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11-14 MAR 2025
RAI AMSTERDAM

March 11th

12:00 – 13:45

Challenging water

In this session we focus on innovations and experiences to treat challenging wastewaters. Such wastewaters can be challenging because they have a high fouling potential, contain difficult to remove components such as persistent micropollutants or have unconventional pH or salinities.

Moderator: Xiao Zhang, Wetsus

- **Amanda Larasati**, Wetsus, Collaborative efforts between academia and industry in integrating PFAS treatment solutions
- **Diego Bleekx**, Waterleau, Cost-effective strategies for addressing PFAS in industrial Wastewater
- **Wouter van Gerwen** & **Michiel van der Meer**, Billfinger, Collaboration between contract parties within water projects in an era of transition
- **Jozef Kochan**, Clariant, Holistic approach for sustainable treatment of difficult wastewater streams

16:15 - 18:00

Salts and water

In this session we focus on approaches to reuse water in the (petro)chemical industry. Often salt removal and brine treatment is a challenging aspect that limits reuse and zero liquid discharge options.

Moderator: Liang-Shin Wang, Wetsus

- **Gerrald Bargeman**, Nobian, Technological developments for the purification and concentration of saline solutions

- **Christine Kleffner**, TH Köln, University of Applied Sciences, Project RIKovery – recycling of industrial saline waters through ion separation, concentration and intelligent monitoring
- **Stefan Schmidt**, SMS group, Being prepared for water shortage – a look around on water saving chances in steel industry
- **Kaustub Singh**, Friesland Campina, Challenges in separation of mineral-rich dairy streams

March 12th

11:15 – 13:00

Circular water use

Increasingly access to water is becoming problematic for a lot of industries. Therefore, water is more and more becoming a precondition for production. in this session we address examples how water reuse can help to create water security and might also lead to opportunities for resource and energy recovery.

Moderator: Alexander Finnegan, Wetsus

- **Marthe de Graaff**, Evides, Full scale application: from nitrogen rich wastewater to fertilizer
- **Kees Roest**, KWR, Closing nutrient cycles with domestic wastewater & agri-food process water
- **Wouter de Buck**, LeAF, Industrial effluent use in agriculture - lessons learnt and prospects
- **Joost Paques**, Paques Biomaterials, Producing PHA in a closed loop paper factory; turning industrial wastewater treatment from a cost center to a profit center

14:45 - 16:30

Safe water

For a lot of industries water is a very important resource that needs to be safe. Restricted access to clean water sources and increase of water reuse give bigger challenges to produce safe water that is free of pathogens and micro-pollutants.

Moderator: Pamela Moussa, Wetsus

- **Johan Ceulemans**, Vito, How Flemish brewers Saved 23 Million m^3 water: a fluid crew success story
- **Nikki Janssens**, Azulatis & **Stijn Vanherrewegen**, Puratos, Sustainable water reuse for producing bakery products
- **Søren Nøhr Bak**, NIRAS, Water recycling in the food & beverage/ingredients industry- chemical risk assessment
- **Diederik Schuurman**, Royal HaskoningDHV, Closing the loop: from paperwork to realization

March 13th

11:00 – 12:45

Water as a utility

Water is a crucial utility in many different industries and security in the supply of water is crucial. We discuss challenges in securing water sources and how this influences pretreatment and conditioning of the water to obtain the right quality.

Moderator: Mirvahid Mohammadpour Chehrghani, Wetsus

- **Jan Sipma**, North Water, Sustainable industrial water management in Delfzijl, Netherlands
- **Andrea Naves**, Eurecat, Advanced treatment schemes of petrochemical industrial wastewater for its reuse as cooling water
- **Hendrik Swart**, Redstack, Advancing industrial water reuse: sustainable solutions for salt removal
- **Sofie Van Ermen**, VITO and **Alexander de Ruijter**, Antea group, Pioneering feasibility study on circular water use in the port of Antwerp's chemical industry

15:00 - 16:30

Power of water

Water is an important carrier of latent heat and therefore plays an important role in the energy balance of a factory. Often also the organics or the salt load can be a source of energy. Through electrolysis we can even make powerful hydrogen to replace fossil energy sources.

Moderator: Ragne Pärnamäe, Wetsus

- **Hamed Rastegarian**, Royal HaskoningDHV, The role of water in green hydrogen: overcoming challenges and seizing opportunities
- **Burcu Ekmekci**, Fluor Corporation, Water - a raw material in the energy transition
- **Joseph Perryman**, Brineworks, Electrochemical direct ocean capture: sustainable CO_2 and green hydrogen for e-Fuel production
- **Natascha Schuttinga**, HYCC, Learning points on permit applications and alternative water streams to feed our production processes