



EuroMed 2026 — Desalination, Water Reuse and the Environment

22–25 June 2026, Marrakech, Morocco

PROVISIONAL CONFERENCE PROGRAMME

PRE-CONFERENCE DAY

Monday morning 22 June 2026

9:00–17:30 Registration

9:00–13:00 Workshop on Non-Conventional Water for Sustainable Agriculture. Co-organised by IWRI and OCP Green Water.
Workshop Chair and Organizer Prof. Abdessamad Belgada, International Water Research Institute (IWRI), Mohammed VI Polytechnic University (UM6P), Morocco

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

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

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

Integrating Desalination and Water Reuse into Climate-Resilient Agricultural Systems

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

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 Higher School of Mines of Rabat, former Head of the Non-Conventional Water Development Department at the Ministry of Equipment and Water

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

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

14:00–17:40 Technical sessions

Monday afternoon 22 June 2026

	Session 1 Brine valorisation I	Session 2 Mass transfer and transport through membranes	Session 3 Fouling I	Session 4 Advanced wastewater treatment 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	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	86 Beating biofouling: How a revised cleaning and pretreatment strategy restored RO performance <i>Gabriele Brummer</i>	43 Custom tailored loose nanofiltration membrane incorporating cationic/zwitterionic polymer for enhanced separation performance Zeeshan Arshad , Nadeem Baig, Shaikh Asrof Ali
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	10 Direct numerical simulation of flow and mass transfer in feed spacer-filled channels of membrane separation processes <i>Santiago Cespedes</i> , Cristian Picioreanu , Bastiaan Blankert	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	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	209 The CARMEn project: A novel circular approach to recover critical raw materials and energy from spent seawater brines <i>Giuseppe Scelfo</i> , Giuseppe Battaglia , Michela Cardella, Antonia Filingeri, Andrea Culcasi, Francesco Volpe, Lorenzo Craveri, Erica Bertozzi, Alberto Tiraferri, Andrea Cipollina, Giorgio Micale	66 Discrepancy between salinity and pH on Na+ rejection: Experimental and modelling insights Fernan David Martinez Jimenez , Bastiaan Blankert, Cristian Picioreanu	78 Influence of concentration polarization on RO membrane service life Haytham Abdelfatah , Eli Oklejas	184 Computer vision-based detection and classification of protozoa for water quality monitoring Jover Erreyes Pilo zo, Cosmin Koch Ciobotaru, Ana Maria Jimenez Banzo
15:00	180 Concentration of saline water in a hybrid membrane system Marian Turek , Krzysztof Mitko	154 Fundamental challenges to solution-diffusion theory of water transport across membrane <i>Lianfa Song</i>	271 Independent pilot evaluation of electrochemical feedwater conditioning for energy and fouling reduction in seawater reverse osmosis <i>Chris Rose</i>	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	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	82 Carrier-ion interactions in membranes enable efficient nitrate and chloride separation in wastewater Fei Liu , Wan Chao, Yang Zhang		310 Plant-based coagulants for sustainable water treatment: A review and emerging research perspectives Mariem Ait Bakader , Abdessamad Belgada, Dina Benzeroual, Zakaria Hazzoumi, Anas Aguelmous
15:40–16:00 Coffee break				

