

## Sunday 28<sup>th</sup> June 2026 (13:00-22:00)

**Location:** Haskoning—former Mining Faculty on the TU Delft Campus, Mijnbouwstraat 120

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| 13:00–      | Registration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 13:30–15:00 | <b>Workshops (parallel)</b> <ul style="list-style-type: none"> <li>• <i>Enabling Water Circularity and Management: Feasibility, Finance and Practice.</i> Mehak Puri and Arpita Amarnani (Centre for Excellence in Sustainable Development, Goa Institute of Management, India) <b>Room: Nickel</b></li> <li>• <i>Educating the Next Generation of Industrial Water Professionals — developing a dedicated industrial water curriculum.</i> Bram Ooms (Water Opleidingen), and Cazimir ten Brink (Shell) <b>Room: Auditorium</b></li> </ul>                                                                        |
| 15:00–15:30 | Coffee Break                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 15:30–19:00 | <b>Courses (parallel)</b> <ul style="list-style-type: none"> <li>• <i>Electrochemical and Hybrid Technologies for Wastewater Treatment and Resource Recovery</i> - Sanjeeb Mohapatra, Jules van Lier, David Vermaas, Ivan Buijnsters (TU Delft), Jouke Dykstra (WUR), Tuur van den Eijnde (Nijhuis), Jasper Schakel (CIWI). <b>Room: Auditorium</b></li> <li>• <i>Life Cycle Assessment as a Decision-Support Tool for Industrial Water and Wastewater Projects Using openLCA.</i> - Nooshin Barzegar Marvasti (University of Birmingham), and Aashlesha Chekkala (BITS Pilani-Goa) <b>Room: Nickel</b></li> </ul> |
| 19:00–22:00 | Welcome Reception<br><b>Room: Atrium West</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 19:30–19:45 | Welcome speech<br><u>Kala Vairavamoorthy</u> , Executive Director, International Water Association                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 19:45–22:00 | Drinks and Food (Networking)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Monday 29<sup>th</sup> June 2026 (08:00-17:30)

**Location:** Delft University of Technology (TU Delft) – Aula, Mekelweg 5, 2628 CC Delft

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| <b>Chairpersons:</b> Yongjun Zhang (Nanjing Tech University) & Henri Spanjers (TU Delft)<br><b>Room:</b> Auditorium |                                                                                                                                                                                                    |
| 08:00                                                                                                               | Registration                                                                                                                                                                                       |
| 09:00–09:30                                                                                                         | Welcome and Opening Session (plenary)                                                                                                                                                              |
| 09:30–10:00                                                                                                         | <b>Opening speech (plenary)</b><br><u>Geoff Townsend</u> , Water Europe Chair of the Water-Smart Industries Community of Practice. Water stress across Europe: challenges for the industry         |
| 10:00–10:45                                                                                                         | <b>Keynote 1 (plenary)</b><br>Keynote: <u>Christophe Lasseur</u> , European Space Agency, head of MELiSSA program — Mission to Mars, the ultimate example of a circular economy?                   |
| 10:45–11:15                                                                                                         | Break                                                                                                                                                                                              |
| 11:15–12:00                                                                                                         | <b>Keynote 2 (plenary)</b><br><u>Guido Janssen</u> , CEO Nyrstar and <u>Iris Janssen</u> , Haskoning DHV. Water challenges in industry at different corners of the world: challenges and solutions |
| 12:00–12:30                                                                                                         | Group Photo                                                                                                                                                                                        |

**Lunch (Workshop parallel): 12:30 - 14:00**

- Building the bridges — Comprehensive Water Stewardship Plan for Industrial Resilience in Water-Stressed Basins. Basja Jantowski (Haskoning, Global Water Strategy for Industry Lead), Lourens Meijer (Unilever, Global Water Stewardship Lead), Gerrit Westhoff (Royal FrieslandCampina, Global SHE & Sustainability Director ) and Arthur Gleijm (Rebel Group, Director)

**Room:** Commissiekamer 3

- Humber UK Case Study of the implications of no water available for Industry: How can we ensure growth in the sector whilst protecting the environment and ensuring enough water for people? Liz Cairns, Jenny Marshall-Reed, and Matt Woollin (Environment Agency, United Kingdom)

**Room:** Frans van Hasselt

- Data-Driven Water Stewardship: Certification as a Structured Pathway to Water Positivity. Shabnam Bassi, Akash Deep, and Moumita Ghosh (GRIHA Council, India)

**Room:** Collegezaal D

**Sessions 1 & 2 (Monday 29<sup>th</sup> June 2026, 14:00-15:30)**

| Industrial Effluent: Treatment                                    |                                                                                                                                                                                                                                                                                                                                  | Resource and Energy Recovery                                                 |                                                                                                                                                                                                                                                 |
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| <b>Chairpersons:</b> Ingrid Pinel (Lenntech) & Ran Shang (Veolia) |                                                                                                                                                                                                                                                                                                                                  | <b>Chairpersons:</b> Jan Appelman (Haskoning) & Sanjeeb Mohapatra (TU Delft) |                                                                                                                                                                                                                                                 |
| <b>Room:</b> Fans van Hasselt                                     |                                                                                                                                                                                                                                                                                                                                  | <b>Room:</b> Commissiekamer 3                                                |                                                                                                                                                                                                                                                 |
| 14:00-14:20                                                       | ID 115 – BODAC®; A sustainable biological regenerable activated carbon filter for biofouling control and micropollutant removal – Wilbert Menkveld, Nijhuis                                                                                                                                                                      | 14:00-14:20                                                                  | ID 134 – Boosting Biogas Production with a Non-Conventional AnSBR Treating Protein- and Lipid-Rich Wastewater: Pilot Evaluation – Julian Munoz Sierra, KWR Water Research Institute                                                             |
| 14:20-14:40                                                       | ID 69 – Chemical-Free Scaling Control as RO Pretreatment: Performance Gains Across Fresh, Brackish and Seawater Desalination – Chris Rose, Sidon Water Ltd.                                                                                                                                                                      | 14:20-14:40                                                                  | ID 174 – Recovering Ammonia and Organic Acids from Residual Streams via Bipolar Membrane Electrodialysis – Gladys Mutahi, TU Delft                                                                                                              |
| 14:40-15:00                                                       | ID 50 – Learnings from the pilot testing of innovative technologies for the removal of marine plastic litter – Harsha Mysore, BlueXPRT                                                                                                                                                                                           | 14:40-15:00                                                                  | ID 39 – Extraction of silica aerogel by acid-base reaction from coal gasification slag for lead adsorption – Bingyang Xun, Anhui University of Science and Technology                                                                           |
| 15:00-15:20                                                       | ID 36 – Leather Industry Wastewaters: Performance of Polymer-Based Hybrid Materials in Coagulation-Flocculation and Sludge Reduction – Begüm Uzluk, Boğaziçi University                                                                                                                                                          | 15:00-15:20                                                                  | ID 171 – Electrochemical Ammonia Recovery from Anaerobic Digestion Reject Water – Iosif Kaniadakis, TU Delft                                                                                                                                    |
| 15:20-15:25<br>(Pitch 1)                                          | ID 169 – Alkalized TripolyPhosphate Cross-linked Chitosan Beads Synthesized from Mushroom Waste ( <i>agaricus bisporus brunnescens</i> ) Were Developed as a Sustainable Biosorbent for the Batch Removal of Toxic Heavy Metals Cr (VI), Cu (ii), and Pb (ii) – Tesfalem Belay Tesfalem Belay, Bahir Dar Institute of Technology | 15:20-15:25<br>(Pitch 3)                                                     | ID 158 – Assessing the feasibility of reclaiming process water from industrial wastewater effluent by using Closed-Circuit Reverse Osmosis and evaluating options for treating the resulting brine – Tamarindo Metekohij, Evides Industriewater |
| 15:25-15:30<br>(Pitch 2)                                          | ID 73 – Determination of C0-C2 Alkylphenols in Stripped Water using UPLC-Q/Orbitrap HRMS – Yu-long Liu, CNPC Research Institute of Safety and Environment Technology                                                                                                                                                             | 15:25-15:30<br>(Pitch 4)                                                     | ID 31 – Enhancing the Regeneration Efficiency of Ion Exchange Resins with Ammonium Bicarbonate via CO <sub>2</sub> and Air Pressurisation – Kamran Jalali, Univeristy of New South Wales                                                        |

