work in IAPWS PCC
- Small, efficient administration

The Finnish association was established in 2018 and became fully operational during 2019 with an EC in place and arrangement of the Finnish general meeting and workshops. At the end of 2019, SIAPWS Suomi had 30 members, 6 of them being personal members and 24 company members. 3 members are representing power plants and the rest are different equipment or services suppliers.

The Danish association was initiated in 2018 with a meeting and workshop for interested parties and founded in the spring of 2019. It became operational shortly after and arranged a workshop during the fall also. At the end of 2019, SIAPWS Danmark had 23 company members of which 12 were power and/or heat suppliers and the rest consultants or service and instrument suppliers. There were 1 institution and 2 individuals as members also.

Clearly, the interest both in Finland and Denmark demonstrates that there is a need for this kind of information exchange, and formation of the national groups made it much accessible than taking part in the Nordic cooperation directly.

During the year, it has been increasingly clear that the work with the national groups takes effort from both the Nordic and the national EC members, and that the role and mode of operation of the Nordic organisation therefore must change. No electronic courses were offered through the year due to lack of EC resources to plan and coordinate them. These observations have led to the change of statutes proposed for the 2020 general meeting and a discussion of the future actions of the Nordic EC.

The IAPWS annual meeting was arranged by the Canadians and took place in Banff situated in the heart of Canadian Rocky Mountains – even from the conference room there was a splendid view of the Mountains and the Bow River Valley. SIAPWS was represented by four members from Finland (Arja), Sweden (Anders), and Denmark (Monika and Karsten). The working group PCC (Power Cycle Chemistry) backed up the proposal from SIAPWS of a TGD on FGC-treatment that was initiated at the 2019 annual meeting in Helsinki. SIAPWS members (Karsten) continued the work in the task group for a TGD on corrosion product sampling and analysis for flexible plants and got involved in a adaption of the instrumentation TGD to accommodate "smart alarms" (Jere Espoo).





1. View from the IAPWS meeting room used for most PCC workshops



2. The SIAPWS delegation at the IAPWS meeting in Banff. From the left Monika, Anders, Arja, and Karsten