Monday afternoon 22 June 2026

	Session 5 Brine valorisation II	Session 6 Water–energy nexus	Session 7 Fouling II	Session 8 Advanced wastewater treatment II
16:00	129 Performance assessment of forward osmosis for brine concentration with multi-effect distillation regeneration stage <i>Bartolomé Ortega Delgado, Patricia Palenzuela, Lourdes García-Rodríguez, Guillermo Zaragoza</i>	314 Desalination at scale: where energy transition meets water security <i>Minna Marghiche</i>	93 Use of membrane concentration polarization (CP) to monitor and control membrane biological fouling in SWRO desalination <i>Harvey Winters, Eli Oklejas</i>	59 Eco-friendly kaolinite–alginate beads adsorbents for advanced water treatment applications <i>Abderrahim Rahioui, Rachid Bouhfid</i>
16:20	193 Brine valorization through selective nanofiltration and membrane brine concentration: Operational performance evaluation <i>Guillem Gilabert-Oriol, Seungwon Ihm, Omar Al-Raqibah, Eslam AlWaznani, Mohammed Al-Talibi, Claudia Niewersch, Dean Welsh</i>	307 Synergistic optimization of membrane processes and energy mix: Towards a low-carbon desalination model with reduced OPEX <i>Mohamed Amine</i>	279 Optimizing coagulation dose, pH and rapid mixing with MFI-UF to reduce particulate/colloidal fouling in RO/NF <i>Yiman Liu, Abrar Adem, Afrasiab Yameen, Nirajan Dhakal, Peter Vollaard, Rinnert Schurer, Begüm Tanis, Jan C. Schippers, Maria D. Kennedy</i>	119 An integrated RO–NF process for the concentration of volatile fatty acid mixtures: modeling and simulation <i>Omar Atiq, Serena Bandini, Marco Giacinti Baschetti</i>
16:40	221 Closing the brine valorisation cycle at DESAL+ Living Lab via an integrated approach to high-purity salt production <i>Ángel Rivero Falcón, Yanira López López, Baltasar Peñate Suárez, Noemi Melián Martel</i>	244 Assessment of energy efficiency of the DESALRO 2.0® plant installed at the Canary Islands Institute of Technology <i>Lourdes García-Rodríguez, Rafael González-Almenara, Baltasar Peñate-Suarez, J. Antonio de la Fuente-Bencomo, Sigrid Arenas-Urrea</i>	166 Extension of cartridge filter lifespan trough chemical cleaning <i>Irene Ochoa Marchán, Paul Osthuizen, Domingo Zarzo, Patricia Terrero, Rafael Buendía</i>	206 Advanced treatment technologies for microplastic and emerging contaminant removal to enhance wastewater quality <i>Patricia Terrero, Domingo Zarzo, Clara Calvo, María del Pilar Gómez, Daniel Prats, María José Moya, Samuel Núñez</i>
17:00	295 Towards sustainable desalination in Morocco: brine valorization in the agri-food industry as a circular economy lever <i>Anas Aguelmous, Abdessamad Belgada, Nawal Sifa</i>	208 Integrated solar micro gas turbine–driven seawater desalination combining high-recovery SWRO and zero liquid discharge <i>Rafael González Almenara, Lourdes García-Rodríguez, Néstor Santana-Hernández, Agustín Delgado-Torres, Jesús Montes-Sánchez, Jorge Camacho-Espino, Bartolomé Ortega-Delgado, Nicolás Aranda-Pérez</i>	155 A more effective fouling characterization method for feedwater to reverse osmosis desalination processes <i>Lianfa Song</i>	262 Enhancing PFAS removal: Innovative plasma-treated TiO ₂ photocatalysts on Unisol membranes for advanced water treatment <i>Somaiyeh Allahyari, Nader Rahemi, Mohammad Alizadehfard</i>
17:20	53 Selective magnesium recovery from seawater-derived solutions through recyclable metal-organic framework glass-based adsorbents <i>Carmelo Morgante, Samraj Mollick, Morten Mattrup Smedskjær, Vittorio Boffa</i>			212 Non-conventional water resources in agriculture: advances, challenges and practical recommendations <i>Patricia Terrero, Domingo Zarzo, Clara Calvo, María del Pilar Gómez, Francisco José Maestre</i>
18:00–19.00 Poster pitches				

19.45–21:00 Welcome reception

Tuesday morning 23 June 2026

8:00–09:00 Registration

9:00–11:00 Official opening

We are privileged to announce the official opening of the conference by **Minister Azzedine El Midaoui**, representing the Ministry of Higher Education, Scientific Research and Innovation.

We also anticipate the presence of representatives from additional ministries at the inauguration, pending their confirmation.

Details regarding the opening remarks from esteemed guests will be provided shortly.

Opening remarks for guests to be confirmed shortly.

