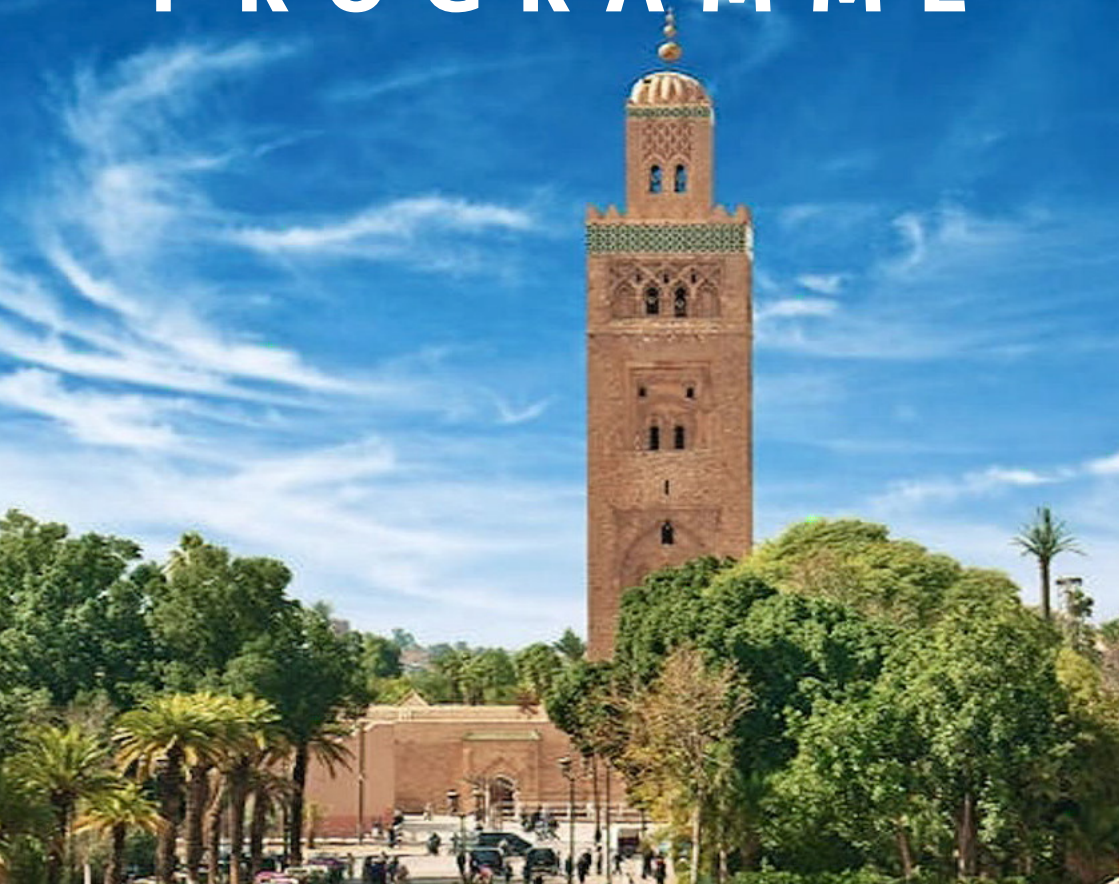


EuroMed 2026
Desalination, Water Reuse and
the Environment
22–25 June 2026, Marrakech, Morocco

P R O G R A M M E



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standardization for hydraulic
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Tuesday June 23rd,
Session 15, 16:50
Presented by Eli Okejas



Containers



Brine Mining



Agriculture



Water Reuse



Hotels/Resorts



Retrofits

Booth B1

22-25 JUNE 2026
Pickalbatros Hotel Du Golf
Marrakech, Morocco



PROGRAMME OUTLINE

Monday 22 June 2026

9:00–17:30 Registration
9:00–18:00 Exhibition set-up
9:30–13:00 Workshop on Non-Conventional Water for Sustainable Agriculture.
Co-organised by IWRI, OCP Green Water and EDS
13:00–14:00 Lunch
14:00–18:00 Technical sessions
18:00–19:00 Poster pitches
19:45–21:00 Welcome reception

Tuesday 23 June 2026

8:00– 9:00 Registration
9:00–11:00 Official opening
11:00–11:40 Walk around the exhibition and coffee break
11:40–12:50 Panel session on the Future of Desalination in Morocco. Co-organised by EDS, IWRI and OCP Green Water
12:50–13:50 Lunch
13:50–17:50 Technical sessions
18:00–19:00 EDS Young and Emerging Professionals Meet-Up

Wednesday 24 June 2026

8:30 Technical sessions 17–20
10:10 Coffee break
10:30 Panel session Misconceptions Affecting Social Perception and Acceptance of Desalination. Co-organised by EDS and the Expert Group on Desalination of Water Europe
11:40 Technical sessions 21–24
13:00 Lunch
14:10 Technical sessions 25–32
20:00 Gala Event at Kasbah Palm, Palmeraie. Sponsored by FEDCO

Thursday 25 June 2026

9:20 Technical sessions 33–36
10:40 Coffee break
11:00 Technical sessions 37–40
12:40 Innovation Panel session with the finalists of the Miriam Balaban Innovation Award
13:45 Lunch
14:40 Closing ceremony and the announcement of the winner of the Miriam Balaban Award

PROGRAMME OUTLINE — TECHNICAL SESSIONS

Monday 22 Junel

	Oliveraie	Orangerai	Reseraie	Palmeraie
14:00–15:40	1 Brine valorisation I	2 Mass transfer and transport through membranes	3 Fouling I	4 Advanced wastewater treatment I
15:40–16:00 Coffee break				
16:00–17.20	5 Brine valorisation II	6 Water–energy nexus	7 Fouling II	8 Advanced wastewater treatment II
18:00–19.00 Poster pitches				

Tuesday 23 June

	Oliveraie	Orangerai	Reseraie	Palmeraie
13:50–15:30	9 Brine valorisation III	10 Energy efficiency	11 Osmotic processes for brine concentration	12 Novel materials for desalination
15:30–15:50 Coffee break				
15:50–17:30	13 Brine valorisation IV	14 Solar desalination / Energy recovery systems	15 Fouling and scaling	16 Advancements in pretreatment I

Wednesday 24 June

8:30–10:10	17 Electromembrane technologies	18 Membrane distillation I	19 Innovations in reverse osmosis	20 Advancements in pretreatment II
10:10–10:30 Coffee break				
10:30–11:40 Panel session Misconceptions Affecting Social Perception and Acceptance of Desalination				
11:40–13:00	21 Novel membranes	22 Membrane distillation II	23 Brackish water desalination	24 Advancements in pre- and post-treatment
13:00–14:00 Lunch				
14:00–15:40	25 Minimum and zero liquid discharge (MLD, ZLD) schemes	26 Reverse osmosis membranes	27 Desalination in policies and societal impacts	28 Special session for the EXBRINER project
15:40–16:00 Coffee break				
16:00–18:00	29 Ceramic membranes	30 Seawater intakes	31 New concepts for desalination	32 Special session for the EXBRINER project

Thursday 25 June

9:20–10:40	33 Simulation / Machine learning	34 Green hydrogen	35 Desalination and the environment	36 Plant design and optimisation
10:40–11:00 Coffee break				
11:00–12:40	37 Thermal desalination	38 Desalination and sustainability	39 Regional / case studies	40 Plant operation
12:40–13:45 Innovation Panel session with the finalists of the Miriam Balaban Innovation Award				
13:45–14:40 Lunch				
14:40–15:30 Closing ceremony and the announcement of the winner of the Miriam Balaban Award				

Monday Morning
22 June 2026

SIRWA

8:45 Registration starts

9:30 **Workshop on Non-Conventional Water for Sustainable Agriculture.**

Co-organised by IWRI, OCP Green Water and EDS.