15:30-16:00 Coffee Break (Poster Presentation)

**Sessions 3 & 4 (Monday 29<sup>th</sup> June 2026, 16:00-17:25)**

| <b>Industrial Effluent: Biological Treatment</b><br><b>Chairpersons:</b> Julian Munoz Sierra (KWR) & Yeyuan Xiao (Shantou University)<br><b>Room:</b> Fans van Hasselt |                                                                                                                                                                                                                                       | <b>Resource and Energy Recovery (Cont.)</b><br><b>Chairpersons:</b> Matthias de Cazes (Yara International) & Jules van Lier (TU Delft)<br><b>Room:</b> Commissiekamer 3 |                                                                                                                                                                                                         |
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| 16:00-16:20                                                                                                                                                            | <b>ID 34</b> – <i>Anaerobic Treatment of Waste(water) from the Chemical Industry</i> – Meenakshi Prasad, Covestro Deutschland AG                                                                                                      | 16:00-16:20                                                                                                                                                             | <b>ID 30</b> – <i>From nitrogen-rich process condensates to fertilizer</i> – Arjen Kok, Evides Industriewater                                                                                           |
| 16:20-16:40                                                                                                                                                            | <b>ID 92</b> – <i>Full-Scale Application of Anaerobic Sequential Batch Reactor for Efficient Treatment of High-Fat Ice Cream Wastewater</i> – Ran Shang, Veolia Water Tech                                                            | 16:20-16:40                                                                                                                                                             | <b>ID 72</b> – <i>Ammonium removal and recovery from industrial digestates</i> – Tjark Holst, Lenntech B.V.                                                                                             |
| 16:40-17:00                                                                                                                                                            | <b>ID 132</b> – <i>Phosphorus Control at Wastewater Treatment Works by Enhanced Adsorption with Water Works Sludge</i> – Fika Nikendary, PT Pertamina Energy Terminal, University of Leeds                                            | 16:40-17:00                                                                                                                                                             | <b>ID 117</b> – <i>Towards Chemical-Free Nitrogen Recovery: Advancing Resource-Recovery Oriented Wastewater Treatment</i> – Ian Tomassen, Nijhuis                                                       |
| 17:00-17:20                                                                                                                                                            | <b>ID 166</b> – <i>Compost or Digest? A Life Cycle and Net Present Value Comparison for Managing MBBR Sludge at a Mexican University Campus</i> – Mexitli Sandoval-Reyes, Instituto Tecnológico y de Estudios Superiores de Monterrey | 17:00-17:20                                                                                                                                                             | <b>C1.</b> <i>Potable Water from Industrial Effluent in the Food Industry - Operational experience with Closing the Waterloop</i> – Wilbert Menkveld, Nijhuis                                           |
| 17:20-17:25<br>(Pitch 5)                                                                                                                                               | <b>ID 7</b> – <i>Phytomigration of Residual Heavy Metals from Technogenically Contaminated Treated Waters (Bolnisi, Georgia)</i> – Konstantine Khachapuridze, Technical University of Georgia                                         | 17:20-17:25<br>(Pitch 6)                                                                                                                                                | <b>ID 157</b> – <i>Human-in-the-loop reinforcement learning for safe economic operation of membrane bioreactor processes in wastewater treatment</i> – Thu Minh Hoang, Nanyang Technological University |

## Tuesday 30<sup>th</sup> June 2026 (09:00-18:30)

**Location:** Delft University of Technology (TU Delft) – Aula, Mekelweg 5, 2628 CC Delft

**Session 5 (Tuesday 30th June 2026, 09:00-10:30)**

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| <b>Industrial Effluent: Reuse</b><br><b>Chairpersons:</b> Thomas Track (Dechema e.V.) & Roy van Lier (Yara Sluiskil)<br><b>Room:</b> Auditorium |                                                                                                                                                                                                              |
| 09:00-09:30                                                                                                                                     | <b>Keynote:</b> <u>Kees van der Voort Maarschalk</u> , Science Director at Royal Avebe.<br>Dealing with water scarcity, it is not necessarily water re-use: An industry perspective                          |
| 09:30-09:50                                                                                                                                     | <b>ID 45</b> – <i>Evaluation of advanced treatment trains for agri-food wastewater reuse across different food sectors</i> – Isabella Muñoz, University of Vic - Central University of Catalonia             |
| 09:50-10:10                                                                                                                                     | <b>ID 96</b> – <i>Industrial Wastewater Reclamation in Cosmetics Industry</i> – Rosario Gomes, Lenntech BV                                                                                                   |
| 10:10-10:30                                                                                                                                     | <b>ID 37</b> – <i>Optimizing Water Sourcing Strategies for Large-Scale Hydrogen Production: Balancing Cost, Reliability, and Environmental Impact</i> – Elizabeth Carlisle, Wageningen University & Research |

