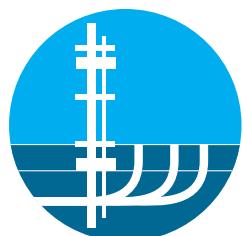


PROGRAMME

17 – 19 November 2020
Virtual Conference

Industrial Water 2020

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**INDUSTRIAL
WATER 2020**



#IndustrialWater

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PROGRAMME

Tuesday, 17 November 2020

-
- 12:30 **Welcome and Introduction**

Chair:

- 12:50 **KEYNOTE LECTURE**

Environmental and economic assessment of innovative solutions in water management

F. Dinkel¹; N. Rastetter²; R. Wünsch²; ¹ Carbotech AG, Basel/CH; ² FHNW - University of Applied Sciences and Arts Northwestern Switzerland, Muttenz/CH

DIGITALIZATION IN INDUSTRIAL WATER MANAGEMENT

Chair:

- 13:35 **Upgrade the capacity of your wastewater treatment plant through a software upgrade rather than through a hardware upgrade – SmartLab®**

M. Brockmann¹; J. De Lathouwer²; ¹ Waterleau Services Germany GmbH, Bremen/D; ² Waterleau Group nv, Wespelaar/B

- 13:55 **Digitally integrated industrial wastewater treatment: DynaWater4.0**

J. Singer¹; M. Kojadinovic¹; G. Robleto²; C. Hübner²; J. Alex²; P. Hasse³; F. Plonsky³; E. Bitter¹; ¹ EnviroChemie GmbH, Rossdorf/D; ² ifak - Institut für Automation und Kommunikation e. V., Magdeburg/D; ³ Fraunhofer FOKUS, Berlin/D

- 14:15 **Discussion with the speakers of the previous session**

- 14:25 **Break and meet the exhibitors**

- 14:55 **Digitizing large industrial water users – IndustrialWater 4.0**

D. Becker¹; ¹ DECHEMA e.V., Frankfurt am Main/D

- 15:15 **Digitalization in industrial wastewater treatment -Reduction of operating costs through intelligent online analysis**

T. Hackner¹; ¹ HUBER SE, Berching/D

- 15:35 **Discussion with the speakers of the previous session**

- 15:45 **Poster FlashTalks**

- 16:45 **Exhibitor FlashTalks**

PROGRAMME

Wednesday, 18 November 2020

10:15 Welcome

TREATMENT OF PROCESS WATER

Chair:

10:20 Recovery of Ammonia from Fertiliser Plant Condensate for Energy Generation Purposes

G. Bandinu¹; N. van Linden¹; D. Overmeire²; R. van Lier³; H. Spanjers¹; J. van Lier¹; ¹ TU Delft, Delft/NL; ² Yara Sluiskil B.V., Sluiskil/NL; ³ Yara International, Brussels/B

10:40 Recovery of Ammonia from Livestock and Municipal Wastewater using Gas Permeable Membranes: Effect of Carbonate Alkalinity

M. Vanotti¹; ¹ United States Department of Agriculture, Florence, SC/USA

11:00 Discussion with the speakers of the previous session

11:10 Demand-driven air supply – It's a system

M. Bickendorff¹; H. Hermann¹; ¹ Binder Engineering GmbH, Ulm/D

11:30 German Cooperation - Industrial Wastewater Treatment in India and MENA

L. Heinrich¹; ¹ Isle Utilities GmbH for German Water Partnership e.V, Berlin/D

11:50 Discussion with the speakers of the previous session

12:00 Break and meet the exhibitors

Chair:

12:50 KEYNOTE LECTURE

Dow's Sustainable Water Use Strategy - Terneuzen Wetland Research

N. Groot¹; A. de las Heras²; O. Schepens³; D. van Oirschot⁴; D. Rousseau⁵; ¹ Dow Benelux BV, Hoek/NL; ² Dow Benelux BV, Terneuzen/NL; ³ Evides Industriewater B.V., Rotterdam/NL; ⁴ Rietland bvba, Minderhout/B; ⁵ University of Ghent, Kortrijk/B

TREATMENT OF COOLING AND PROCESS WATER

Chair:

13:35 Cooling tower water characterisation and treatment - Dow Benelux, Terneuzen case study

P. Saha¹; H. Bruning¹; H. Rijnaarts¹; ¹ Wageningen University and Research, Wageningen/NL

13:55 Efficient control of the chemical dosing in a cooling tower water treatment of a reused waste water