Workshop Chair and Organizer *Prof. Abdessamad Belgada*, International Water Research Institute (IWRI), Mohammed VI Polytechnic University (UM6P), Morocco

9:30 Opening remarks

10:00 **Desalination and the Water-Energy-Food Nexus: Pathways for Sustainable Agriculture**

Moderator:

Prof. El Mahdi El Khalki, Professor in Hydrometeorology Modeling, IWRI, UM6P

Panellists:

Jauad El Kharraz, CEO & Founder, Water Energy Climate Experts Network (WECEN)

Mrs. Ithar Khair-Allah, Director, Oum Er Rbia Hydraulic Basin Agency

Mrs. Lamia Housni, Director of Business Development, OCP Green Water (OGW)

Prof. Abdessamad Hadri, Professor and Researcher in Integrated Water Resources Management, IWRI, UM6P

Prof. Lhoussine Bouchaou, International Expert in Integrated Water Resources Management and Groundwater Quality, University Ibn Zohr (UIZ) of Agadir; IWRI-UM6P

10:50 Coffee break

11:10 **Integrating Desalination and Water Reuse into Climate-Resilient Agricultural Systems**

Moderator:

Prof. Youssef Amine Boussouga, Professor in Desalination and Water Treatment Technologies, IWRI, UM6P

Panellists:

Ehssan El Meknassi, International Expert in Water Reuse

Prof. Bruno Gerard, Associate Dean, College of Agriculture and Environmental Sciences, UM6P

Mr. Zakaria El Yacoubi, Director of Irrigation and Agricultural Land Development (DIAEA), Ministry of Agriculture, Morocco

Mr. Redouane Choukr-Allah, Former Professor at Institut Agronomique et Vétérinaire Hassan II (IAV Hassan II) and Expert in Water Reuse for Agriculture

Prof. Wafae El-Harraki, Professor and researcher at the National Superior School of Mines of Rabat, former Head of the Non-Conventional Water Development Department at the Ministry of Equipment and Water

Monday Morning
22 June 2026

SIRWA

12:00 **One Health Approaches for Non-Conventional Water in Agriculture and livestock farming: Linking Water, Soil, Environmental, and Public Health**

Moderator: *Ngonidzashe Chirinda*, Climate change scientist and Professor in Sustainable Tropical Agriculture at UM6P

Panellists:

Mrs. Soukaina Maaninou, CEO and co-founder of Ecolilab, Expert in Microbiology and Water Quality Assessment

Prof. Zakaria Hazzoumi, Expert in valorization of natural resources from semiarid ecosystems, AGBS-UM6P

Prof. Tarik Chfadi, Expert in Applied Economics for Water Resource Management actively engaged in the One Health Initiative, IWRI, UM6P

Dr. Lahcen Hasnaoui, Former DIAEA, Consultant in water treatment and quality control

Prof. Sanae Benmkaddem, Associate Professor in Immunology, actively engaged in One Health Initiative for Human and Animals, Faculty of Medical Sciences, **UM6P**

12:50 Closing

13:00 Lunch

14:00 Technical sessions

18.30–20.00 Welcome reception

Monday Afternoon
22 June 2026

OLIVERAIE

Session 1 Brine valorisation I

- 14:00 54** A global outlook of the desalination industry and state-of-the-art technologies for brine valorisation
Carmelo Morgante, Marta Herrero-Gonzalez, Julio Lopez Rodriguez, Jan Imholze, Vittorio Boffa, Raquel Ibañez Mendizabal, José Luis Cortina Pallas
- 14:20 163** Roadmap to deploy a digital twin for accelerating brine valorisation: from pilot testing to model-based optimisation and scale-up
Yanira López López, Angel Rivero Falcon, José Antonio Carta, Baltasar Peñate Suarez, Pedro Jesus Cabrera Santana
- 14:40 209** The CARMEn project: A novel circular approach to recover critical raw materials and energy from spent seawater brines
Giuseppe Scelfo, Giuseppe Battaglia, Michela Cardella, Antonia Filingeri, Andrea Culcasi, Francesco Volpe, Lorenzo Craveri, Erica Bertozzi, Alberto Tiraferri, Andrea Cipollina, Giorgio Micale
- 15:00 180** Concentration of saline water in a hybrid membrane system
Marian Turek, Krzysztof Mitko
- 15:20 173** Annual assessment of a hybrid CAES–PV–RO system with brine re-use
Aarón Raúl Poyatos Bakker, Lidia Roca, Cintia Gómez-Serrano, F. Gabriel Acien, Patricia Palenzuela
- 15:40 Coffee break**

Session 5 Brine valorisation II

- 16:00 129** Performance assessment of forward osmosis for brine concentration with multi-effect distillation regeneration stage
Bartolomé Ortega Delgado, Patricia Palenzuela, Lourdes García-Rodríguez, Guillermo Zaragoza
- 16:20 193** Brine valorization through selective nanofiltration and membrane brine concentration: Operational performance evaluation
Guillem Gilabert-Oriol, Seungwon Ihm, Omar Al-Raqibah, Eslam AlWaznani, Mohammed Al-Talibi, Claudia Niewersch, Dean Welsh
- 16:40 221** Closing the brine valorisation cycle at DESAL+ Living Lab via an integrated approach to high-purity salt production
Ángel Rivero Falcón, Yanira López López, Baltasar Peñate Suárez, Noemi Melián Martel
- 17:00 295** Towards sustainable desalination in Morocco: brine valorization in the agri-food industry as a circular economy lever
Anas Aguelmous, Abdessamad Belgada, Nawal Sifa
- 17:20 53** Selective magnesium recovery from seawater-derived solutions through recyclable metal-organic framework glass-based adsorbents
Carmelo Morgante, Samraj Mollick, Morten Mattrup Smedskjær, Vittorio Boffa

Monday Afternoon
22 June 2026

ORANGERAIE

Session 2 Mass transfer and transport through membranes

- 14:00 276** Diving into the transfer of small organics in seawater reverse osmosis desalination: Insights and cascade strategies
Fatima Zohra Charik, Saad Alami Younssi, Murielle Rabiller-Baudry
- 14:20 10** Direct numerical simulation of flow and mass transfer in feed spacer-filled channels of membrane separation processes
Santiago Cespedes, Cristian Picioreanu, Bastiaan Blankert
- 14:40 66** Discrepancy between salinity and pH on Na⁺ rejection: Experimental and modelling insights
Fernan David Martinez Jimenez, Bastiaan Blankert, Cristian Picioreanu
- 15:00 154** Fundamental challenges to solution-diffusion theory of water transport across membrane
Lianfa Song
- 15:20 82** Carrier-ion interactions in membranes enable efficient nitrate and chloride separation in wastewater
Fei Liu, Wan Chao, Yang Zhang
- 15:40 Coffee break**

Session 6 Water–energy nexus

- 16:00 314** Desalination at scale: where energy transition meets water security
Minna Marghiche
- 16:20 307** Synergistic optimization of membrane processes and energy mix: Towards a low-carbon desalination model with reduced OPEX
Mohamed Amine
- 16:40 244** Assessment of energy efficiency of the DESALRO 2.0® plant installed at the Canary Islands Institute of Technology
Lourdes García-Rodríguez, Rafael González-Almenara, Baltasar Peñate-Suarez, J. Antonio de la Fuente-Bencomo, Sigrid Arenas-Urrea
- 17:00 208** Integrated solar micro gas turbine–driven seawater desalination combining high-recovery SWRO and zero liquid discharge
Rafael González Almenara, Lourdes García-Rodríguez, Néstor Santana-Hernández, Agustín Delgado-Torres, Jesús Montes-Sánchez, Jorge Camacho-Espino, Bartolomé Ortega-Delgado, Nicolás Aranda-Pérez
- 17:20 88** Optimize and design of photovoltaic materials for high-efficiency on-grid desalination
Fatima Zahra Kamli, Khalid Belasfar, Omar Zahot, Taoufik Garmim, Mounir Belbahloul, Abdelhadi El Bachiri, Mohamed Merouane El Hammoui

Monday Afternoon
22 June 2026

RESERAIE

Session 3 Fouling I

- 14:00 86** Beating biofouling: How a revised cleaning and pretreatment strategy restored RO performance
Gabriele Brummer
- 14:20 99** Sustainable scale control and biofouling mitigation in seawater reverse osmosis using aKua® 100 and data-driven dose optimization
Isabel Borrego-Jimenez, Jorge Agenjo-Monge, Lorena Welte-Hidalgo, Oscar Salmeron-Martinez
- 14:40 78** Influence of concentration polarization on RO membrane service life
Haytham Abdelfatah, Eli Oklejas
- 15:00 271** Independent pilot evaluation of electrochemical feedwater conditioning for energy and fouling reduction in seawater reverse osmosis
Chris Rose

15:40 Coffee break

Session 7 Fouling II

- 16:00 93** Use of membrane concentration polarization (CP) to monitor and control membrane biological fouling in SWRO desalination
Harvey Winters, Eli Oklejas
- 16:20 279** Optimizing coagulation dose, pH and rapid mixing with MFI-UF to reduce particulate/colloidal fouling in RO/NF
Yiman Liu, Abrar Adem, Afrasiab Yameen, Nirajan Dhakal, Peter Vollaard, Rinnert Schurer, Begüm Tanis, Jan C. Schippers, Maria D. Kennedy
- 16:40 166** Extension of cartridge filter lifespan through chemical cleaning
Irene Ochoa Marchán, Paul Osthuizen, Domingo Zarzo, Patricia Terrero, Rafael Buendía
- 17:00 155** A more effective fouling characterization method for feedwater to reverse osmosis desalination processes
Lianfa Song
- 17:20 256** Sustainable menthol-derived antibacterial compounds for biofouling mitigation in water treatment and desalination systems
Wiame Boumzour, Mohamed Merouane El Hammoumi, Mounir Belbahloul