**10:30-11:00** Coffee Break (Poster Presentation)

**Sessions 6 & 7 (Tuesday 30<sup>th</sup> June 2026, 11:00-12:30)**

|                                                                                                                                                                                                   |                                                                                                                                                                                                               |                                                                                                                                                                    |                                                                                                                                                                                                                   |
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| <b>Industrial Effluent: Reuse (Cont.)</b><br><b>Chairpersons:</b> Begüm Tanis (TU Delft) & Isabella Muñoz (University of Vic - Central University of Catalonia)<br><b>Room:</b> Frans van Hasselt |                                                                                                                                                                                                               | <b>Company Case Presentations</b><br><b>Chairpersons:</b> Moumita Ghosh (GRIHA Council) & Yongjun Zhang (Nanjing Tech University)<br><b>Room:</b> Commissiekamer 3 |                                                                                                                                                                                                                   |
| 11:00-11:20                                                                                                                                                                                       | <b>ID 86</b> – <i>From wastewater to process water: a novel reutilization system of stripped water</i> – Zixian Wang, CNPC Research Institute of Safety and Environment Technology                            | 11:00-11:15                                                                                                                                                        | <b>C2.</b> <i>Waterbank Agriport: A Large-Scale Rainwater Storage and Reuse System for industry and horticulture – Releasing pressure on the drinking water supply.</i> – Toon Boonekamp, Sweco, representing ECW |
| 11:20-11:40                                                                                                                                                                                       | <b>ID 106</b> – <i>Integrated MBR-RO process for water recycling at a multi-user manufacturing site in Ho Chi Minh City at demonstration-scale</i> – Norman Schweimanns, Technische Universität Berlin        | 11:15-11:30                                                                                                                                                        | <b>C3.</b> <i>Industrial Brine Treatment by Crystallization-Optimized Membrane Distillation: From Concept to Application Cases</i> – Norbert Kuipers, Wageningen University                                       |
| 11:40-12:00                                                                                                                                                                                       | <b>ID 93</b> – <i>Treatment and Reuse of Piggery Effluent: Integrating Solar &amp; Recycled Combustion Gases in a Bubble Column Evaporator</i> – Adrian Garrido Sanchis, University of New South Wales (UNSW) | 11:30-11:45                                                                                                                                                        | <b>C4.</b> <i>Demineralization Unit Performance Troubleshooting</i> – Utku K Karani, OQBI                                                                                                                         |
|                                                                                                                                                                                                   |                                                                                                                                                                                                               | 11:45-12:00                                                                                                                                                        | <b>C5.</b> <i>Water Management at Linde Gas: Globally addressing water stress to ensure plant reliability</i> – David Miklos, Linde GmbH                                                                          |
| 12:00-12:20                                                                                                                                                                                       | <b>ID 123</b> – <i>Water reclamation for industrial use potential for Maputo</i> – Noor Jehan Gulamussen, duardo Mondlane University                                                                          | 12:00-12:15                                                                                                                                                        | <b>C6.</b> <i>Reducing Industrial Water Intake Through Utility-Industry Collaboration.</i> – Nienke Peek, Vitens                                                                                                  |
|                                                                                                                                                                                                   |                                                                                                                                                                                                               | 12:15-12:30                                                                                                                                                        | <b>C7.</b> <i>Every threat to the status quo is an opportunity in disguise: Water reduction as a business case at BASF.</i> – Mark Lazonder, BASF                                                                 |

**Lunch (Workshop parallel): 12:30 - 14:00**

- Water Efficiency in the Industry: Practical Pathways to Circular Industrial Water Use (Johann Poinapen-KWR, Julian Munoz-KWR, Ivaylo Hitsov-University Ghent) **Room:** Commissiekamer 3
- Building the Business Case for Circular Industrial Water Management Investments at Site Level. (Cejna Anna Quist-Jensen, Thomas Track, Ken Stockil Colm Gaskin, Aisling O'Connor, Christoph Höfer, Andres Lucht (Denmark, Germany, Ireland, Austria) **Room:** Frans van Hasselt



**Sessions 8 & 9 (Tuesday 30<sup>th</sup> June 2026, 14:00-15:30)**

| Advanced Oxidation-based Treatment Techniques                                                                      |                                                                                                                                                 | Membrane-based Resource Recovery                                                                                   |                                                                                                                                                                                                                                 |
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| <b>Chairpersons:</b> Izba Ali (Air Liquide) & Anlin Xu (Nanjing Tech University);<br><b>Room:</b> Commissiekamer 3 |                                                                                                                                                 | <b>Chairpersons:</b> Stylianos Flambouris (Lenntech) & Niels van Linden (Lenntech); <b>Room:</b> Frans van Hasselt |                                                                                                                                                                                                                                 |
| 14:00-14:20                                                                                                        | ID 40 – <i>AnMBRs Coupled with Advanced Oxidation for Removal of Antibiotics and Membrane Fouling Control</i> – Yeyuan Xiao, Shantou University | 14:00-14:20                                                                                                        | ID 18 – <i>High-Performance Nanofiltration Membranes for Lithium Extraction from Water via Positively Charged Silica Nanoparticle Modification</i> – Amir Aghaei, University of Alberta, National Research Council Canada (NRC) |
| 14:20-14:40                                                                                                        | ID 47 – <i>Catalytic ozonation with high-entropy oxides for water treatment</i> – Anlin Xu, Nanjing Tech University                             | 14:20-14:40                                                                                                        | ID 59 – <i>Water and resource recovery from industrial effluents using oscillatory flow-enhanced membrane distillation (OMD)</i> – Christoph Hofer, AEE INTEC                                                                   |
| 14:40-15:00                                                                                                        | ID 83: <i>A Life Cycle Analysis of Bismuth Vanadate During Solar Photocatalysis</i> – Sanjeeb Mohapatra, TU Delft                               | 14:40-15:00                                                                                                        | ID 80 – <i>Development and characterization of ultrafiltration membranes made with residual polymers: Phase inversion method application</i> – Paola Andrea Alvizuri Tintaya, Universidad Católica Boliviana San Pablo          |
| 15:00-15:20                                                                                                        | ID 98 – <i>1,4-Dioxane treatment in industrial wastewater using ozone-based advanced oxidation</i> – Charlotte Bopp, Veolia Water Tech          | 15:00-15:20                                                                                                        | ID 46: <i>Efficiency of Ultrafiltration and Nanofiltration in Removing Pharmaceuticals from Water</i> – Andrea Bernardes, Federal University of Rio Grande do Sul                                                               |
| 15:20-15:25<br>(Pitch 7)                                                                                           | ID 161: <i>Ultra Short Chain (USC) PFAS Removal from Process Water at Chemours Netherlands</i> –Henk Walpot, Chemours                           | 15:20-15:25<br>(Pitch 8)                                                                                           | ID 108: <i>Optimized Energy for Water Production (Desalination) and Transmission in Hilly Terrains with Moderate Solar Flux</i> – Selvakumar Rajendran, IWA                                                                     |

15:30-16:00 Coffee Break (Poster Presentation)

