

Sustainable approaches in the design of Water and Wastewater Treatment: Programme

Optional Site visit @ Power&Water 10:00-11:30

Power&Water is an award-winning UK based technology company pioneering the design and manufacture of Sono-electrochemical water treatment products and systems – Soneco®. Soneco is an innovative treatment process combining electrolysis and ultrasound to generate reactive treatment reagents and oxidative radicals, directly from electrode plates. P&W works directly with utilities, Mining, Process and Industrial companies, providing technical support for plant design, integration, operation and after-sales software and support to see demonstration of their technology. This is an opportunity to see their technology up close in the lab and see first-hand it in action.

Technical Event @ Swansea University, Bay Campus. 12:00 – 16:30 (lunch included)

This half day technical seminar/webinar will feature speakers from Dŵr Cymru Welsh Water Capital Delivery Alliance, and Power & Water to provide a broad range of theoretical knowledge and associated sustainable approaches used in the water industry to help achieve the UN Sustainability Development Goals.

This event is aimed at professionals and students interested in the design and processes related to water and wastewater treatment. The South Wales IChemE committee hope to leave you inspired from this informative seminar and to have an enjoyable half day which will not only enhance your CPD portfolio but also gaining valuable networking opportunities in this sector.

Agenda

12:00-13:15 – Lunch and networking

13:15-13:45 – Talk 1: **Generation of Hydrogen from Wastewater** - Richard Chamley, Arup

13:45-14:15 – Talk 2: **Nitrogen Emission** - Josh Williams and Keeley Ann Kerr, Dwr Cymru Welsh Water

14:15-14:45 – Talk 3: **Diversification of Biogas Valorisation in Wastewater Treatment** - Ian Hullin, Dwr Cymru Welsh Water

14:45-15:15 – Tea Break and networking

15:15-15:45 – Talk 4: **Electrochemical technology, Soneco®** - Siân Jones, Power&Water

15:45-16:15 – Talk 5: **Electrocoagulation P removal for NWG** - Cameron Langford, Mott MacDonald

16:15-16:30 – Additional Q&A, networking

16:30 Close