11:00–11:40 Walk around the exhibition and coffee break

11:40–12:50 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*

12:50–13:50 Lunch

13:50–17.50 Technical sessions

	Session 9 Brine valorisation III	Session 10 Energy efficiency	Session 11 Osmotic processes for brine concentration	Session 12 Novel materials for desalination
13:50	199 State-of-the-art nanofiltration and electrodialysis technologies for direct lithium extraction from SWRO brine <i>El Houssine Ghoulam, Abdessamad Belgada, Rachid Bouhfid, Youssef-Amine Boussouga</i>	225 Design and implementation of the DESALRO 2.0 ® concept: The most energy efficient seawater reverse osmosis desalination plant <i>Baltasar Peñate-Suarez, J. Antonio de la Fuente-Bencomo, Sigrid Arenas-Urrea, Lourdes García-Rodríguez, Rafael González-Almenara</i>	230 Techno-economic assessment of high-recovery seawater reverse osmosis (SWRO) based on osmotically assisted reverse osmosis (OARO) <i>Juan I. Pinaglia-Villalón, Rafael González-Almenara, Guillem Gilabert-Oriol, Rolando Bosleman, Juan Cifuentes, Lourdes García-Rodríguez</i>	25 Polymers of intrinsic microporosity for high performance desalination <i>Mahmoud Abdulhamid</i>
14:10	125 Can conventional desalination technologies adapt to recover critical elements from the EoL lithium-ion battery recycling industry? <i>Marco Malaguti, Simón Díaz-Quezada, Michelle Trinh Ho, Sofie Kjølby Niss, Antonio Peñas-Sanjuán, Pedro Navarrete-Segado, Aamer Ali, Cejna Anna Quist-Jensen</i>	69 Efficiency of reverse osmosis plants from a pumping equipment perspective <i>Isaac Vera Olivares, Miguel Herrero, Jorge Muñagorri</i>	305 Lessons learned: Delivering high-recovery brine through osmotically assisted reverse osmosis (OARO) <i>Keith Lampi</i>	79 Enhanced desalination performance of a metal-organic framework@activated carbon hybrid material <i>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</i>
14:30	195 CO ₂ recovery from reverse osmosis brines through membrane contactors <i>Lorenzo Ventimiglia, Giuseppe Battaglia, Maria Jose Lujan Facundo, Fabrizio Vicari, Maria Amparo Bes Pia, Alessandro Tamburini, Andrea Cipollina, Jose Antonio Mendoza Roca, Giorgio Micale</i>	211 High-pressure pumps – Total cost of ownership analysis <i>Sebastian Liebs</i>	303 Osmotically assisted reverse osmosis for high-salinity brine management: Recent advances and future technology development needs <i>Basel Abusharkh</i>	46 Thermoplastic piping systems for SWRO: Enhancing reliability, durability, and lifecycle performance <i>Markus Ebster</i>
14:50	201 Energetic evaluation of advanced pressure-driven desalination technologies for efficient industrial brine concentration <i>Christine Kleffner, Tim Santen, Gerd Braun, Yuliya Schiesser</i>	121 Use of variable speed drives on main pumps in large SWRO plants: Technical and economical considerations <i>Antonio de la Torre</i>	109 Brine concentration with low salt rejection reverse osmosis membranes <i>Maria Perez-Macia Guillem Gilabert-Oriol, Angels Tejero, Claudia Niewersch, Caleb Funk, Steve Jons</i>	175 Amphoteric chitosan/PVA beads with lignin nanotriangles for enhanced water desalination <i>Asmaa Dghoughi, Asmaa Msaad, Mohamed Anouar, Imane Souhil, Abdelhadi Elbachir, Mounir Belbahloul</i>
15:10	245 Nutrients recovery from wastewater centrate via struvite precipitation with brine-derived magnesium hydroxide <i>Ferdinando Domenico Miciletta, Samuel Navajas-Valiente, José Antonio Mendoza Roca, Maria Amparo Bes Pia, Giuseppe Battaglia, Alessandro Tamburini, Andrea Cipollina</i>	213 Energy and cost optimization in CCRO and FO-RO water reuse systems <i>Sebastian Liebs, Georg Herborg, Amogh Sharma</i>	239 Maven brine mining plant – world 1st commercial OARO project: HPP & ERD on-site performance results <i>Sebastian Liebs, Francisco Jimenez Castellanos</i>	Toward a Sustainable Future with Membrane Sciences <i>Saad Alami Younssi</i>
15:30–15:50 Coffee break				

Tuesday afternoon 23 June 2026

	Session 13 Brine valorisation IV	Session 14 Solar desalination / Energy recovery system	Session 15 Fouling and scaling	Session 16 Advancements in pretreatment
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	84 Design and testing of a solar desalination unit for emergency conditions Gabriele Copetti , Francesco Picarelli, Matteo Morciano, Matteo Fasano, Alberto Tiraferri	254 Impact of renewable-driven intermittent operation on scaling in falling film evaporators: role of tube material selection Heike Glade , Tom Ruiter	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	140 Pilot scale production of magnesium carbonates from desalination brines Michela Cardella , Giuseppe Battaglia, Giuseppe Lodato, Fabrizio Vicari, Alessandro Tamburini, Andrea Cipollina, Giorgio Micale	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	24 Techno-economic impacts of antiscalant selection on RO membrane performance in inland desalination systems Ali Alshami , Christopher Buelke	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	218 Evaluation of low salt rejection RO membranes prepared by controlled oxidation of SWRO membranes Almoatasem Alaufi , Gaetan Blandin	242 Active energy recovery devices to enable lower power consumption - MPE 70 operation results Sebastian Liebs, Francisco Jimenez Castellanos	113 The limitation of saturation indices in antiscalant projection software Max Fazel, Daniela Vidal, Mike Sinfield	111 Data-driven optimization of ultrafiltration operations using DuPont’s ultrafiltration operations advisor Christian Staaks , David Romero-Puyal, Gerard Massons, Guillem Gilabert-Oriol, Leaelf Hailemariam, Sylvia Insogna, Santhosh Ramalingam, Ankit Gupta, Amrita Panjwani
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	298 Analysis of energy consumption and efficiency standardization for hydraulic energy recovery devices Eli Oklejas	203 Polymeric antiscalants in desalination: Characterization and biofouling potential in seawater Maria Camila Albarracin , Graciela Gonzalez-Gil, Johannes Vrouwenvelder	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		51 Next generation high efficiency energy recovery device Rolando Bosleman, Juan Cifuentes		159 Hybrid ferrate coagulation/UF pretreatment for biofouling control during algal blooms Abdullah Alshahria, Mohammed Obaid, Abdulah Dehwah , Thomas Missimer, Muhammad Ali, Noredidine Ghaffour
17:30		96 Comparative evaluation of pressure-exchange and turbine ERDs under varying feed-flow conditions Haytham Abdelfatah , Eli Oklejas		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
18:00–19.00 Poster pitches				