18:00–19:00 Poster pitches – Foyer Lower Floor

19:45–21:00 Welcome reception – Foyer Lower Floor

Monday Afternoon
22 June 2026

PALMERAIE

Session 4 Advanced wastewater treatment I

- 14:00 43** Custom tailored loose nanofiltration membrane incorporating cationic/zwitterionic polymer for enhanced separation performance
Zeeshan Arshad, Nadeem Baig, Shaikh Asrof Ali
- 14:20 171** A fluorescence-based artificial neural network for online control of organic micropollutants during quaternary wastewater treatment
Antonino Di Bella, Paolo Roccaro, Filippo Fazzino, Erica Gagliano, Domenico Santoro
- 14:40 184** Computer vision-based detection and classification of protozoa for water quality monitoring
Jover Erreyes Piloza, Cosmin Koch Ciobotaru, Ana Maria Jimenez Banzo
- 15:00 105** Ultrafiltration and nanofiltration for the recovery of phenolic/tannic compounds and water from the cork processing wastewaters
Maria Noberta de Pinho, Miguel Minhalma
- 15:20 310** Plant-based coagulants for sustainable water treatment: A review and emerging research perspectives
Mariam Ait Bakader, Abdessamad Belgada, Dina Benzeroual, Zakaria Hazzoumi, Anas Aguelmous

15:40 Coffee break

Session 8 Advanced wastewater treatment II

- 16:00 59** Eco-friendly kaolinite–alginate beads adsorbents for advanced water treatment applications
Abderrahim Rahioui, Rachid Bouhfid
- 16:20 119** An integrated RO–NF process for the concentration of volatile fatty acid mixtures: modeling and simulation
Omar Atiq, Serena Bandini, Marco Giacinti Baschetti
- 16:40 206** Advanced treatment technologies for microplastic and emerging contaminant removal to enhance wastewater quality
Patricia Terrero, Domingo Zarzo, Clara Calvo, María del Pilar Gómez, Daniel Prats, María José Moya, Samuel Núñez
- 17:00 262** Enhancing PFAS removal: Innovative plasma-treated TiO₂ photocatalysts on Unisol membranes for advanced water treatment
Somaiyeh Allahyari, Nader Rahemi, Mohammad Alizadehfard
- 17:20 212** Non-conventional water resources in agriculture: advances, challenges and practical recommendations
Patricia Terrero, Domingo Zarzo, Clara Calvo, María del Pilar Gómez, Francisco José Maestre

Monday
22 June 2026

POSTERS

Poster Presentations

Available throughout the conference from June 22nd to June 25th
in the Exhibition Area

- 6 Sustainable pretreatment strategies for desalination using recycled date palm fiber waste
Yassine Elyakoubi, Amine Tilioua
- 65 Renewable energy integration and salinity gradient power recovery for sustainable desalination in southern Morocco
Fatima Azia, Mohamed Essalhi, Otman Abida, Abdelkader Boulezhar, Hanane Ait Lahoussine Ouali
- 83 Hydrodynamic control of bubble size in flotation-based PFAS removal from drinking water
Florian Klapal, Mark W. Hlawitschka
- 90 CTA-HF SWRO membrane—establishing a new industry benchmark in operational durability and performance efficiency
Ahmed Radwan, Toshitaka Tanaka
- 95 Salinity gradient power for a sustainable future: Insights from reverse electrodialysis
Mohamed Khayet, C. García-Payo, L. García-Fernández, D. Barrera-Ariza, A. Ruiz-García, D. Suárez-Alonso, I.L. Martín-Tougui, J. Contreras-Martínez, E. Guillen-Burrieza
- 101 Nanocarbon-based coating for graphite electrodes: characterization and electrochemical desalination performance for water treatment
Anissa Aouni, Samar Faïdi
- 102 Electrocrystallization as a sustainable approach for metal recovery from secondary battery wastewater
June-Seok Choi, Linitho Suu, Joowan Lim, Youngkwon Choi
- 120 Closing the ion-exchange loop: Regenerating HCl and NaOH from industrial waste eluates using EDBM-based process
Marek Bobák, Maro Groík, Jan Filák
- 122 Seawater desalination in Eastern Scheldt, The Netherlands: a challenge in a cold climate and Natura2000 waterbody
Timon Rijnaarts, Teun De Zeeuw, Jannes Van Hove, Tim Van Dijk, Friso Snijders, Patrick van der Wens, Jasper Verberk
- 124 Using boron as indicator for arsenite removal in BWRO
Timon Rijnaarts, Tim Van Dijk, Friso Snijders, Roy Duijnmaijer, Patrick van der Wens, Teun De Zeeuw
- 127 A holistic approach to planning, design, and lifecycle management of large-scale water networks: A case study from Dubai
Vassilis Deligiannis, Imad Makhzoumi, Evdokia Fotiadou
- 130 Flow and evaporation heat transfer characteristics of falling film around non-circular horizontal tubes under MED conditions
Jiakang Yao, Yan Luo, Lu Tao, **Xue Chen**, Shengqiang Shen



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Monday
22 June 2026

POSTERS

- 134** Eco-friendly TiO₂ for ceramic wastewater membranes
Fatimaezzahra Oujaha, Brahim Achiou, Saad Alami Younssi, Mohamed Ouammou
- 143** Development of polycarbazole-based functional ceramic membranes for water treatment
Sara Ouardi Idrissi, Dounia Beqqour, Saad Alami Younssi, Adiba Rais, Brahim Achiou, Mohamed Ouammou
- 144** Comparison of standard vs. custom RO plant designs: Advantages and disadvantages
Haytham Abdelfatah, Eli Oklejas
- 146** Development of MXene nanomaterial-based nanofiltration membranes for water and wastewater treatment
Nouhaila Makrouni, Manal Idgharnane, Brahim Achiou, Dounia Beqqour, Mohamed Ouammou, Saad Alami Younssi
- 156** Is it feasible to harvest salinity energy profitably?
Lianfa Song
- 157** Performance of reverse osmosis desalination is controlled by thermodynamic restriction
Lianfa Song
- 158** Using salinity gradients as an energy source to produce hydrogen
Valeriy Knyazhev
- 165** Numerical investigation of steam condensation and liquid film dynamics in inclined tubes under marine operating conditions
Yali Guo, Minle Bao, Shenglin Quan, Qinggang Qiu, Luyuan Gong, Shengqiang Shen
- 185** Effect of temperature on microfiltration membranes based on a mixture of perlite and micronized phosphate
Marouane Boukhari, Dounia Beqqour, Adiba Rais, Mohamed Ouammou, Brahim Achiou, Saad Alami Younssi
- 214** Potential of Cs_xK_{1-x}NbO₃ ferroelectric materials for desalination applications: structural, dielectric, and functional study
Omar Zahot, Taoufik Garmim, Lahcen Soussi, Chaimae Louardi, Moustapha Bouzidi, Nouhaiyla Benaiyssa, Mouynir Belbahyloul, Marouane El Hammoumi, Abdelhadi El Bachiri, Ahmed Louardi
- 220** Artificial intelligence for seawater desalination optimization: Moroccan context
Fedwa Essannouni, Bouchra Douich
- 234** Renewable energy and desalination integration as a sustainable approach
Jamel Orfi, Raed Sherif, Musaad AlFaleh
- 237** Photo-thermal membrane distillation for desalination
A. Askir, S. Díaz-Luz, F. Aziz, C. García-Payo, Mohamed Khayet
- 251** Design and engineering of nano-hydroxyapatite-based ceramic membranes for superior wastewater treatment performance
Oussama Salhi, Mohamed Ouammou, Abdellah Aaddane, Jamal Bennazha, Saad Alami Younssi

Monday
22 June 2026

POSTERS

- 255** Sustainable seawater pretreatment: biofloculant performance optimized via statistical and AI approaches
Mounir Belbahloul, Mohamed Anouar, Asmaa Dghoughi, Asmaa Msaad, Imane Souhil, Abdelhadi Elbachiri, Mohamed Merouane El Hammoumi
- 257** Design-guided high-entropy alloys for electrochemical PFAS and contaminant removal in desalination
Sahar Nazari, Mohammad Alizadehfard
- 258** Advancing water, energy, and environmental circularity
Mohammad Alizadehfard, Sahar Nazari, Ensieh Taheri, Pedram Sadr
- 261** AI optimization of membrane cleaning in desalination and wastewater treatment facilities
Pedram Sadr, Mohammad Alizadehfard
- 281** Design of a small scale filter media system for seawater pretreatment prior desalination
Youssef-Amine Boussouga, Abdessamad Belgada
- 297** Manufacturing low-cost membranes from HIPS recycled
M.I. Iborra-Clar, A. Iborra-Clar, J.A. Mendoza-Roca, J.L. Soler-Cabezas, A.H. Sadeq
- 311** Fabrication and characterization of novel tubular microfiltration ceramic membranes derived from Moroccan geo-materials
Amine Ezzahi, Atif Bendehhou, M. Bouhria
- 312** Bringing selectivity to liquid mining: A DFT study of sodalite zeolite (SOD) for lithium recovery from seawater brine
Najat Chafri, Fatima Zohra Charik, Abdessamad Belgada, Anass Sibari
- 313** Sustainable valorization of Ulva lactuca into high-capacity biochar for efficient removal of mordant orange dye from wastewater
Safa Nouaa, Rachid Aziama, Amina Soudani, Fouad Sinana, Mohamed Chiban