M. Witte¹; C. Persner¹; P. Tojo²; ¹ Grundfos Water Treatment GmbH, Pfintzal/D; ² Grundfos A/S, Bjerringbro/DK

14:15 Experience and outlook for innovative and sustainable solutions for efficient water use in steel industry by desalination with capacitive deionisation

M. Hubrich¹; M. Kozarischuk¹; E. Piedra Fernandez²; B. Padilla Vivas²; ¹ VDEh-Betriebsforschungsinstitut GmbH, Düsseldorf/D; ² ArcelorMittal, Global R&D Asturias, Aviles/E

14:35 Discussion with the speakers of the previous session

14:50 Break and meet the exhibitors

INDUSTRIAL WASTEWATER MANAGEMENT

Chair:

15:20 Effluent Polishing in Industrial Wastewater Treatment

J. Schumacher¹; A. Meda¹; ¹ BHU Umwelttechnik GmbH, Leonberg/D

15:40 Centralised treatment of industrial wastewater; a robust solution

J. Mulder¹; S. Dr. Lübbecke²; ¹ Evides Industriewater B.V., Rotterdam/NL; ² Evides Industriewater Deutschland GmbH, Bremen/D

16:00 Discussion with the speakers of the previous session

16:10 Point of Use (PoU) wastewater treatment systems (case studies in the semiconductor industry)

S. Sfaelou¹; ¹ DAS Environmental Expert GmbH, Dresden/D

16:30 Effluent reuse for fresh water reduction in Pulp & Paper industry

S. Prasse¹; ¹ Centre Technique du Papier, Grenoble cedex 9/F

16:50 Discussion with the speakers of the previous session

Thursday, 19 November 2020

10:15 **Welcome**

HIGH SALINE WASTEWATERS

Chair:

10:20 **Goodbye biofouling - Strategies to successfully reduce the risk of biofouling in reverse osmosis plants**
J. Henkel¹; M. Slagt²; ¹ DuPont, Rheinmuenster/D; ² DuPont de Nemours, Terneuzen/NL

10:40 **Membrane Distillation Affected by Scale Formation During Brine Concentration**
S. Schilling¹; H. Glade¹; ¹ University of Bremen, Bremen/D

11:00 **Discussion with the speakers of the previous session**

11:10 **Ionic separation of ion exchange brine by nanofiltration**
D. Diamantidou¹; N. van Linden¹; B. Heijman²; H. Spanjers²; ¹ Lenntech, Delft/NL; ² Delft University of Technology, Delft/NL

11:30 **Bioprocess Development for Continuous Treatment of Industrial Waste Salt Water**
T. Mainka¹; C. Herwig¹; S. Pflügl¹; ¹ Technische Universität Wien, Vienna/A

11:50 **Discussion with the speakers of the previous session**

12:00 **Break and meet the exhibitors**

Chair:

12:50 **KEYNOTE LECTURE**

Management of industrial concentrates

S. Geißen¹; ¹ Technische Universität Berlin, Berlin/D

PHYSICO-CHEMICAL TREATMENT PROCESSES

Chair:

13:35 **Electrochemical advanced oxidation through a novel system with a compact in-situ oxidant production reactor in combination with an electrochemical precipitation reactor**
T. Muddemann¹; D. Haupt¹; M. Sievers¹; Y. Schießer²; R. Neuber³; U. Kunz¹; ¹ Clausthal University of Technology, Clausthal-Zellerfeld/D; ² Covestro Deutschland AG, Leverkusen/D; ³ CONDIAS GmbH, Itzehoe/D

13:55 **Enhanced Electrochemical Production of Hydrogen Peroxide**

N. Kuipers¹; ¹ Wageningen Food and Biobased Research, Wageningen/NL

14:15 **Elimination of active pharmaceutical ingredients from wastewater of pharmaceutical production sites**
D. Londoño Moreno¹; ¹ EnviroChemie GmbH, Roßdorf/D

14:35 **Discussion with the speakers of the previous session**

14:50 **Break and meet the exhibitors**

15:20 **Degradation after adsorptive enrichment – novel concepts for degradation of challenging contaminants**

A. Georgi¹; K. Mackenzie¹; L. Qian¹; F. Kopinke¹; ¹ Helmholtz Centre for Environmental Research - UFZ, Leipzig/D

15:40 **AquaCritox® SC: Next Generation Hydrothermal Oxidation of Spent Caustic**

S. Kaspar¹; ¹ H+E GmbH, Stuttgart/D

16:00 **Discussion with the speakers of the previous session**

16:10 **Wrap up & Closure**

T. Track¹; S. Geißen²; ¹ DECHEMA e.V., Frankfurt am Main/D; ² Technische Universität Berlin, Berlin/D