Wednesday morning 24 June 2026

	Session 17 Electromembrane technologies	Session 18 Membrane distillation I	Session 19 Innovations in reverse osmosis	Session 20 Advancements in pretreatment II
8:30	135 Brine valorization using bipolar membrane electrodialysis: magnesium and calcium scaling with monovalent selective membranes <i>Daniel Kelly Coto, Ruben Halfwerk, Leonardo Gutierrez, Jan Post, Emile Cornelissen</i>	98 Study of a simultaneous cooling and desalination system using CO ₂ as a refrigerant and AGMD <i>Paul Byrne, Salma Roussel, Mostafa Dahbani, Thierry Maré</i>	81 Pacific Ocean seawater desalination using electro-active reverse osmosis membranes <i>Arian Edalat, Subir Bhattacharjee, David Baarck, Derrick Dlamini, Arash Tayyebi</i>	277 Innovative pretreatment processes for next-generation SWRO desalination plants <i>Abdessamad Belgada</i>
8:50	68 Ladder electrodialysis enables efficient up-cocentration of brines and acids <i>Cong Liu, Ming Tan, Yang Zhang</i>	172 Sustainable concentration of brine from a reverse osmosis plant through the intgration of solar membrane distillation <i>Isabel Requena, Alba Ruiz-Aguirre, Juan Antonio Andrés-Mañas, Juan Diego Gil, Guillermo Zaragoza</i>	247 Survival analysis for the dynamic prediction of gypsum scaling risk in batch reverse osmosis systems <i>Natasha Wright, Ali Abdelkawi</i>	62 Redefining SWRO pretreatment through ceramic membrane technology <i>Ernst Lutz, Patrick Buchta, Daniel Arias, Douglas Espin</i>
9:10	42 Experimental evaluation of multi-stage, multi-pass (batch) electrodialysis desalination brackish water at pilot plant scale <i>Jonathan Bessette, Andria Jones, Shane Pratt, Ben Judge, Amos Winter</i>	170 Breaking the 200 g/L barrier in membrane distillation: Experimental performance of an integrated solar-driven pilot <i>Frederico Felizardo, Alejandro Bueso, Maria Helena Novais, Guillermo Zaragoza, Pedro Horta</i>	17 A stepwise approach to use nanofiltration membranes instead of RO to produce drinking water at high recoveries <i>Alexei Pervov, Vyacheslav Dzyubenko</i>	243 An innovative and sustainable pretreatment design for flexible and robust operation <i>Javier Cañas Jimenez, Jesus Gimenez-Rico, Luis Miguel Garcia, Belen Gutierrez</i>
9:30	38 Advancing Morocco’s water future through sustainable solar-powered electrodialysis: a simulation-based economic analysis <i>Basma Bachiri, Mohamed Taky</i>	194 Parameters affecting membrane distillation performance – Effect of temperature and flow rate in DCMD <i>Shara Pérez Mateos, Carmen María Sánchez-Arevalo, María José Luján-Facundo, Silvia Álvarez-Blanco, Beatriz Elena Cuartas-Uribe, María Cinta Vincent-Vela</i>	52 Energy recovery in low, high, and ultra high-pressure reverse osmosis systems <i>Rolando Bosleman, Juan Cifuentes</i>	274 Material selection and design challenges of GRP filtration housings for seawater RO pretreatment <i>Oren Heymans</i>
9:50	115 Lessons learned from the operation of the world’s largest reversal electrodialisys (EDR) plant for brackish water treatment <i>Fernando Valero, Pere Emiliano</i>		41 Pyxis Lab — Advanced online monitoring solutions for reverse osmosis systems <i>Yoann Fournier, Diana Cruz</i>	306 Upstream pretreatment for reverse osmosis: impact, design optimization, and maintenance to ensure process durability amidst raw water fluctuations <i>Mohamed Amine</i>
10:10-10:30Coffee break				

10:30–11:40 Panel session **Misconceptions Affecting Social Perception and Acceptance of Desalination.** Co-organised by EDS and the Expert Group on Desalination of Water Europe.