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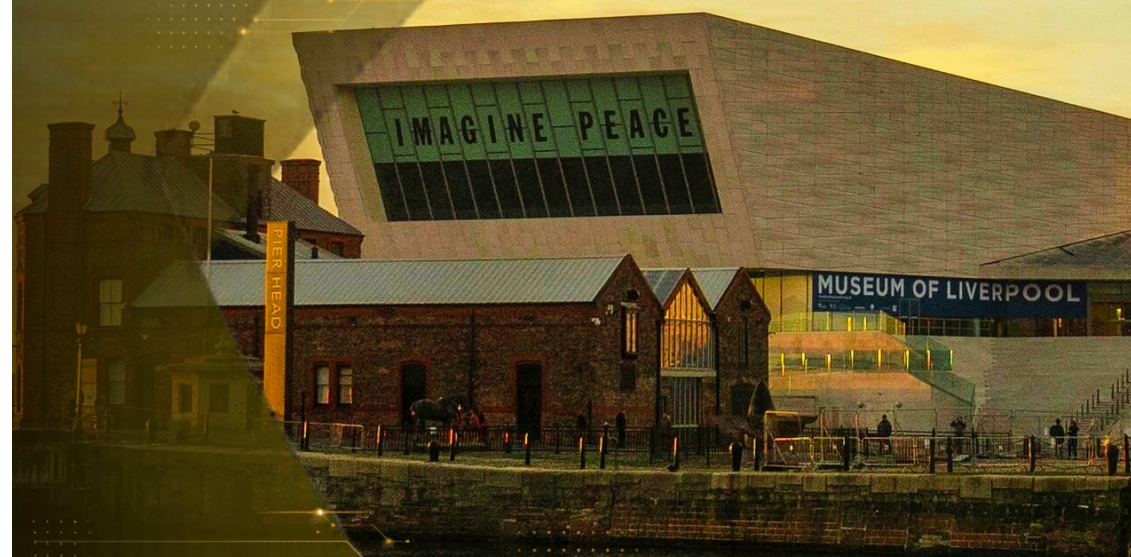
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ANDRITZ

Tuesday Morning

23 June 2026

SIRWA

8:00 Registration starts

9:00 Official opening

Master of ceremonies: *Prof. Fatima Zohra Charik*, Hassan II University of Casablanca

- 9:00 *Minister Azzedine El Midaoui* of the Ministry of Higher Education, Scientific Research, and Innovation
- 9:15 *Prof. Saad Alami Younssi*, Hassan II University of Casablanca
- 9:20 *Olga Sallangos*, European Desalination Society, President
- 9:25 *Tarik Hamane*, ONEE, Director General, Titanium Sponsor
- 9:35 *Eli Oklejas*, FEDCO, CEO, Titanium Sponsor
- 9:45 *Dr. Ahmed Znibar*, OCP Green Water, Managing Director
- 10:00 *Dr. Hicham Fenniri*, IWRI-UM6P, General Manager

10:15 *Miriam Balaban*, European Desalination Society, Secretary General

11:00 Walk around the exhibition and coffee break

**11:40 Panel session Advancing Sustainable Desalination in Morocco:
Innovation, Energy Efficiency, and Integrated Water Management**
Co-organised by EDS, IWRI, OCP Green Water and ONEE.

Moderator: *Prof. Fatima Zohra Charik*, Professor and researcher in Desalination and Water Treatment, (ENS-UH2C) and Head of Chemistry Platform at the Innovation City (CITT-UH2C)

Mr. Khalid Tahri, Planning Director at Water Branch, National Electricity and Water Office, ONEE, Morocco

Lamia Housni, Director, Business Development, OCP Green Water (OGW)
Overview of existing projects of desalination and water reuse in Morocco

Prof. Menachem Elimelech, Nancy and Clint Carlson Professor, Rice University, USA
Cost and energy reduction in desalination systems and brine management and valorization

Prof. Abdessamad Belgada, Professor and Researcher, Advanced Desalination and Water Technologies, IWRI-UM6P
Innovative technologies in desalination: CMF pretreatment for SWRO-OGW Safi case study

Prof. Tarik Chfadi, Expert in Applied Economics for Water Resource Management
Vision for integrated water management in Morocco

12:50 Lunch

Tuesday Afternoon

23 June 2026

OLIVERAIE

Session 9 Brine valorisation III

- 13:50 199** State-of-the-art nanofiltration and electrodialysis technologies for direct lithium extraction from SWRO brine
El Houssine Ghoulam, Abdessamad Belgada, Rachid Bouhfid, Youssef-Amine Boussouga
- 14:10 125** Can conventional desalination technologies adapt to recover critical elements from the EoL lithium-ion battery recycling industry?
Marco Malaguti, Simón Díaz-Quezada, Michelle Trinh Ho, Sofie Kjølby Niss, Antonio Peñas-Sanjuán, Pedro Navarrete-Segado, Aamer Ali, Cejna Anna Quist-Jensen
- 14:30 195** CO₂ recovery from reverse osmosis brines through membrane contactors
Lorenzo Ventimiglia, Giuseppe Battaglia, Maria Jose Lujan Facundo, Fabrizio Vicari, Maria Amparo Bes Pia, Alessandro Tamburini, Andrea Cipollina, Jose Antonio Mendoza Roca, Giorgio Micale
- 14:50 201** Energetic evaluation of advanced pressure-driven desalination technologies for efficient industrial brine concentration
Christine Kleffner, Tim Santen, Gerd Braun, Yuliya Schiesser
- 15:10 245** Nutrients recovery from wastewater centrate via struvite precipitation | with brine-derived magnesium hydroxide
Ferdinando Domenico Miciletta, Samuel Navajas-Valiente, José Antonio Mendoza Roca, Maria Amparo Bes Pia, Giuseppe Battaglia, Alessandro Tamburini, Andrea Cipollina

15:30 Coffee break

Session 13 Brine valorisation IV

- 15:50 278** Water and ion transport properties of high-pressure nanofiltration membranes for brine treatment
Seoyeon Lee, Minji Je, Yeosong Jeong, Juyeong Lee, Yongjun Choi, Sangho Lee
- 16:10 140** Pilot scale production of magnesium carbonates from desalination brines
Michela Cardella, Giuseppe Battaglia, Giuseppe Lodato, Fabrizio Vicari, Alessandro Tamburini, Andrea Cipollina, Giorgio Micale
- 16:30 218** Evaluation of low salt rejection RO membranes prepared by controlled oxidation of SWRO membranes
Almoatasem Alaoui, Gaetan Blandin
- 16:50 37** Comparative life cycle assessment of a brine treatment plant in Morocco under different energy sources
Yassine Soumbati, Zeeshan Arshad, Almotasembellah Abushaban, Youssef Belmabkhout, Mohamed Chaker Necibi

Tuesday Afternoon

23 June 2026

ORANGERAIE

Session 10 Energy efficiency

- 13:50 225** Design and implementation of the DESALRO 2.0 ® concept: The most energy efficient seawater reverse osmosis desalination plant
Baltasar Peñate-Suarez, J. Antonio de la Fuente-Bencomo, Sigrid Arenas-Urrea, Lourdes García-Rodríguez, Rafael González-Almenara
- 14:10 69** Efficiency of reverse osmosis plants from a pumping equipment perspective
Isaac Vera Olivares, Miguel Herrero, Jorge Muñagorri
- 14:30 211** High-pressure pumps – Total cost of ownership analysis
Sebastian Liebs
- 14:50 121** Use of variable speed drives on main pumps in large SWRO plants: Technical and economical considerations
Antonio de la Torre
- 15:10 51** Next generation high efficiency energy recovery device
Rolando Bosleman, Juan Cifuentes

15:30 Coffee break

Session 14 Solar desalination / Energy recovery systems

- 15:50 84** Design and testing of a solar desalination unit for emergency conditions
Gabriele Copetti, Francesco Picarelli, Matteo Morciano, Matteo Fasano, Alberto Tiraferri
- 16:10 241** Can off-grid desalination scale globally? Insights from a techno-economic and life-cycle analysis
Varinia Felix, Matthew Malaker Shingler, Robert Norwood, Jeb Shingler, Reema Shinh, Kerri Hickenbottom
- 16:30 242** Active energy recovery devices to enable lower power consumption — MPE 70 operation results
Sebastian Liebs, Francisco Jimenez Castellanos
- 16:50 298** Analysis of energy consumption and efficiency standardization for hydraulic energy recovery devices
Eli Oklejas
- 17:10 96** Comparative evaluation of pressure-exchange and turbine ERDs under varying feed-flow conditions
Haytham Abdelfatah, Eli Oklejas

