



4, 5 & 6 November 2025

Feria València, València, Spain

A large, stylized water droplet is the central focus of the lower half of the image. It is surrounded by a network of blue lines and spheres, resembling a molecular or atomic structure. The droplet itself is dark blue with lighter blue highlights, giving it a three-dimensional appearance. The background is a gradient of dark blue and light blue.

FINAL PROGRAMME

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Conference Programme

Room A – Opening Plenary Session

Room A – Desalination & Energy (SMR)

Room B - Brine Mining & Valorization

Room C – Desalination & Energy (SMR) Stream 2

DAY 1

Tuesday 4th November 2025

09:00 – 09:20	Opening address from the Founder and CEO of Desalination Technology Expo & Conference <i>Speaker: Tony Robinson, Founder & CEO – Desalination Technology Expo & Conference</i> Room A – Opening Plenary Session <i>Plenary Keynote</i>
09:20 – 09:45	Driving desalination's future: innovative facilities extracting seawater's true value <i>Speaker: Dr. Victor Monsavlo Garcia, Head of Eco-efficiency Area, Innovation and Technology Department, Aqualia</i> Room A – Opening Plenary Session <i>Plenary Keynote</i>
09:45 – 10:10	Global Outlook on Brine Mining and Valorization <i>Speakers: Christos Charisiadis, Founder & Principal Consultant – Brine Consulting, Christopher Fellows, Professor – Saudi Water Authority</i> Room A – Opening Plenary Session <i>Plenary Keynote</i>
10:10 – 10:35	Nuclear Technology Enabling Desalination Applications <i>Speaker: Enguerrand Ducene, VP Energy Systems Sales & Business Development, EMEA – Westinghouse</i> Room A – Opening Plenary Session <i>Plenary Keynote</i>
10:35 – 11:05	COFFEE BREAK Room A – Desalination & Energy (SMR)
11:05 – 11:50	Water and Added Value European Center: Pioneering Sustainable Solutions for a Thirsty World <i>Moderator: Juan Arevalo, Project Leader, Aqualia</i> <i>Speakers: Maria Salud Camilleri Rumbau, Senior Researcher, Eurecat, Ignacio Diez, Sales Manager, NX Filtration, Naiara Hernandez, Project Leader, Aqualia, Alba Ruiz Aguirre, Researcher, Plataforma Solar de Almería-CIEMAT</i> Room A - Desalination & Energy (SMR) <i>Panel Discussion</i>
11:05 – 11:50	Technological Innovations in Brine Mining: From Theory to Practice <i>Moderator: Guillem Gilabert-Oriol, R&D Leader - DuPont</i> <i>Speakers: Basel Abusharkh, Aamer Ali, Christine Kleffner, Keith Lampi</i> Room B - Brine Mining & Valorization <i>Panel Discussion</i>

11:50 – 12:15	IDIWATER project and Desal+ living lab <i>Speaker: Ángel Rivero Falcón, Project engineer, Canary Islands Institute of Technology (ITC)</i> Room A – Desalination & Energy (SMR) <i>Keynote Presentation</i>
11:50 – 12:15	Driving Industrial Brine Valorization: Key Challenges and Emerging Pathways <i>Speaker: Christine Kleffner, Professor, University of Applied Sciences Bochum</i> Room B - Brine Mining & Valorization <i>Keynote Presentation</i>
12:15 – 12:40	Saudi Arabia's Water Missions for Global Sustainability and Innovation <i>Speaker: Eydhah Almatrafi, Associate Professor in Mechanical Engineering-Rabigh, Center of Excellence in Desalination Technology, King Abdulaziz University</i> Room A – Desalination & Energy (SMR) <i>Keynote Presentation</i>
12:15 – 12:40	Novel membrane approaches to high brine concentration and crystallization <i>Speaker: Keith Lampi, President – Fluid Technology Solutions, Inc</i> Room B – Brine Mining & Valorization <i>Keynote Presentation</i>
12:40 – 13:05	Membrane Brine Concentration: Case Studies and Project Applications <i>Speaker: Basel Abusharkh, CEO/CTO – Osmosis Technology</i> Room B – Brine Mining & Valorization <i>Keynote Presentation</i>
12:40 – 13:45	LUNCH BREAK Room A – Desalination & Energy (SMR)
13:05 – 14:15	LUNCH BREAK Room B – Brine Mining & Valorization
13:45 – 14:10	Poly-generation of power and desalinated water by Small Modular Reactors <i>Speaker: Marco Cioffi, Product Manager – Ansaldo Energia</i> Room A – Desalination & Energy (SMR) <i>Keynote Presentation</i>
14:10 – 14:35	30 years of desalination experience: repeated mistakes <i>Speaker: Paul Buijs, Founder – 1st:water</i> Room A – Desalination & Energy (SMR) <i>Keynote Presentation</i>

Conference Programme

Room A – Opening Plenary Session

Room A – Desalination & Energy (SMR)