**Sessions 10 & 11 (Tuesday 30<sup>th</sup> June 2026, 16:00-17:30)**

| <b>Materials for Industrial Water Treatment</b>                                           |                                                                                                                                                                                                                      | <b>Membrane-based Resource Recovery (Cont.)</b>                                                                                |                                                                                                                                                                                                                       |
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| <b>Chairpersons:</b> Rebecca Dhawle (Nijhuis Saur Industries) & Merle de Kreuk (TU Delft) |                                                                                                                                                                                                                      | <b>Chairpersons:</b> Norbert Kuipers (Wageningen University & Research) & Mohammad Karimi (Amirkabir University of Technology) |                                                                                                                                                                                                                       |
| <b>Room:</b> Commissiekamer 3                                                             |                                                                                                                                                                                                                      | <b>Room:</b> Frans van Hasselt                                                                                                 |                                                                                                                                                                                                                       |
| 16:00-16:20                                                                               | ID 127 – Biochar-regulated MnO <sub>2</sub> for catalytic ozonation of benzotriazole: performance, mechanism and practical application – Siyan Fan, Technische Universität Berlin                                    | 16:00-16:20                                                                                                                    | ID 99 – Recovery of valuable salt under supersaturated conditions with Nanofiltration: From lab bench to full-scale– Stylianos Flambouris, Lenntech BV                                                                |
| 16:20-16:40                                                                               | ID 112 - Bridged Polysilsesquioxane-Magnetite Adsorbents with Tunable Amino/Thiol Interfaces for Multicontaminant Water Treatment - Inna Melnyk, Institute of Geotechnics SAS                                        | 16:20-16:40                                                                                                                    | ID 129 – Recovery of Hyper Saline Wastewater using Hybrid Forward Osmosis – Membrane Distillation (FO-MD) – Veerabhadraiah Gudideni, Aramco                                                                           |
| 16:40-17:00                                                                               | ID 168 – Efficient Removal of Emerging Contaminants from Water using Sustainable Bio-Aerogel Materials for Circular Economy – Soumi Dutta, IISC Bangalore                                                            | 16:40-17:00                                                                                                                    | ID 61 – Advanced water recovery from groundwater NF concentrate – Ingrid Pinel, Lenntech                                                                                                                              |
| 17:00-17:20                                                                               | ID 170 – Start-up and operation of a sulfidogenic reactor seeded with methanogenic sludge using the COD/SO <sub>4</sub> <sup>2-</sup> ratio and free H <sub>2</sub> S as control parameters – Xingzhou Lyu, TU Delft | 17:00-17:20                                                                                                                    | ID 126 – BiOI–ZnO Heterojunctions Integrated PES Ultrafiltration Membranes for Photocatalytic Degradation and Separation of Contaminants of Emerging Concern – Akshay Kulkarni, Leibniz Institute of Polymer Research |
| 17:20-17:25<br>(Pitch 9)                                                                  | ID 24: Transforming microplastic waste from water to syngas – Mohammed B. Al Rayaen, Aramco                                                                                                                          | 17:20-17:25<br>(Pitch 11)                                                                                                      | ID 52: Development of a Membrane-Based Treatment Train for Water and Solute Recovery in a Bio-Based Industrial Stream – Sara Salvador Cob, VITO                                                                       |
| 17:25-17:30<br>(Pitch 10)                                                                 | ID 124: Source-Dependent Functionalization of Silica with Pectin for Heavy Metal Removal from Industrial Wastewater – Viktoriia Kyshkarova, Institute of Geotechnics of the Slovak Academy of Sciences               | 17:25-17:30<br>(Pitch 12)                                                                                                      | ID 56: Membrane Distillation for Reverse Osmosis Brine Management- Marco Rodrigues, Feevale University                                                                                                                |

**17:45–18:30 Open meeting of the IWA Specialist Group “Treatment of Industrial Waters”**
**Room:** Frans van Hasselt

## Wednesday 1<sup>st</sup> July 2026 (09:00-17:30)

Location: Delft University of Technology (TU Delft) – Aula, Mekelweg 5, 2628 CC Delft

### Sessions 12 (Wednesday 1st July 2026, 09:00-10:30)

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| <b>Industrial Water-Saving Strategies</b><br><b>Chairpersons:</b> Goksen Capar (Ankara University) & Sara Salvador Cob (VITO)<br><b>Room:</b> Frans van Hasselt |                                                                                                                                                                                               | <b>Industrial Water Forum by Isle Group</b><br><br><b>Room:</b> Commissiekamer 3 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 09:00-09:20                                                                                                                                                     | ID 103 – <i>Water and Wastewater Streams and Reuse Opportunities in TOPCon Solar Cell Production – Jascha Reich, Technische Universität Berlin</i>                                            | 09:00-09:05                                                                      | <b>Welcome and Opening Remarks</b> Ioanna Livaniou, Managing Director – Europe, Isle Group                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 09:20-09:40                                                                                                                                                     | ID 120 – <i>Recent advances in Industrial Water Reuse: Technological outcomes of pulp and paper end-of-pipe wastewater reuse and brine management – Sem Schrijer, Nijhuis Saur Industries</i> | 09:05-09:50                                                                      | <b>Reduce, Reuse, Recycle, Reclaim —</b> Closing the Industrial Water Loop <b>Speakers:</b> <ul style="list-style-type: none"> <li>- Heleen Nieuwenhuis, Director of Marketing, Total Water Management, Nalco Water-Ecolab</li> <li>- Dimitra Papagiannaki, Process Engineer, Evides Industriewater</li> <li>- Martin Pelle, Global WWTP Global Technology, Tate &amp; Lyle (TBC)</li> <li>- Paul Jacob, Senior Water Innovation Manager, Danone</li> </ul> <b>Moderator:</b> Sara Shehi, Technology Consultant, Isle Group |
| 09:40-09:55                                                                                                                                                     | C8. <i>From Linear to Circular: The development and application of a Water Efficiency Framework at Dow production locations – Johann Poinapen, KWR Water Research Institute</i>               |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 09:55-10:10                                                                                                                                                     | C9. <i>Reuse of Garmerwolde municipal effluent for industrial processes. – Hannah van der Wal, WLN</i>                                                                                        | 09:50-10:30                                                                      | <b>Optimising Industrial Water Systems —</b> Efficiency opportunities in cooling towers, boilers and site water circuits<br><br><b>Speakers</b> <ul style="list-style-type: none"> <li>- Aurélie Grelot, Global Water Treatment Lead, Cargill</li> <li>- Paul Jacob, Senior Water Innovation Manager, Danone</li> <li>- Tommaso Marengo, Environment Manager, Ferrero</li> </ul> <b>Moderator:</b> Magela Odriozola, Principal Consultant, Isle Group                                                                       |
| 10:10-10:25                                                                                                                                                     | C10. <i>Salt Removal / Reducing Industrial Water Intake – Rosan van Wyngaard, Proxa Water South Africa</i>                                                                                    |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 10:25-10:30<br>(Pitch 13)                                                                                                                                       | ID 118: <i>Achieving Water Positivity Through Metered Water consumptions and CSR-Led Replenishment Across Multi-Sector Sites in India – Moumita Ghosh, GRIHA Council</i>                      |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

10:30-11:00 Coffee Break (Poster Presentations)