Tuesday Afternoon

23 June 2026

RESERAIE

Session 11 Osmotic processes for brine concentration

- 13:50 230** Techno-economic assessment of high-recovery seawater reverse osmosis (SWRO) based on osmotically assisted reverse osmosis (OARO)
Juan I. Pinaglia-Villalón, Rafael González-Almenara, Guillem Gilabert-Oriol, Rolando Bosleman, Juan Cifuentes, Lourdes García-Rodríguez
- 14:10 305** Lessons learned: Delivering high-recovery brine through osmotically assisted reverse osmosis (OARO)
Keith Lampi
- 14:30 303** Osmotically assisted reverse osmosis for high-salinity brine management: Recent advances and future technology development needs
Basel Abusharkh
- 14:50 109** Brine concentration with low salt rejection reverse osmosis membranes
Maria Perez-Macia, Guillem Gilabert-Oriol, Angels Tejero, Claudia Niewersch, Caleb Funk, Steve Jons
- 15:10 239** Maven brine mining plant – world 1st commercial OARO project: HPP & ERD on-site performance results
Georg Herborg, Ilker Akbas, Sebastian Liebs

15:30 Coffee break

Session 15 Fouling and scaling / Crisis management

- 15:50 254** Impact of renewable-driven intermittent operation on scaling in falling film evaporators: role of tube material selection
Heike Glade, Tom Ruiter
- 16:10 24** Techno-economic impacts of antiscalant selection on RO membrane performance in inland desalination systems
Ali Alshami, Christopher Buelke
- 16:30 113** The limitation of saturation indices in antiscalant projection software
Max Fazel, Daniela Vidal, Mike Sinfield
- 16:50 203** Polymeric antiscalants in desalination: Characterization and biofouling potential in seawater
Maria Camila Albarracin, Graciela Gonzalez-Gil, Johannes Vrouwenvelder
- 17:10 309** Managing the unexpected: Response, challenges, team coordination and recovery following the Paphos Desalination Plant fire
Erina Caramondani, Ioanna Agathangelou, Eleonora Caramondani

18:00–19:00 EDS Young & Emerging Professionals Meet-Up

Join fellow young and emerging professionals for informal networking over drinks at the Zest Bar

Tuesday Afternoon

23 June 2026

PALMERAIE

Session 12 Novel materials for desalination

- 13:50 25** Polymers of intrinsic microporosity for high performance desalination
Mahmoud Abdulhamid
- 14:10 79** Enhanced desalination performance of a metal-organic framework@activated carbon hybrid material
Imane Souhil, Mohamed Anouar, Asmaa Msaad, Oumaima Azhar, Amal Adli, Yazid Zayd Abalhate, Youness Benaarif, Adil El Achhab, Younes El Goumi, Asmaa Dghoughi, Youssef Lghazi, Mounir Belbahloul
- 14:30 46** Thermoplastic piping systems for SWRO: Enhancing reliability, durability, and lifecycle performance
Markus Ebster
- 14:50 175** Amphoteric chitosan/PVA beads with lignin nanotriangles for enhanced water desalination
Asmaa Dghoughi, Asmaa Msaad, Mohamed Anouar, Imane Souhil, Abdelhadi Elbachir, Mounir Belbahloul
- 15:10 315** Toward a Sustainable Future with Membrane Sciences
Saad Alami Younssi

15:30 Coffee break

Session 16 Advancements in pretreatment I

- 15:50 56** Evaluation of optimal operational conditions of a multimedia filter for seawater pretreatment
Ratul Das, Yasmeen Nadreen, Graciela Gonzalez Gil, Ruben Gomez, Jeremy Biddle, Johannes Vrouwenvelder
- 16:10 259** Variable-property mass transfer modeling to optimize ultrafiltration pretreatment for high-recovery RO desalination
Mohammad Alizadehfard, Nader Rahemi, Somaiyeh Allahyari, Pedram Sadr
- 16:30 111** Data-driven optimization of ultrafiltration operations using DuPont's ultrafiltration operations advisor
Christian Staaks, David Romero-Puyal, Gerard Massons, Guillem Gilabert-Oriol, Leaelaf Hailemariam, Sylvia Insogna, Santhosh Ramalingam, Ankit Gupta, Amrita Panjwani
- 16:50 226** Assessment of next generation high area ultrafiltration membrane as seawater desalination pretreatment
Daniel García-Huertas, Michael Hoffmann, Christian Staaks, Guillem Gilabert-Oriol, Olga Ferrer Mallén
- 17:10 159** Hybrid ferrate coagulation/UF pretreatment for biofouling control during algal blooms
Abdullah Alshahria, Mohammed Obaid, Abdulah Dehwah, Thomas Missimer, Muhammad Ali, Noreddine Ghaffour

Wednesday

24 June 2026

OLIVERAIE

Session 17 Electromembrane technologies

- 8:30 135** Brine valorization using bipolar membrane electrodialysis: magnesium and calcium scaling with monovalent selective membranes
Daniel Kelly Coto, Ruben Halfwerk, Leonardo Gutierrez, Jan Post, Emile Cornelissen
- 8:50 68** Ladder electrodialysis enables efficient up-concentration of brines and acids
Cong Liu, Ming Tan, Yang Zhang
- 9:10 42** Experimental evaluation of multi-stage, multi-pass (batch) electrodialysis desalination brackish water at pilot plant scale
Jonathan Bessette, Andria Jones, Shane Pratt, Ben Judge, Amos Winter
- 9:30 38** Advancing Morocco's water future through sustainable solar-powered electrodialysis: a simulation-based economic analysis
Basma Bachiri, Mohamed Taky
- 9:50 115** Lessons learned from the operation of the world's largest reversal electrodialysis (EDR) plant for brackish water treatment
Fernando Valero, Pere Emiliano
- 10:10** Coffee break
- 10:30** Panel session **Misconceptions Affecting Social Perception and Acceptance of Desalination** (see p. 32)

Session 21 Novel membranes

- 11:40 188** Zeolite X/polystyrene mixed matrix membrane layer deposited on pyrophyllite support for efficient dye removal
Sanaa Adlane, Jamyla Naim, Manal Idgharnane, Ahlam Essate, Brahim Achiou, Abdellah Aaddane, Mohamed Ouammou, Saad Alami Younssi
- 12:00 132** Low-cost graphene oxide composite membranes cross-linked with urea: a sustainable solution for textile dye removal
Manal Idgharnane, Jamyla Naim, Sanaa Adlane, Majda Breida, Mohamed Ouammou, Martin Conda-Sheridan, Saad Alami Younssi, Brahim Achiou
- 12:20 60** Electrospun PVDF@MIL-53(Fe) metal organic framework: membranes for potential water treatment
Rachid Bouhfid, Hamza Louhibi
- 12:40 91** Performance and energy implications of cellulose tri-acetate hollow fiber membranes in seawater reverse osmosis
Ahmed Radwan, Ratul Das
- 13:00** Lunch

Wednesday

24 June 2026

ORANGERAIE

Session 18 Membrane distillation I

- 8:30 98** Study of a simultaneous cooling and desalination system using CO₂ as a refrigerant and AGMD
Paul Byrne, Salma Roussel, Mostafa Dahbani, Thierry Maré
- 8:50 172** Sustainable concentration of brine from a reverse osmosis plant through the integration of solar membrane distillation
Isabel Requena, Alba Ruiz-Aguirre, Juan Antonio Andrés-Mañas, Juan Diego Gil, Guillermo Zaragoza
- 9:10 170** Breaking the 200 g/L barrier in membrane distillation: Experimental performance of an integrated solar-driven pilot
Frederico Felizardo, Alejandro Bueso, Maria Helena Novais, Guillermo Zaragoza, Pedro Horta
- 9:30 194** Parameters affecting membrane distillation performance – Effect of temperature and flow rate in DCMD
Shara Pérez Mateos, Carmen María Sánchez-Arevalo, María José Luján-Facundo, Silvia Álvarez-Blanco, Beatriz Elena Cuartas-Urbe, María Cinta Vincent-Vela
- 10:10** Coffee break
- 10:30** Panel session **Misconceptions Affecting Social Perception and Acceptance of Desalination** (see p. 32)

Session 22 Membrane distillation II

- 11:40 80** Harnessing light for water: Photothermal membrane distillation for sustainable desalination
Mohamed Khayet, A. Askir, S. Díaz-Luz, C. García-Payo, F. Aziz
- 12:00 202** Conventional and emerging membrane technologies for effective treatment of textile finishing wastewater: Differences and advantages
Shara Pérez Mateos, Carmen María Sánchez-Arevalo, Esperanza M. Garcia-Castello, Antonio Rodriguez-Lopez, María Cinta Vincent-Vela, Beatriz Elena Cuartas-Urbe
- 12:20 107** Coupled thermodynamic analysis, process modeling, and DCMD experiments for sustainable water recovery from steel industry effluent
Hussein Fairousha Sulaiman, Simon Díaz-Quezada, Imen Bousrih, Amer Ali, Cejna Anna Quist-Jensen
- 12:40 233** Performance enhancement of a typical air GT by waste heat recovery to drive a sCO₂ Brayton cycle and membrane distillation unit
Jamel Orfi, Mohammed Raihan, Abdullah Olaiqa, Abdullah Al-Hamdan, Hassan Alshehri
- 13:00** Lunch