Moderators: Olga Ferrer and Guillermo Zaragoza
Sofía Tirado (Real Instituto Elcano, Spain)
Lina Migliore (US Fulbright Program, USA)
Silvia Gallego (AEDyR)
Olga Sallangos (EDS)
Elhoussin Zidouri (ONEE, Morocco)
Mahmoud Hafsi (SMMD, Consultant)
Ramiro Angulo (Junta de Andalucía, Spain)

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	Session 21 Novel membranes	Session 22 Membrane distillation II	Session 23 Brackish water desalination / Energy saving	Session 24 Advancements in pre- and post-treatment
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	80 Harnessing light for water: Photothermal membrane distillation for sustainable desalination Mohamed Khayet , A. Askir, S. Díaz-Luz, C. García-Payo, F. Aziz	280 Key performance and energy challenges in small scale brackish water desalination systems Youssef-Amine Boussouga	272 Submerged UF on the rise again: DuPont Inge ultrafiltration technology in submerged mode Christian Staaks , M. Hoffmann, M. Riemer, M. Heijnen
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	202 Conventional and emerging membrane technologies for efective 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-Uribe	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	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	60 Electrospun PVDF@MIL-53(Fe) metal organic framework: membranes for potential water treatment Rachid Bouhfid, Hamza Louhibi	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, Aamer Ali, Cejna Anna Quist-Jensen	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	100 Next-generation post-treatment: Driving efficiency and resource recovery Nicholas Nelson , Bouazza Ihyane, Jan Stemann
12:40	91 Performance and energy implications of cellulose tri-acetate hollow fiber membranes in seawater reverse osmosis Ahmed Radwan , Ratul Das	233 Performance enhancement of a typical air GT by waste heat recovery to drive a sCO ₂ Brayton cycle and membrane distillation unit Jamel Orfi , Mohammed Raihan, Abdullah Olaiqa, Abdullah Al-Hamdan, Hassan Alshehri	103 49 element simulator pilot plant, tests partial feed bypass theory to increase flux, reduce pressure loss and save energy David Jiminez , Stephen Chesters, Stephane Jarrige	75 Optimizing calcite contactor remineralization process: a techno-economic framework for desalinated drinking water Bouazza Ihyane , Jan Stemann, Nicholas Nelson
13:00–14:00 Lunch				

Wednesday afternoon 24 June 2026

	Session 25 Minimum and zero liquid discharge (MLD, ZLD) schemes	Session 26 Reverse osmosis membranes	Session 27 Desalination in policies and societal impacts	Session 28 Special session for the EXBRINER project
14:00	27 Advanced treatment of contaminated groundwater: achieving near-zero liquid discharge through a multibarrier approach <i>Lorenzo Craveri, Erica Bertozzi, Marco Malaguti, Gabriele Copetti, Davide Cerrina, Alessandro Trombetta, Valentina Rosetti, Alberto Tiraferri</i>	110 New seawater fouling resistant low-energy reverse osmosis element: Introducing FILMTEC™ SW30XLE-400/34 membrane element <i>David Arias, Guillem Gilabert-Oriol, Gerard Massons, Maria Perez-Macia</i>	39 Public acceptance of desalinated and reclaimed water: Evidence from Spain <i>Sofia Tirado Sarti</i>	294 Development of MOF-embedded cryogels for advanced water treatment <i>Maria Iliopoulou, Despina Fragouli</i>
14:20	168 Scaling-free gypsum and water recovery from pulp and paper wastewater via membrane crystallization <i>Imen Bousrih, Simón Diego Díaz Quezada, Cejna Anna Quist-Jensen, Aamer Ali</i>	33 Confined water channels in polyamide RO membranes for energy-efficient desalination <i>Harutoki Shimura</i>	145 Public perceptions and social acceptance of seawater desalination for drinking water in Morocco <i>Lina Migliore, Tarik Chfadi</i>	290 Gatekeepers of ions: Functionalized UiO 66 multilayers for selective separation <i>Muhammad Ahsan Khan, Bart Van der Bruggen</i>
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