

Tunisian Water Days 2022

SUSPIRE: Sustainable decentralized industrial wastewater recycling in rural areas - poultry slaughterhouse as an example

Tunisian-German Innovation Forum 2022

02 November 2022, Hotel ACROPOLE in Tunis

8:00-8:30	Registration
9:00-10:00	<p>Welcome and Introduction Moderator: Prof. Ahmed Ghrabi</p> <ul style="list-style-type: none"> • Words of greeting, Mr. Matthias Makowski (DLR) (online), Mme Rim Saied (MESRS), Ahmed Ghrabi (CERTE), Sven Geissen (TUB) • Innovation and valorisation in research and cooperation, MESRS, Rim Saied and Besma Ben Mosbah • German Water Partnership Introduction, GWP, Markus Leidinger, Julia Braune, Sven Geißen • Introduction of the SUSPIRE project, CERTE, Latifa Bousselmi
10:00-11:20	<p>Industrial wastewater treatment and reuse Moderator 1: Prof. Latifa Bousselmi Moderator 2: Mr. Markus Leidinger 15 min +5 min discussion/ presentation</p> <ul style="list-style-type: none"> • Industrial wastewater treatment and reuse in Tunisia, ONAS, Raja Hajsalem • Examples for treatment of chemical, textile, laundry, wood processing wastewater, Delta Umwelt, Isidro Oviedo (online) • Challenges and opportunities in industrial wastewater treatment and reuse, TU Berlin, Sven Geissen • Best practice examples from food industry, EnviroChemie, Ahmed Rassam (online)
11:20-11:40	Poster Presentation (max 20 Posters short teaser 1 min 3 slides)
11:40-12:00	Coffee
12:00-13:40	<ul style="list-style-type: none"> • SUSPIRE: Wastewater recycling in a Tunisian slaughterhouse, TU Berlin, CERTE, Maximilian Philipp, Khaoula Masmoudi • Slaughterhouse wastewater treatment, Aquaconsult, Peter Hartwig (online) • Valoriation of wastewater from phosphate industry, TU Berlin, Nesrine Barbana • Treatment and recovery of valuables from olive mill effluents, TU Berlin, CBS, Jonas Pluschke, Fati Hadrich • Water management for phosphate industry in Tunisia, Hajji Fahd, Groupe Chimique Tunisien
13:40-14:40	Networking Lunch followed by coffee in the (poster) exhibition

14:40-16:20	<p>Solid waste management and the valorization of bioorganic residues</p> <p>Moderator 1: Prof. Sven Geissen Moderator 2: Prof. Ahmed Ghrabi 15 min +5 min discussion/ presentation</p>
	<ul style="list-style-type: none"> • Valorisation of the poultry co-products, Poulina Groupe, Marwa Sghair • Waste and biowaste management in Tunisia, Afef Makni Siala, ANGED • Organic waste treatment anaerobic digestion technology, Tunisian case studies, ONAS, Thameur Jawadi • Anaerobic digestion for agrofood industry, INSAT, Hamdi Mokhtar • Solution approaches for the circular economy with examples from Tunisia, RETech Partnership, Universtiät Rostock, Abdallah Nassour (online)
16:20-16:40	<p><i>Coffee</i></p>
16:40-18:00	<ul style="list-style-type: none"> • Poultry manure turning into valuable biochar: application for phosphorus recovery from aqueous solutions and reuse in agriculture, CERTE, Samar Hadroug • Le concept de EUWELLE GmbH pour le traitement des déchets ménagers et assimilées, EU Welle, Youssef Rannane, Hubert Wienands • Conversion of organic residuals for CO₂ fixation, Delta Umwelt, Isidro Oviedo (online) • High-performance anaerobic treatment of organic waste and sludge– full-scale applications, Technocon, Bernd Morawe (online)