Wednesday

24 June 2026

RESERAIE

Session 19 Innovations in reverse osmosis

- 8:30 247** Survival analysis for the dynamic prediction of gypsum scaling risk in batch reverse osmosis systems
Natasha Wright, Ali Abdelkawi
- 8:50 17** A stepwise approach to use nanofiltration membranes instead of RO to produce drinking water at high recoveries
Alexei Pervov, Vyacheslav Dzyubenko
- 9:10 52** Energy recovery in low, high, and ultra high-pressure reverse osmosis systems
Rolando Bosleman, Juan Cifuentes
- 9:30 41** Pyxis Lab — Advanced online monitoring solutions for reverse osmosis systems
Yoann Fournier, Diana Cruz
- 9:50 266** Enhancing SWRO sustainability: Energy optimization and fouling control with TFN high-rejection membranes and LDP feed spacers
Alvaro Lagartos
- 10:10** Coffee break
- 10:30** Panel session **Misconceptions Affecting Social Perception and Acceptance of Desalination** (see p. 32)

Session 23 Brackish water desalination

- 11:40 280** Key performance and energy challenges in small scale brackish water desalination systems
Youssef-Amine Boussouga
- 12:00 235** From pilot-scale operation to technoeconomic and life cycle assessment for hybrid brackish water desalination
Arianna Tariqi, Reema Shinh, Varinia Felix, Vicky Karanikola, Kerri Hickenbottom
- 12:20 87** Yearlong field trial of a brine reuse architecture for point-of-use, reverse osmosis systems
Melissa Brei, Ian Manning, Natasha Wright, Amos Winter V
- 12:40 123** Brackish water with arsenic: comparing aerobic and anaerobic treatment
Timon Rijnaarts, Tim Van Dijk, Friso Snijders, Roy Duijnmaijer, Teun De Zeeuw, Patrick van der Wens, Jasper Verberk
- 13:00** Lunch

Wednesday

24 June 2026

PALMERAIE

Session 20 Advancements in pretreatment II

- 8:30 277** Innovative pretreatment processes for next-generation SWRO desalination plants
Abdessamad Belgada
- 8:50 62** Redefining SWRO pretreatment through ceramic membrane technology
Ernst Lutz, Patrick Buchta, Daniel Arias, Douglas Espin
- 9:10 243** An innovative and sustainable pretreatment design for flexible and robust operation
Javier Cañas Jimenez, Jesus Gimenez-Rico, Luis Miguel Garcia, Belen Gutierrez
- 9:30 274** Material selection and design challenges of GRP filtration housings for seawater RO pretreatment
Oren Heymans
- 9:50 306** Upstream pretreatment for reverse osmosis: impact, design optimization, and maintenance to ensure process durability amidst raw water fluctuations
Mohamed Amine
- 10:10** Coffee break
- 10:30** Panel session **Misconceptions Affecting Social Perception and Acceptance of Desalination** (see p. 32)

Session 24 Advancements in pre- and post-treatment

- 11:40 272** Submerged UF on the rise again: DuPont Inge ultrafiltration technology in submerged mode
Christian Staaks, M. Hoffmann, M. Riemer, M. Heijnen
- 12:00 181** Ultrafiltration and microfiltration: Going beyond the standard operation and maintenance solutions to extend membrane life
Dan Freeman, Raul Gonzalez, Fiona Finlayson, Javier Nicolas Martinez, Natasha O'Hara
- 12:20 100** Next-generation post-treatment: Driving efficiency and resource recovery
Nicholas Nelson, Bouazza Ihyane, Jan Stemann
- 12:40 75** Optimizing calcite contactor remineralization process: a techno-economic framework for desalinated drinking water
Bouazza Ihyane, Jan Stemann, Nicholas Nelson
- 13:00** Lunch

Wednesday

24 June 2026

OLIVERAIE

Session 25 Minimum and zero liquid discharge (MLD, ZLD) schemes

- 14:00 27** Advanced treatment of contaminated groundwater: achieving near-zero liquid discharge through a multibarrier approach
*Lorenzo Craveri, **Erica Bertozzi**, Marco Malaguti, Gabriele Copetti, Davide Cerrina, Alessandro Trombetta, Valentina Rosetti, Alberto Tiraferri*
- 14:20 168** Scaling-free gypsum and water recovery from pulp and paper wastewater via membrane crystallization
Imen Bousrih, Simón Diego Díaz Quezada, Cejna Anna Quist-Jensen, Aamer Ali
- 14:40 229** Universal electrified pretreatment system for high recovery of brines
Andrea Achilli, Mervin Lim, Tenzin Phakdon, James Farrell
- 15:00 215** Smart groundwater complete solution up to MLD
George Brik, Tamara Merjaneh
- 15:20 213** Energy and cost optimization in CCRO and FO-RO water reuse systems
*Sebastian Liebs, **Georg Herborg**, Amogh Sharma*

15:40 Coffee break

Session 29 Ceramic membranes

- 16:00 301** Bifunctional ceramic membranes from lay and spent coffee grounds for selective removal of pharmaceuticals and textile dyes
***Raja Ben Amar**, Feryelle Aouay, Afef Attia, Lasâad Dammak*
- 16:20 250** Enhancement of microfiltration performances of pozzolan membrane by incorporation of micronized phosphate and its application for microfiltration of aluminum chloride suspension and wastewater of tannery industry
Dounia Beqqour
- 16:40 252** Low-cost geomaterial-based membranes in service of seawater desalination
***Brahim Achiou**, Saad Alami Younssi, Mohamed Ouammou, Mohamed Bouhria, Abdellah Aaddane, Jamal Bennazha*
- 17:00 152** Development of a low-cost pozzolan-based ultrafiltration membrane coated with purified red clay for dye removal
***Jamyla Naim**, Sanaa Adlane, Manal Idgharnane, Brahim Achiou, Kateryna Fatyeyeva, Abdellah Aaddane, Mohamed Ouammou, Saad Alami Younssi*
- 17:20 270** Decentralized desalination systems for resilience under climate and environmental emergencies
***Omar Elmaraghy**, Patrick Buchta*

20:00 Gala event at Kasbah Palm, Palmeraie

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Session 26 Reverse osmosis membranes

- 14:00 110** New seawater fouling resistant low-energy reverse osmosis element: Introducing FILMTEC™ SW30XLE-400/34 membrane element
*David Arias, **Guillem Gilabert-Oriol**, Gerard Massons, Maria Perez-Macia*
- 14:20 33** Confined water channels in polyamide RO membranes for energy-efficient desalination
Harutoki Shimura
- 14:40 174** Correlating pressure drop in spacer-filled RO channels with membrane deformation
***Luigi Ranieri**, Bastiaan Blankert, Cristian Picioreanu*
- 15:00 205** Active batch reverse osmosis: Next-generation membrane desalination for high-efficiency produced water reuse
***Christine Kleffner**, Quantum Wei, Arian Edalat, Daniel Bell*
- 15:20 182** Counter-current cascades of RO membranes:
A tool to enhance performance and overcome membrane ageing in desalination
***Youness Kouzi**, Fatima Zohra Charik, Saad Alami Younssi, Murielle Rabiller-Baudry*

15:40 Coffee break

Session 30 Seawater intakes

- 16:00 48** Why FEED design of seawater intakes is the key to prevent future head loss
***Harry Polman**, Hugo Costa, Mario Valente*
- 16:20 72** Tunnelling solutions for water intakes and brine outlets in desalination plant construction
Raphael Sistermans
- 16:40 210** Transition Box remediation: a modular approach to underwater infrastructure renewal
***Irene Ochoa Marchán**, Domingo Zarzo, Patricia Terrero, Rafael Buendía*
- 17:00 77** Maintaining intake flow: Cleaning and inspection of seawater intake pipelines for desalination plants
Pilar Vera-Rodriguez**, Simon Bell, **Paul Newbury
- 17:20 9** Recent designs of marine installations for desalination plants in Morocco
***Eloy Pita**, Pablo Pita, Mario Sanchez-Barriga, Liliana Quispealaya, Lucas Martin, Alberto Rivas*
- 17:40 34** Early warning for marine biofouling risks at seawater intake of coastal SWRO plants
***Harry Polman**, Patricia González, Kasper Kusters, Sandra van Amsterdam*