**Sessions 13 (Wednesday 1st July 2026, 11:00-12:30)**

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| <b>Electrochemical Treatment Techniques</b><br><b>Chairpersons:</b> Andréa Moura Bernardes (Federal University of Rio Grande do Sul) & Sovik Das (IIT Delhi)<br><b>Room:</b> Frans van Hasselt |                                                                                                                                                                                                                           | <b>Industrial Water Forum by Isle Group (Cont.)</b><br><b>Room:</b> Commissiekamer 3 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 11:00-11:20                                                                                                                                                                                    | <b>ID 43</b> – <i>Integrated Adsorption–Electrochemical Oxidation for Enhanced Pharmaceutical Wastewater Treatment</i> – Orlando Garcia-Rodriguez, NUS Environmental Research Institute, National University of Singapore | 11:00-11:35                                                                          | <b>From Pilot to Practice — Industry Case Studies in Water Innovation</b><br><b>Case Study Presenters</b> <ul style="list-style-type: none"> <li>- <i>From Regulatory Challenge to Business Case: Wastewater Solutions in Specialty Chemicals</i>, Jozef Kochan, Clariant</li> <li>- <i>Recycling wastewater in Spanish refinery – from feasibility to reality</i>, Anne Saramito, Senior Group Leader RD&amp;E Industrial Water EU, Ecolab</li> <li>- Georg Stockinger, Senior Water Treatment &amp; Integration Technologist, Shell</li> </ul> <b>Moderator:</b> Ioanna Livaniou, Managing Director – Europe, Isle Group |
| 11:20-11:40                                                                                                                                                                                    | <b>ID 57</b> – <i>Towards Safe Discharge: Electrochemical Degradation of Antibiotics in Concentrated Aquaculture Effluents</i> – Salatiel da Silva, NESA, PPG-IPH, Federal University of Rio Grande do Sul                |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 11:40-12:00                                                                                                                                                                                    | <b>ID 104</b> – <i>PFAS occurrence and removal in semiconductor wastewater using electrochemical oxidation</i> – Tom Ducrocq, ICRA                                                                                        | 11:35-12:20                                                                          | <b>Making Technology Work in the Real World — Water Conditioning and Wastewater Treatment at Scale</b><br><b>Speakers</b> <ul style="list-style-type: none"> <li>- Jozef Kochan, Manager Environmental Technologies, Clariant</li> <li>- Georg Stockinger, Senior Water Treatment &amp; Integration Technologist, Shell</li> <li>- Iván Blanco, Senior Researcher Water Solutions, ArcelorMittal Global R&amp;D Spain</li> </ul> <b>Moderator:</b> Eva Martínez, Associate Director, Isle Group                                                                                                                            |
| 12:00-12:20                                                                                                                                                                                    | <b>ID 49</b> – <i>Bridging the gap from lab to implementation – a decade of applied research in electrochemical oxidation of real industrial wastewater</i> – Olivier Lefebvre, National University of Singapore          |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 12:20-12:25<br>(Pitch 14)                                                                                                                                                                      | <b>ID 35:</b> <i>Maximizing Petrochemical Wastewater Reuse Through Hybrid Membrane and Electro-Oxidation Technologies</i> - Marco Antônio Rodrigues, Feevale University                                                   | 12:20-12:30                                                                          | <b>Wrap-Up &amp; Conclusions</b> <ul style="list-style-type: none"> <li>• Key takeaways and Closing remarks</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

12:30–14:00 Lunch Break

**Sessions 14 and 15 (Wednesday 1<sup>st</sup> July 2026, 14:00-15:30)**

|                                                                                                                                                                                     |                                                                                                                                                                                |                                                                                                                                                                                                                  |                                                                                                                                                                                                                                       |
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| <b>Water policies and industrial symbiosis</b><br><b>Chairpersons:</b> Hans Cappon (HZ University of Applied Sciences) & Eva IJzermans (Haskoning)<br><b>Room:</b> Commissiekamer 3 |                                                                                                                                                                                | <b>Electrochemical-based Valorization</b><br><b>Chairpersons:</b> Olivier Lefebvre (NUS) & Mexitli Sandoval-Reyes, Instituto Tecnológico y de Estudios Superiores de Monterrey<br><b>Room:</b> Frans van Hasselt |                                                                                                                                                                                                                                       |
| 14:00-14:20                                                                                                                                                                         | <b>ID 23</b> – <i>A novel framework for water reclamation in the petrochemical industry</i> – Tamara Elizabeth Leon Oviedo, Cetaqua, Water Technology Center                   | 14:00-14:20                                                                                                                                                                                                      | <b>ID 10</b> – <i>Coupling Granular Ferric Hydroxide and 3D Cathode for Enhanced Electrochemical Water Softening and Antiscalant Recovery</i> – Jiayu Luo, Southern University of Science and Technology                              |
| 14:20-14:40                                                                                                                                                                         | <b>ID 33</b> – <i>A Strategic Framework For Membrane-Based Water Recovery in the Textile Industry</i> – Mohammad Karimi, Amirkabir University and Technology                   | 14:20-14:40                                                                                                                                                                                                      | <b>ID 85</b> – <i>Selective Nitrate Recovery from Chloride-Rich Wastewater via Ion Exchange and Bipolar Membrane Electrodialysis</i> – Mojtaba Torkaman, Fraunhofer Institute for Environmental, Safety and Energy Technology UMSICHT |
| 14:40-15:00                                                                                                                                                                         | <b>ID 138</b> – <i>Water Efficiency Framework developed as part of the project AQUASPACE</i> – Johann Poinapen, KWR Water Research Institute                                   | 14:40-15:00                                                                                                                                                                                                      | <b>ID 109</b> – <i>SmartBrine: Feasibility of SWRO brine valorization in northeastern Brazil</i> – Marcos Bruno Colombo, NHL Stenden University of Applied Sc.                                                                        |
| 15:00-15:20                                                                                                                                                                         | <b>ID 114</b> – <i>Water Efficiency Evaluation in a Rapidly Expanding Organized Industrial Zone in Türkiye</i> – Goksen Capar, Ankara University                               | 15:00-15:20                                                                                                                                                                                                      | <b>ID 172</b> – <i>(Bio)Electrochemical Solutions for Environmental Sustainability: Water Remediation, Biohydrogen Production and Resource Recovery</i> – Sovik Das, IIT Delhi                                                        |
| 15:20-15:25<br>(Pitch 15)                                                                                                                                                           | <b>ID 74:</b> <i>Enabling Circular Water Transitions: Integrating AI-driven Governance, Feasibility, and Stakeholder Adoption</i> – Mehak Puri, Goa Institute of Management    | 15:20-15:25<br>(Pitch 17)                                                                                                                                                                                        | <b>ID 81:</b> <i>Electrocoagulation Treatment of Mature Landfill Leachate: Performance Evaluation and Energy Reduction via Pulsed Current</i> – Inga Urniežaitė, Kaunas University of Technology                                      |
| 15:25-15:30<br>(Pitch 16)                                                                                                                                                           | <b>ID 68:</b> <i>Analysis, Comparison and Review of Water Policies for Governance and Management in Sub-Saharan Africa</i> – Joseph Igbiniedion, ELTE Eötvös Loránd University | 15:25-15:30<br>(Pitch 18)                                                                                                                                                                                        | <b>ID 28:</b> <i>Electrochemical Recovery of Alkalis from Ultrapure Water Resin Regeneration Wastewater Using Selective Ion-Exchange Membranes</i> – Sin-Yi Huang, Industrial Technology Research Institute                           |

15:30-16:00 Coffee Break (Poster Presentations)

**Young Water Professionals (Plenary) (Wednesday 1<sup>st</sup> July 2026): 16:00-17:30**

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| <b>Chairpersons:</b> Begüm Tanis & Sanne Smith<br><b>Room:</b> Auditorium |                                                                                                                                                                                                                                                       |
| <b>16:00–16:15</b>                                                        | Introduction by the director of the local water authority                                                                                                                                                                                             |
| <b>16:15–17:30</b>                                                        | Panel discussion with young water professionals: Water for industry, industry for the future<br>Ruizhe Pei – University of Vienna<br>Hanneke Spijkerboer – Aviko<br>Pooja Halvawala – Lenntech Water Treatment Solutions<br>Eva IJzermans - Haskoning |
| <b>17:30–</b>                                                             | Drinks & pub quiz<br><b>Room:</b> Frans van Hasselt                                                                                                                                                                                                   |

**18:00–19:30 Management Committee meeting of the IWA Specialist Group “Treatment of Industrial Waters”** (by invitation only)

**Room:** Commissiekamer 4

## Thursday 2<sup>nd</sup> July 2026 (09:00-17:30)

Location: Delft University of Technology (TU Delft) – Aula, Mekelweg 5, 2628 CC Delft