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8:00-8:30	Registration
9:00-11:00	<p>Water supply including alternative water sources Moderator GR: Hubertus Schrage Moderator TN: Thouraya Mellah 10 min +5 min discussion/ presentation</p> <ul style="list-style-type: none"> • Closing water and nutrient loops, Martin Regelsberger • Improving industrial wastewater treatment and reuse for tomato processing in Korba (case study), GIZ, Esther Thomas • Non-conventional water: limitations and best practices, CERTE, Latifa Bousselmi, Thouraya Mellah • Leakage Detection Management System dedicated for W&WW part 1, Severin, Michael Kersting (online) • Leakage Detection Management System dedicated for W&WW part 2, Krohne, Mr. Rumpf (online) • Analytic Hierarchy Process (AHP) Multiple Criteria Decision Analysis (MCDA) based Assessment of industrial practices for Groundwater preservation and pollution reduction, CERTE, Hatem Baccouche
11:00-11:20	Coffee
11:20-12:40	<ul style="list-style-type: none"> • Brackish Water desalination for irrigation, TU Berlin, Fraunhofer ISE, L. Streckwall, J. Koschikowski • Reuse of wastewater in Tunisia, DGGREE, Ministry of Agriculture Hydraulic Resources and Fisheries, Sabri Regaieg • Decentralized and semi-centralized wastewater reuse, ATB Water, Thomas Gester, Ahmed Haggag (online) • Water Desalination, Experience of SONEDE, SONEDE, (tbc)
12:40-13:40	Lunch followed by coffee in the (poster) exhibition
13:40-15:40	<p>Energy savings in wastewater treatment Moderator GR: Sven Geissen Moderator TN: Latifa Bousselmi 10 min +5 min discussion/ presentation</p> <ul style="list-style-type: none"> • Treatment of municipal wastewater in Tunisia, ONAS, Lilia Malouch • Ultrafiltration by use of ceramic membranes - Case Study, EPPM, Ahmed Elleuch • Energy efficiency in STP Design considering current effluent standards and possible changes, p2m Berlin, Hubertus Schrage, Annette Elmers

	<ul style="list-style-type: none"> • From energy consumption towards production in WWTPs, TU Berlin, Johannes Wellmann • WWTP Liebenwalde; Hollistic system conversion with 42% capacity increase and 47% cost reduction inclusive 80% state funding, Aerzener Maschinenfabrik, Markus Leidinger • Highly Energy Efficient Aeration Systems in Wastewater Treatment, Rudolf Messner Umwelttechnik, Julian Keidel-Eckert
15:40-16:00	<i>Coffee</i>
16:00-17:20	<ul style="list-style-type: none"> • Digitalization and Energy Efficiency in Water Treatment Plants, Mitsubishi Electric, Marco Clerici • Smart aeration control for improved cleaning performance and low energy costs, Manfred Schweda, Binder Engineering, Generizon • Cost effective solution for industrial wastewater treatment by using trickling filter, BRENTWOOD-ENEXIO, Juan Carlos Demmerle, Noama Shareef
17:20-18:00	<i>Reflecting on the two days Meet the authors/ exhibitors</i>



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Project Workshops

04 November 2022, Training Centre La Goulette

8:00-8:30	Registration
09:00-09:15	<ul style="list-style-type: none"> • Introduction and goals, CERTE, TU Berlin, Latifa Bousselmi and Sven Geissen
09:15-10:00	<ul style="list-style-type: none"> • Valorization of innovation - tools and examples, Centre of Entrepreneurship TU Berlin, Chistine Oesterhelt, Caroline Reid
10:00-11:00	<p>Workshops on real projects with consultants, EPC companies, suppliers, professors and students in mixed teams; Examples:</p> <ul style="list-style-type: none"> • Recycling of municipal wastewater for industrial use • Energetic optimization of a municipal WWTP • Treatment of industrial wastewater • Recycling of industrial wastewater including concentrate management • Co-digestion of sludge and organic waste, • Waste management concept (Sfax)
11:00- 11:10	Coffee
11:10-13:00	<ul style="list-style-type: none"> • Project results and follow-up
13:00	Closure and lunch