20:00 Gala event at Kasbah Palm, Palmeraie

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24 June 2026

RESERAIE

Session 27 Desalination in policies and societal impacts

- 14:00 39** Public acceptance of desalinated and reclaimed water: Evidence from Spain
Sofia Tirado Sarti
- 14:20 145** Public perceptions and social acceptance of seawater desalination for drinking water in Morocco
Lina Migliore, Tarik Chfadi
- 14:40 116** Integrating desalination and indirect potable reuse for urban water resilience in Mediterranean cities
Jordi Molist, Antoni Munné
- 15:00 275** Challenges and opportunities of blending desalinated water with conventionally treated water for a stable potable water supply – A UK focused case study
Jawad Mustafa, Alex Mead, Abraham Negaresh
- 15:20 177** Integrating geopolitical risk into desalination planning for Mediterranean water security
Darío Salinas Palacios, Sofia Tirado Sarti

15:40 Coffee break

Session 31 New concepts for desalination

- 16:00 57** Gravitational vapor compression desalination (GVCD) – a breakthrough for this millennia
Ratul Das, Ruben Gomez, Khaled Bandar Alsaud, Eusebi Nomen, Thomas Altmann
- 16:20 74** Development and experimental testing of a sorption-based desalination + cooling system
Valeria Palomba, Antonio Fotia, Matteo Calò, Walter Mittelbach, Andrea Frazzica
- 16:40 136** Binary LiCl–CaCl₂ composite adsorbents for low-temperature adsorption desalination
Antonio Fotia, Andrea Frazzica, Valeria Palomba, Vincenza Brancato, Roberta De Salvo
- 17:00 217** Flocean One – The world's first large scale subsea desalination demonstrator
Tor-Anders Rusvik, Christian Abellsson
- 17:20 61** Subsea desalination energy advantage: a comparative analysis with terrestrial RO facilities
Harith Alomar, Matias Cornejo, Antoine Vuillermet, Hugo Harstad
- 17:40 126** Floating power/water barges for remote islands
Vassilis Deligiannis, Evdokia Fotiadou

20:00 Gala event at Kasbah Palm, Palmeraie

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Wednesday

24 June 2026

PALMERAIE

Session 28 Special session for the EXBRINER project

- 14:00 294** Development of MOF-embedded cryogels for advanced water treatment
Maria Iliopoulou, Despina Fragouli
- 14:20 285** Photothermal graphene-based membranes meets sunlight: Efficient brine valorization
Sergio Santoro, Antonio Politano, Roviell Berhane Zegeye, Alula Selomon Embaye, Loredana De Bartolo, Efrem Curcio
- 14:40 288** Influence of objective selection on VMD module design and global performance: A comparative study between permeate flowrate vs. flux-based optimization
Indira Chimanlal, Gina Alfonso, Aras Ahmadi, Corinne Cabassud
- 15:00 286** Hybrid photothermal membrane distillation-selective electrodialysis for enhanced lithium recovery from hypersaline brines
Roviell Berhane Zegeye, Ramato Ashu Tufa, Sergio Santoro, Bruno Marco Inzillo, Marco Aquino, Pietro Argurio, Efrem Curcio

15:40 Coffee break

Session 32 Special session for the EXBRINER project

- 16:00 289** Magnesium sulphate recovery from multistage seawater nanofiltration brine using photothermal membrane crystallization
Asif Saud, Bruno Marco Inzillo, Sergio Santoro, Aamer Ali, Efrem Curcio, Cejna Anna Quist Jensen
- 16:20 236** Effect of temperature on NaOH production and energy consumption from seawater brines by using electrodialysis with bipolar membranes
Anastássia Lima, Júlio Lopes Rodriguez, Elena Guillen Burrieza, José Luis Cortina Pallas
- 16:40 291** Hypersaline brine valorization using cation exchange membrane: Experimental and modelling approach
Federico Dei Sommi, Roman Kodým, Jaromír Hnát, Karel Bouzek
- 17:00 292** 3D printing of profiled ion-exchange membranes
Mekhna Venu, Claudia Galinha, Sylwin Pawlowski, Joao Crespo
- 17:20 293** Organic fouling of anion exchange membranes
Alula Selomon Embaye, Antonella Piscioneri, Maria Penelope De Santo, Ramato Ashu Tufa, Sergio Santoro, Efrem Curcio, Loredana De Bartolo

20:00 Gala event at Kasbah Palm, Palmeraie

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Wednesday

24 June 2026

SIRWA

10:30–11:40

Panel session Misconceptions Affecting Social Perception and Acceptance of Desalination

Co-organised by the Expert Group on Desalination of Water Europe and EDS



Moderators:

Olga Ferrer, Acciona Water Division and Water Europe
Guillermo Zaragoza, CIEMAT and Water Europe

Opening Remarks:

Olga Sallangos, Dhekelia Desalination Plant Manager and President of the European Desalination Society

Panelists:

Lina Migliore, Researcher of the US Fulbright Program, USA
Sofia Tirado, Researcher of the Real Instituto Elcano, Spain
Charaf Bahij, Head of the Capitalization and Technology Watch Division, ONEE, Morocco
Silvia Gallego, Sales Manager at LG Water Solutions and Board Member of AEDyR
Mahmoud Hafsi, Consultant–Expert in desalination and water treatment



Driving Sustainability at the Water-Energy Nexus



Water

Desalination
Filtration / Heavy Metal Removal
Wastewater Reuse



Energy

Geoechange
Cogeneration
Renewable Energy Sources
Heat Recovery



Cathodic Protection

Sacrificial Anodes
ICCP
Monitoring Systems



Biogas

Biogas Plants
Biofertilizers

Thursday
25 June 2026

OLIVERAIE

Session 33 Simulation / Machine learning

- 9:20 248** Enhancing RO system design: Integration of arbitrary molecule rejection simulation for PFAS and emerging contaminants
Harish Warsono, Takumi Kobayash
- 9:40 133** Machine learning-enabled digital twin for autonomous optimization of containerized reverse osmosis desalination systems
Hicham Grari, Bouchra Mahrouch, Karim Kadmiri, Idriss Azhari
- 10:00 63** Interpretable data-driven modeling for forward osmosis: water flux prediction and parameter interaction analysis
Chaima Aboulkacem, Samya Sigue, Mohammed Seaid, Nabil El Mocayd, Almotasembellah Abushaban, Youssef Belmabkhout, Mohamed Chaker Necibi
- 10:20 219** A physics-informed hybrid machine learning framework for forward osmosis water-flux prediction under uncertain membrane parameters
Samya Sigue, Chaima Aboulkacem, Almotasembellah Abushaban, Youssef Belmabkhout, Mohamed Chaker Necibi

10:40 Coffee break

Session 37 Thermal desalination

- 11:00 197** Machine learning-based modeling and performance analysis of multi-effect distillation under CSP variability
Alfred Pitia Martin Loro, Aicha Chorak, Bartolomé Ortega-Delgado, Abdelouahid Lyhyaoui, Patricia Palenzuela
- 11:20 141** A sustainable approach to freshwater production: modelling and simulation of a vacuum barometric desalination unit
Sami Own, Adel Nasser, Hector Iacovides
- 11:40 232** Performance analysis of MSF and MED based desalination plants using exergy and actual data
Jamel Orfi, Faisal Abuderman, Seungwon Ihm, Osman Hamed
- 12:00 162** Self-propelled condensation droplets behavior on cantor fractal surface
Luyuan Gong, Yali Guo, Qinggang Qiu, Shengqiang Shen
- 12:20 31** SWAP™: Ultra-low-energy, atmospheric-pressure desalination with high-salinity tolerance
May Akrawi, Hill Kemp, Alkis Strompoulis

Thursday
25 June 2026

ORANGERAIE

Session 34 Green hydrogen

- 9:20 204** Integration of a continuous electrodeionisation process with a desalination plant for UPW production
Simona Maria Asaro, Andrea Culcasi, Dario Grano, Alessandro Tamburini, Giorgio Micale, Andrea Cipollina
- 9:40 151** Water reuse vs. desalination: Technical feasibility, design and economics of ultra-pure water production for green hydrogen
Jan-Hendrik Imholze, Patrizia Moosmann, Stefan Krahl, Jürnjakob Dugge, Karen Stummeyer
- 10:00 128** Production of water of high purity by membrane distillation for renewable hydrogen production
Alba Ruiz Aguirre, Bernardo Ventura, Robinson Johan Ramírez-Gil, Guillermo Zaragoza
- 10:20 169** Liquid entry pressure testing of hydrophobic membranes and perspectives for ceramic membrane distillation
Philipp Nagel, Sebastian Schilling, Heike Glade