### Sessions 16 & 17 (Thursday 2nd July 2026, 09:00-10:30)

|                                                                                                                                                                               |                                                                                                                                                                                                                                                    |                                                                                                                                                |                                                                                                                                                                                            |
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| <b>Digitalization and Smart Control</b><br><b>Chairpersons:</b> Paul Schausberger (UNIHA Wassertechnologie GmbH) & Henri Spanjers (TU Delft)<br><b>Room:</b> Commissiekamer 3 |                                                                                                                                                                                                                                                    | <b>Industrial Water Pollutants: PFAS</b><br><b>Chairpersons:</b> Tom Ducroqc (ICRA) & Sanne Smith (TU Delft)<br><b>Room:</b> Frans van Hasselt |                                                                                                                                                                                            |
| 09:00-09:20                                                                                                                                                                   | <b>ID 32</b> – Data-driven reinforcement learning for multi-stream wastewater pH control in pulp and paper industry – Muhammad Momotazul Islam, Fraunhofer Institute for Ceramic Technologies and Systems IKTS                                     | 09:00-09:20                                                                                                                                    | <b>ID 22</b> – Integrated Nanofiltration and Regenerable Ion Exchange for PFAS Removal in the Industrial Laundry Sector supporting water reuse – Dores Cirne, VITO NV                      |
| 09:20-09:40                                                                                                                                                                   | <b>ID 131:</b> Automated non-destructive, in-situ monitoring of (bio) fouling layers - Embodying Optical Coherence Tomography on a portal robot – Arthur Leon, Chair of Process Engineering in Hydro Systems, Inst, Technische Universität Dresden | 09:20-09:40                                                                                                                                    | <b>ID 42</b> – Integrating Foam Fractionation into the Activated Sludge Process for PFAS Removal from Landfill Leachate – Joséphine van Ruiten, TU Delft                                   |
| 09:40-10:00                                                                                                                                                                   | <b>ID 75</b> – The All-in-one AI and ML N <sub>2</sub> O solution for low-carbon wastewater treatment – Dhavissen Narayen, Cobalt Water Global                                                                                                     | 09:40-10:00                                                                                                                                    | <b>ID 107:</b> Electrochemical Oxidation of PFAS using Boron-doped Graphene-coated Ti/RuO <sub>2</sub> Anode – Niketha Narayana Rao, IIT Madras                                            |
| 10:00-10:20                                                                                                                                                                   | <b>ID 94</b> – Model predictive control for optimum condensate reuse – Iarima Mendonça, HZ University of Applied Sciences                                                                                                                          | 10:00-10:20                                                                                                                                    | <b>ID 116</b> – Enhancing PFAS Removal Through Vacuum Airlift Foam Fractionation: Lab-Scale Optimization for Industrial Deployment – Rebecca Dhawle, Nijhuis Industries                    |
| 10:20-10:25<br>(Pitch 19)                                                                                                                                                     | <b>ID 64:</b> Sustainable operation of semi-batch reverse osmosis for industrial effluent treatment using artificial intelligence – Jungbin Kim, Wenzhou-Kean University                                                                           | 10:20-10:25<br>(Pitch 21)                                                                                                                      | <b>ID 135:</b> Optimizing Foam Fractionation as a Key Concentration Technology for PFAS Removal - Julian Muñoz Sierra, KWR Water Research Institute                                        |
| 10:25-10:30<br>(Pitch 20)                                                                                                                                                     | <b>ID 156:</b> Data-enabled predictive control for membrane-based wastewater treatment processes – Xunyuan Yin, Nanyang Technological University                                                                                                   | 10:25-10:30<br>(Pitch 22)                                                                                                                      | <b>ID 164:</b> Sustainable Adsorptive Removal of PFAS Using Waste-Derived Activated Carbons: Role of Surface Chemistry and Pore Structure – Intae Shim, University of Science & Technology |

10:30-11:00 Coffee Break (Poster Presentation)

**Sessions 18 & 19 (Thursday 2<sup>nd</sup> July 2026, 11:00-12:35)**

|                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                       |                                                                                                                                          |                                                                                                                                                                                                   |
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| <b>Digitalization and Smart Control (Cont.)</b><br><b>Chairpersons:</b> Iarima Mendonça (HZ University of Applied Sciences) & Mehak Puri (Goa Institute of Management)<br><b>Room:</b> Commissiekamer 3 |                                                                                                                                                                                                                                                                       | <b>Industrial Water Pollutants</b><br><b>Chairpersons:</b> Dores Cirne (VITO) & Charlotte Bop (Veolia)<br><b>Room:</b> Frans van Hasselt |                                                                                                                                                                                                   |
| 11:00-11:20                                                                                                                                                                                             | <b>ID 26</b> – <i>Process Simulation for the Selection of Complex Industrial Water Treatment Processes</i> – Paul Schausberger, UNIHA Wassertechnologie GmbH                                                                                                          | 11:00-11:20                                                                                                                              | <b>ID 38</b> – <i>Removal of Trace Organic Pollutants from Industrial Effluents with A Pilot-scale Biofilter Enhanced by Manganese Oxidizing Bacteria</i> – Yunhai Zhang, Nanjing Tech University |
| 11:20-11:40                                                                                                                                                                                             | <b>ID 153</b> – <i>Economic real-time operation of membrane bioreactors in wastewater treatment via constrained economic model predictive control with Koopman modeling and meta learning</i> – Adrian Wing-Keung Law, National University of Singapore               | 11:20-11:40                                                                                                                              | <b>ID 111</b> – <i>Reactor-Scale and Local Transport Phenomena in Fungal Trickle-Bed Bioremediation</i> – Tazio Siegmann, ULB                                                                     |
| 11:40-12:00                                                                                                                                                                                             | <b>ID 173</b> – <i>Water Footprint Assessment and Setting Water Efficiency Strategies in the Refractory Industry</i> – Goksen Capar, Ankara University                                                                                                                | 11:40-12:00                                                                                                                              | <b>ID 110</b> – <i>Integrated Wastewater Remediation and Antibiotic Detection Using Silica Hybrid Adsorbents</i> – Olga Semeshko, Slovak Academy of Sciences                                      |
| 12:00-12:20                                                                                                                                                                                             | <b>ID 88</b> - <i>Hybrid Transformer-driven autonomous soft-sensing system for N<sub>2</sub>O emissions in a full-scale wastewater treatment plant: Sensor fault reconstruction, quantification, and self-recalibration</i> - SeonJu Kim, Kangwon National University | 12:00-12:20                                                                                                                              | <b>ID 121</b> – <i>Industrial Fluorinated Liquid Crystal Monomers in E-Waste-Impacted Rivers and their Environmental Interactions</i> – Rui Yang, Tsinghua Shenzhen International Graduate School |

12:20–14:00 Lunch Break



**Session 20 & 21 (Thursday 2<sup>nd</sup> July 2026, 14:00-15:20)**

| Industrial Effluent: Treatment (Cont.)                                                                   |                                                                                                                                                                                           | Life-Cycle Assessment                                                                               |                                                                                                                                                                                                                                                       |
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| <b>Chairpersons:</b> Sven Uwe Geissen (Technical University Berlin) & David Moed (Evides Industriewater) |                                                                                                                                                                                           | <b>Chairpersons:</b> Rosan van Wyngaard (Proxa Water South Africa) & Mar Palmeros Parada (TU Delft) |                                                                                                                                                                                                                                                       |
| <b>Room:</b> Frans van Hasselt                                                                           |                                                                                                                                                                                           | <b>Room:</b> Commissiekamer 3                                                                       |                                                                                                                                                                                                                                                       |
| 14:00-14:20                                                                                              | ID 21 - <i>Natural wetlands for water treatment in Yara</i> – Matthias de Cazes, Yara International                                                                                       | 14:00-14:20                                                                                         | ID 8 – <i>Exploring Tail Gas as an Alternative Water Source in Carbon Black Manufacturing through Process Simulation and LCA</i> – Aashlesha Chekkala, BITS Pilani Goa                                                                                |
| 14:20-14:40                                                                                              | C11. <i>From complex wastewater streams to tailored solutions: Two industrial cases</i> -Suzanne Reinartz, Inopsys                                                                        | 14:20-14:40                                                                                         | ID 54 – <i>Life-cycle assessment of two effluent reclamation plants for hydrogen production in Denmark</i> – Sylvie Braekevelt, Ramboll                                                                                                               |
| 14:40-15:00                                                                                              | ID 95 – <i>Reducing N<sub>2</sub>O Emissions in Wastewater Treatment with Pure Oxygen Aeration: A Full-Scale Study</i> – Izba Ali, Air Liquide                                            | 14:40-15:00                                                                                         | ID 55 – <i>Closing nutrient loops from municipal wastewater and industrial process water in the Netherlands: Life Cycle Assessment of recovered fertilizers</i> – Ruben van den Berg, KWR                                                             |
| 15:00-15:20                                                                                              | ID 71 - <i>Effect of superhydrophobic lamellar plates on particle settling velocity under abrasive sedimentation conditions</i> - Barraza Belen, Universidad Técnica Federico Santa María | 15:00-15:20                                                                                         | ID 128 – <i>Beyond carbon and conventional LCA of wastewater treatment projects: Integrating PMTs and MPs into a cradle-to-grave life cycle assessment of a nature-based tertiary treatment</i> – Nooshin Barzegar Marvasti, University of Birmingham |

15:20-16:00 Coffee Break

**Closing Session (Plenary) (Thursday 2<sup>nd</sup> July 2026): 16:00-17:30**

Room: Auditorium

|             |                                                                                      |
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| 16:00–16:30 | Awards: Best poster, Best oral presentation                                          |
| 16:30–17:00 | Announcement of WIN2028                                                              |
| 17:00-17:30 | Concluding Remarks                                                                   |
| 19:00-23:00 | Conference Dinner<br>Dinner Talk: <b>Rick Hogeboom</b><br><b>Location:</b> Haskoning |

## Friday (3rd July 2026)

|               |                                                                                                                                                                                                                                                                                                                                                                   |
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| 08:00 – 17:00 | <p>Site visits (depending on site)</p> <p><b>Pick-up and drop-off point:</b> Aula</p> <ul style="list-style-type: none"><li>• Veolia Water Tech – Biothane</li><li>• Holland Hydrogen 1 – clean water for a clean fuel</li><li>• Tata Steel IJmuiden</li><li>• Lenntech – Lab-, pilot- and full-scale membrane- and resin-based water treatment systems</li></ul> |
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## Pitches

- Ph 1.** ID 169: Alkalized TripolyPhosphate Cross-linked Chitosan Beads Synthesized from Mushroom Waste (*agaricus bisporus brunnescens*) Were Developed as a Sustainable Biosorbent for the Batch Removal of Toxic Heavy Metals Cr (VI), Cu (II), and Pb (II) – Tesfalem Belay Tesfalem Belay, Bahir Dar Institute of Technology
- Ph 2.** ID 73: Determination of C0-C2 Alkylphenols in Stripped Water using UPLC-Q/Orbitrap HRMS – Yu-long Liu, CNPC Research Institute of Safety and Environment Technology
- Ph 3.** ID 158: Assessing the feasibility of reclaiming process water from industrial wastewater effluent by using Closed-Circuit Reverse Osmosis and evaluating options for treating the resulting brine – Tamarindo Metekohij, Evides Industriewater
- Ph 4.** ID 31: Enhancing the Regeneration Efficiency of Ion Exchange Resins with Ammonium Bicarbonate via CO<sub>2</sub> and Air Pressurisation – Kamran Jalali, Univeristy of New South Wales
- Ph 5.** ID 7: Phytomigration of Residual Heavy Metals from Technogenically Contaminated Treated Waters (Bolnisi, Georgia) – Konstantine Khachapuridze, Technical University of Georgia
- Ph 6.** ID 157 – Human-in-the-loop reinforcement learning for safe economic operation of membrane bioreactor processes in wastewater treatment– Thu Minh Hoang, Nanyang Technological University
- Ph 7.** ID 161: Ultra Short Chain (USC) PFAS Removal from Process Water at Chemours Netherlands–Henk Walpot, Chemours
- Ph 8.** ID 108: Optimized Energy for Water Production (Desalination) and Transmission in Hilly Terrains with Moderate Solar Flux – Selvakumar Rajendran, IWA
- Ph 9.** ID 24: Transforming microplastic waste from water to syngas – Mohammed B. Al Rayaam, Aramco
- Ph 10.** ID 124: Source-Dependent Functionalization of Silica with Pectin for Heavy Metal Removal from Industrial Wastewater – Viktoriia Kyshkarova, Institute of Geotechnics of the Slovak Academy of Sciences
- Ph 11.** ID 52: Development of a Membrane-Based Treatment Train for Water and Solute Recovery in a Bio-Based Industrial Stream – Sara Salvador Cob, VITO
- Ph 12.** ID 56: Membrane Distillation for Reverse Osmosis Brine Management- Marco Rodrigues, Feevale University
- Ph 13.** ID 118: Achieving Water Positivity Through Metered Water consumptions and CSR-Led Replenishment Across Multi-Sector Sites in India – Moumita Ghosh, GRIHA Council
- Ph 14.** ID 35: Maximizing Petrochemical Wastewater Reuse Through Hybrid Membrane and Electro-Oxidation Technologies - Marco Antônio Rodrigues, Feevale University
- Ph 15.** ID 74: Enabling Circular Water Transitions: Integrating AI-driven Governance, Feasibility, and Stakeholder Adoption – Mehak Puri, Goa Institute of Management
- Ph 16.** ID 68: Analysis, Comparison and Review of Water Policies for Governance and Management in Sub-Saharan Africa – Joseph Igbiniedion, ELTE Eötvös Loránd University
- Ph 17.** ID 81: Electrocoagulation Treatment of Mature Landfill Leachate: Performance Evaluation and Energy Reduction via Pulsed Current – Inga Urniežaitė, Kaunas University of Technology
- Ph 18.** ID 28: Electrochemical Recovery of Alkalis from Ultrapure Water Resin Regeneration Wastewater Using Selective Ion-Exchange Membranes – Sin-Yi Huang, Industrial Technology Research Institute
- Ph 19.** ID 64: Sustainable operation of semi-batch reverse osmosis for industrial effluent treatment using artificial intelligence – Jungbin Kim, Wenzhou-Kean University
- Ph 20.** ID 156: Data-enabled predictive control for membrane-based wastewater treatment processes – Xunyuan Yin, Nanyang Technological University
- Ph 21.** ID 135: Optimizing Foam Fractionation as a Key Concentration Technology for PFAS Removal - Julian Muñoz Sierra, KWR Water Research Institute
- Ph 22.** ID 164: Sustainable Adsorptive Removal of PFAS Using Waste-Derived Activated Carbons: Role of Surface Chemistry and Pore Structure – Intae Shim, University of Science & Technology