10:40 Coffee break

Session 38 Desalination and sustainability

- 11:00 227** Demonstration of a highly sustainable desalination scheme
Mariana Figueira, Lyvia Mendes, Nil Llopart, Germán Santos, Marina Martínez, Marta Ruamayor, Hendrik Swart, Olga Ferrer Mallén
- 11:20 148** Streamlining sustainability: Potential onsite water reuse for data center operations
Kerri Hickenbottom, Reema Shinh, Leila Karimi, Varinia Felix
- 11:40 265** The Enerplage system or how to protect beaches against coastal erosion and producing filtered seawater
Arnaud Ballay, Christelle Breton
- 12:00 299** An introduction to AMTA's New Guideline for Membrane System Safety and Reliability (G-002) for membrane desalination facilities
Doug Eisberg
- 12:20 308** Water Positive: How water stewardship is shaping the next carbon market
Daniele Strongone

Thursday
25 June 2026

RESERAIE

Session 35 Desalination and the environment

- 9:20 94** Seawater corrosion mitigation using plant-derived inhibitors: Electrochemical insight and efficiency
Oumaima Azhar, Imane Souhil, Asmaa Msaad, Mohamed Anouar, Mohamed Merouane El Hammoumi, Abdelhadi El Bachiri, Amal Adli, Yazid Zayd Abalhate, Youness Benaarif, Adil El Achhab, Mounir Belbahloul
- 9:40 108** Desalination brine discharges: Physicochemical characteristics, environmental impacts and valorization strategies
Nawal Sifa, Anas Aguelmous, Abdessamad Belgada
- 10:00 58** Subsea desalination plant brine discharge and environmental impact
Harith Alomar, Matias Cornejo, Antoine Vuillermet, Jo Jernsletten, Hugo Harstad
- 10:20 253** Coupled TELEMAT-3D–TOMAWAC modeling of brine and thermal discharges for optimal outfall–intake design on Atlantic coasts
El Mehdi Chagdali

10:40 Coffee break

Session 39 Regional / case studies

- 23** Brine-based backwash for ultrafiltration systems in seawater desalination: Chtouka (Agadir) plant – case study
Raul Garcia Fernandez, Manuel Alberto López Martín
- 267** Thin-film nanocomposite reverse osmosis membranes for sustainable seawater desalination: The Dakhla SWRO project in Morocco
Alvaro Lagartos
- 139** Demineralization of brackish water for irrigation gardening and dairy sector in the commune of Jraifia
Lahcen Hasnaoui
- 238** Innovative, online biofilm-control solution for SWRO systems producing potable water: A case study from the Arabian Gulf
Dan Freeman, Georgia Skordalou, Ingo Konigs, Javier Martinez, Fiona Finlayson
- 302** Upgrading OCP's SWRO plant in Morocco: A compact i-UF solution
Pedro Otegui

Thursday
25 June 2026

PALMERAIE

Session 36 Plant design and optimization

- 9:20 30** How to design a desalination plant for the safe transport of chemicals
Francisco Javier Lorenzo Moral
- 9:40 55** Optimization methodology for design and performance of SWRO desalination plants
Fernando Javier Suarez Perez
- 10:00 47** Optimization of SWRO performance through single- and multi-OEM membrane hybridization
Ahmed Yousry, Justin Robert, Tariq Nada, Mohammed Haroon Siyeche, Ahmad Alharthi
- 10:20 112** Long term performance of DuPont ultrafiltration at the Limassol desalination plant in Cyprus
Gerard Massons, Guillem Gilabert-Oriol, **Lorena Barbera**, Erineos Koutsakos, Menahem Priel

10:40 Coffee break

Session 40 Plant operation

- 131** SeaQual: Using remote sensing and AI to predict SWDP performance
Alexander Baekelandt, Carlos Laguna Sanchez
- 44** Learning at scale: Shared knowledge and lessons from mega desalination projects
Ramon Rubio de Castro
- 71** Data-driven optimization in large-scale RO facility: a comprehensive case study in operational excellence
Elad Barak, Micha Oestereich

Thursday
25 June 2026

SIRWA

12:40 Innovation Panel session with the finalists of the Miriam Balaban Innovation Award.
Sponsored by ACWA

Moderator: *Carmelo Morgante*, PhD, Joint winner of the Miriam Balaban Innovation Award, Cyprus 2023

12:40 Opening remarks:

12:40 *Carmelo Morgante*, PhD. Joint winner, Cyprus 2023

12:50 *Omar Alaoui Mhamd*, ACWA Country General Manager, Morocco

12:55 Miriam Balaban Innovation Award Finalist Presentations with 5 minutes for Q&A

12:55 *Chris Rose*, Sidon Water IntegroTM. Chemical-free scaling control for RO and desalination.

13:05 *Christine Kleffner*, Harmony De-Salting, USA. Batch desalting for superior performance.

13:15 *Craig Beckman*, Aqua Membranes, USA. 3D printed spacer technology for RO membranes.

13:25 *Girts Ozalins*, Spectromarine, The Netherlands. Preventative bio-fouling platform for operational cost optimisation in SWRO desalination plants.

13:35 *Alexander Baekelandt*, SeaQual, UK. AI-driven raw water quality forecasting.

13:45 Lunch

14:40 Closing ceremony and the announcement of the winner of the Miriam Balaban Award



Miriam Balaban Innovation Award 2026



The Miriam Balaban Innovation Award 2026 sponsored by ACWA in partnership with European Desalination Society, is open to everybody in industry, academia and R&D Centres. The award honours innovative solutions in the field of desalination, sustainable energy and circular economy processes. The winner is selected by a panel of leading experts in Academia and the Desalination Industry.

The winning idea will be given the opportunity of further development with ACWA.

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Contact: Mrs Maryem Rachidi

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Contact: Isaac Vera Olivares

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Contact: Elena Reyna, Marketing Director

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Contact: Gertru Lama

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Marketing & Communications Specialist

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Contact: Evangelos Kantilaftis

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Contact: David Garcia

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Contact: Markus Ebster, Sales Manager

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Contact: Curtis Calliver, Head of Marketing
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Contact: Diana Cruz

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Moroccan Membrane and Desalination Society (SMMD) is a Moroccan Non-Governmental Organization (NGO) and Non-Profit Organization (NPO), created in May, 2005 by group of academic and industrial researchers in membrane technologies and desalination.

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Spectromarine

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Contact: Girts Ozolins, CEO

Spectromarine develops real-time water quality monitoring sensors for desalination plants. Our technology enables early fouling detection, improved process control, and optimized membrane performance—helping operators reduce chemical use, increase efficiency, and operate more sustainable SWRO facilities.



TECVAL

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Contact: Narcís Ferran - CEO

At TECVAL, we design, manufacture and supply valves, fittings and fluid-system solutions for desalination and water treatment. Based in Terrassa, Barcelona, we specialize in corrosion-resistant materials such as Superduplex, Duplex and AISI 316L, offering reliable, tailor-made products for demanding industrial environments.



TGCC

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TGCC (Travaux Généraux de Construction de Casablanca) has been a leading force in construction across Morocco and Africa for over three decades, embodying excellence, innovation, and operational performance. Founded in 1991, TGCC has established itself as a key player in the construction sector, delivering a diverse portfolio of projects including residential developments, industrial complexes, public infrastructure, luxury hospitality, healthcare facilities, and iconic civil engineering works. Known for its commitment to quality, technical expertise, and ability to manage large-scale projects, TGCC supports its clients in achieving their most ambitious visions



Torishima Europe Limited

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Contact: Damien Boisselet,
Sales Director Europe

Torishima, founded in 1919 in Osaka, Japan, supplies high-performance centrifugal pumps worldwide across water, wastewater, desalination, irrigation, power, oil & gas, chemical, and other industrial sectors.

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Transfilm Technology Inc.

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Contact: Alec Lui,
Sales & Marketing Director

Transfilm Technology Inc., based in Sunnyvale CA, specializes in advanced membrane solutions for clean water. Founded by a team of international scientists and engineers, we develop high-performance membranes for reverse osmosis (RO), nanofiltration (NF) applications in seawater and brackish water treatment.



UET Water Europe

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Contact: Alessandro Germiniasi

UET Water engineers and manufactures high-performance seawater desalination, wastewater, and reuse membrane systems worldwide. Backed by a combined engineering team with 35+ years of experience, we deliver to end users and EPC-friendly SWRO,

UHP-RO, UF, and MLD solutions providing engineered skids, modular systems, and technical support that reduce risk, maximize recovery, and optimize project performance.



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Since 1988, ATNER has established itself as a leading Moroccan player in hydraulic solutions, with a strong focus on seawater desalination. Operating across the entire value chain, the company provides design, construction, commissioning, and operation services for hydraulic infrastructure projects in Morocco and Sub-Saharan Africa.



International Water Research Institute (IWRI) –Mohammed VI Polytechnic University (UM6P)

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Contact: Abdessamad Belgada

International Water Research Institute (IWRI) – UM6P is a pioneering institute in water and climate, integrating research, education, and innovation to address Africa's water and climate challenges. Its expertise spans water resources management, advanced water technologies, climate adaptation, water governance, and hydro-informatics, fostering impactful partnerships and sustainable solutions.







NOTES



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