## Poster Sessions

### Industrial Effluent – Treatment

1. **ID 56:** *Membrane Distillation for Reverse Osmosis Brine Management* – Marco Rodrigues, Feevale University
2. **ID 62:** *Industrial Wastewater characteristics in Addis Ababa and treatment challenges* – Girm Tegegnework Wolde, Mekuria Enviro Friendly Consultancy
3. **ID 64:** *Sustainable operation of semi-batch reverse osmosis for industrial effluent treatment using artificial intelligence* – Jungbin Kim, Wenzhou-Kean University
4. **ID 124:** *Source-Dependent Functionalization of Silica with Pectin for Heavy Metal Removal from Industrial Wastewater* – Viktoriia Kyshkarova, Institute of Geotechnics of the Slovak Academy of Sciences
5. **ID 145:** *Performance of CO<sub>2</sub> Degasification in a Lab-scale Stripper with Activated Carbon Bed* – Miseon Kim, University of Science and Technology
6. **ID 151:** *Amino- and Imidazole-Functionalized Silica Adsorbents for Cr(VI) Removal from Industrial Wastewater* – Nataliia Chechitko, Institute of Geotechnics of the Slovak Academy of Sciences, Technical University of Košice (TUKE)
7. **ID 165:** *Microalgal Phycoremediation of Pulp and Paper Wastewater: From Strain Screening to Pilot-Scale Validation* – Ricky Rajamanickam, Linnaeus University
8. **ID 169:** *Alkalized Tripolyphosphate Cross-linked Chitosan Beads Synthesized from Mushroom Waste (*agaricus bisporus brunnescens*) Were Developed as a Sustainable Biosorbent for the Batch Removal of Toxic Heavy Metals Cr (VI), Cu (ii), and Pb (ii)* – Tesfalem Belay Tesfalem Belay, Bahir Dar Institute of Technology

### Reuse, Resource, and Energy Recovery

9. **ID 35:** *Maximizing Petrochemical Wastewater Reuse Through Hybrid Membrane and Electro-Oxidation Technologies* – Marco Antônio Rodrigues, Feevale University
10. **ID 146:** *Toward Sustainable CO<sub>2</sub> Mineralization: Reaction Pathways and Applications* – Doheun Kwak, University of Science and Technology
11. **ID 130:** *A Multi-Criteria Review and Geospatial Analyses for Air Conditioner (AC) Condensate Water Reuse* – Samuel Nketia Boateng, Univeristy of Cape Coast
12. **ID 152:** *Spatial Prioritization of Treated Wastewater Use in Urban Areas* – Sang Ug Kim, Kangwon National University
13. **ID 158:** *Assessing the feasibility of reclaiming process water from industrial wastewater effluent by using Closed-Circuit Reverse Osmosis and evaluating options for treating the resulting brine* – Tamarindo Metekohij, Evides Industriewater
14. **ID 24:** *Transforming microplastic waste from water to syngas* – Mohammed B. Al Rayaan, Aramco
15. **ID 28:** *Electrochemical Recovery of Alkalis from Ultrapure Water Resin Regeneration Wastewater Using Selective Ion-Exchange Membranes* – Sin-Yi Huang, Industrial Technology Research Institute
16. **ID 76:** *Industrial Effluent: Treatment, Reuse and Safe Discharge Strategies for Sustainable Industrial Development in Bangladesh* – Md Mahbub Alam, Eco Growth Industrial Solutions, Institute Of Professional Learning & Development (IPLD)
17. **ID 137:** *Thermo-economic optimisation of low-grade waste heat recovery systems* – Abubakar Kuburi, Newcastle University
18. **ID 31:** *Enhancing the Regeneration Efficiency of Ion Exchange Resins with Ammonium Bicarbonate via CO<sub>2</sub> and Air Pressurisation* – Kamran Jalali, Univeristy of New South Wales

### Industrial Water Pollutants

19. **ID 7:** *Phytomigration of Residual Heavy Metals from Technogenically Contaminated Treated Waters (Bolnisi, Georgia)* – Konstantine Khachapuridze, Technical University of Georgia
20. **ID 73:** *Determination of C0-C2 Alkylphenols in Stripped Water using UPLC-Q/Orbitrap HRMS* – Yu-long Liu, CNPC Research Institute of Safety and Environment Technology
21. **ID 135:** *Optimizing Foam Fractionation as a Key Concentration Technology for PFAS Removal* – Julian Munoz Sierra, KWR Water Research Institute

22. **ID 161:** *Ultra Short Chain (USC) PFAS Removal from Process Water at Chemours Netherlands – Henk Walpot, Chemours*
  23. **ID 164:** *Sustainable Adsorptive Removal of PFAS Using Waste-Derived Activated Carbons: Role of Surface Chemistry and Pore Structure – Intae Shim, University of Science & Technology*
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#### **Water–Energy Nexus**

24. **ID 163:** *Optimizing the Water-Energy-Carbon Nexus in a wastewater treatment plant through advanced aeration control and hybrid renewable integration – Intae Shim, University of Science & Technology*
  25. **ID 81:** *Electrocoagulation Treatment of Mature Landfill Leachate: Performance Evaluation and Energy Reduction via Pulsed Current – Inga Urniežaitė, Kaunas University of Technology*
  26. **ID 108:** *Optimized Energy for Water Production (Desalination) and Transmission in Hilly Terrains with Moderate Solar Flux – Selvakumar Rajendran, IWA*
  27. **ID 147:** *Enabling High-Temperature, Scaling-Free Multi-Effect Distillation Systems – Ahmed Alanazi, KAUST*
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#### **Digitalization and Smart Control**

28. **ID 74:** *Enabling Circular Water Transitions: Integrating AI-driven Governance, Feasibility, and Stakeholder Adoption – Mehak Puri, Goa Institute of Management*
  29. **ID 156:** *Data-enabled predictive control for membrane-based wastewater treatment processes – Xunyu Yin, Nanyang Technological University*
  30. **ID 157:** *Human-in-the-loop reinforcement learning for safe economic operation of membrane bioreactor processes in wastewater treatment – Thu Minh Hoang, Nanyang Technological University*
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#### **Water Policies and Industrial Symbiosis**

31. **ID 65:** *A Hybrid IoT–Satellite Framework for Real-Time, Scalable Water Quality Monitoring – Muhammad Misbah Ul Hussain, University of Trento*
32. **ID 68:** *Analysis, Comparison and Review of Water Policies for Governance and Management in Sub-Saharan Africa – Joseph Igbinedion, ELTE Eötvös Loránd University*
33. **ID 118:** *Achieving Water Positivity Through Metered Water consumptions and CSR-Led Replenishment Across Multi-Sector Sites in India – Moumita Ghosh, GRIHA Council*
34. **ID 143:** *Assessment of the Treated Effluent Discharge Effects on Receiving Waters – Kalirajan Arunachalam, Mulungushi University*
35. **ID 148:** *Water Literacy and Sustainable Water Use: Behavioral Drivers of Water Demand Management among University Students – A Systematic Review – Norr Hassan, University of Doha for Science and Technology, Hamad Bin Khalifa University*