Room B – Brine Mining & Valorization

Room C – Desalination & Energy (SMR) Stream 2

- 14:15 – 14:35 **PPP Power: Unlocking Brine's Value, Shaping a Sustainable Future**
Moderator: **Christos Charisiadis**, Founder & Principal Consultant – Brine Consulting
Speaker: **Hu Fleming**, Upwell Water Treatment – President, Partner
Room B – Brine Mining & Valorization
Fireside Chat
- 14:35 – 15:00 **Brine Mining Valorization and Commercialization**
Speaker: **Ahmed Alamoudi**, General Director for Brine Mining Center – NEOM
Room B – Brine Mining & Valorization
Keynote Presentation
- 14:35 – 15:20 **Breaking the Cycle: Learning from 30 Years of Repeated Efficiency Mistakes**
Moderator: **Paul Buijs**, Founder – 1st:water
Speakers: **Gabriele Brummer**, Applications Engineer – American Water Chemicals. **Myrna Staring**, Team Lead Seawatch Early Warnings – Fugro. **Ron Jong**, Researcher drinking water treatment, Waternet
Room A – Desalination & Energy (SMR)
Panel Discussion
- 15:00 – 15:45 **Economic Viability and Business Models for Brine Mining**
Moderator: **Guillem Gilabert-Oriol** - R&D Leader, DuPont
Speakers: **Pia Boyer**, CEO – Euphrates Energies SAS. **Hu Fleming**, Upwell Water Treatment – President, Partner. **Borja Blanco**, CEO, Aqua Advise.
Room B – Brine Mining & Valorization
Panel Discussion
- 15:20 – 15:50 **COFFEE BREAK**
Room A – Desalination & Energy (SMR)
- 15:45 – 16:15 **COFFEE BREAK**
Room B – Brine Mining & Valorization
- 15:50 – 16:35 **Water for the Future: Desalination and the Rise of Water-Hungry Industries**
Moderator: **Abraham Negaresh**, Associate Director – Desalination and Reuse Lead – WRc Group.
Speakers: **Yashar Hajimolana**, Assistant Professor – University of Twente. **Lionel Rabin**, Managing Director – Haltiqa Consulting. **Jonathan Clark**, Associate Director of Data Centres & Advanced Technology - gleeds
Room A – Desalination & Energy (SMR)
Panel Discussion
- 4:15 PM – 4:40 **What Innovations Are Still Needed to Make Brine Valorization a Commercial Reality?**
Speaker: **Christos Charisiadis**
Room B – Brine Mining & Valorization
Keynote Presentation

- 16:35 – 17:00 **Nuclear & Desalination: Power Couple or Dried-out Relationship?**
Speaker: **Florent Heidet**, CTO & Head of Reactor Development – Nano Nuclear Energy
Room A – Desalination & Energy (SMR)
Keynote Presentation
- 16:40 – 17:05 **Towards Neutrality Through Renewable Energy, Brine Reuse And Innovation**
Speaker: **Alberto Gonzalez**, Project Coordinator – Suez
Room B – Brine Mining & Valorization
Keynote Presentation
- 17:00 – 17:25 **Scalable, Selective, Sustainable: Ion-selective Desalination for the Future**
Speaker: **Jan W. Post**, Program Director – Wetsus
Room A – Desalination & Energy (SMR)
Keynote Presentation
- 17:05 – 17:30 **Brine-Refining: Simultaneous Efforts against Water Scarcity, Global-Warming, and Critical-Mineral Shortages**
Speaker: **Hamidreza Samouei**, Research Assistant Professor – Texas A&M; University
Room B – Brine Mining & Valorization
Keynote Presentation

DAY 2

Wednesday 5th November 2025

- 09:00 – 09:25 **AI With Purpose: Why We're Rethinking Desalination**
Speaker: **Vanesa Fernandez**, Performance Director – Acwa Power
Room A – Desalination & Energy (SMR)
Keynote Presentation
- 09:00 – 09:25 **The Realities of Seawater Brine Valorization**
Speaker: **Christopher Fellows**, Senior Water Expert, Saudi Water Authority
Room B – Brine Mining & Valorization
Keynote Presentation
- 09:25 – 09:50 **From Algorithms to Autonomy: The AI Evolution in Water Systems**
Speaker: **Sandro Hansen**, Application Specialist – Turing
Room A – Desalination & Energy (SMR)
Keynote Presentation

Conference Programme

Room A – Opening Plenary Session

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Room B – Brine Mining & Valorization

Room C – Desalination & Energy (SMR) Stream 2

09:25 – 09:50 **Open Testbed for Advancing Brine Valorisation under Real Conditions**
Speaker: **Ángel Rivero Falcón**, Project engineer – ITC
Room B – Brine Mining & Valorization
Keynote Presentation

09:50 – 10:15 **The Role of Automation and AI in Desalination**
Speaker: **Rami Youssef**, Desalination Business Development Manager – Siemens
Room A – Desalination & Energy (SMR)
Keynote Presentation

09:50 – 10:35 **Case Studies: Global Examples of Brine Mining in Action**
Moderator: **Christos Charisiadis**, Founder & Principal Consultant - Brine Consulting
Speakers: **Basel Abusharkh**, CEO/CTO – Osmosis Technology, **Hu Fleming**, Upwell Water Treatment – President, Partner, **Georg Herborg Enelvoldsen**, Innovation Director – Danfoss A/S, **Paolo Mattiuzza**, CEO - BrineACT
Room B – Brine Mining & Valorization
Panel Discussion

10:15 – 10:45 **COFFEE BREAK**
Room A – Desalination & Energy (SMR)

10:35 – 11:05 **COFFEE BREAK**
Room B – Brine Mining & Valorization

10:45 – 11:10 **Water Positive: Transforming the Water Treatment Market**
Speaker: **Domingo Zarzo**, Head of Strategic Projects and Institutional Relations/Founder, Sacyr/Water Positive Think Tank
Room A – Desalination & Energy (SMR)
Keynote Presentation

11:05 – 11:30 **Unlocking the Potential of High Salinity Streams in Saudi Arabia**
Speaker: **Sarah Almahfoodh**, Research Engineer – Saudi Aramco
Room B – Brine Mining & Valorization
Keynote Presentation

11:10 – 11:35 **NuScale SMR for Desalination, Brine treatment and Hydrogen Production**
Speaker: **Luis DePavia**, Innovation Manager, NuScale Power
Room A – Desalination & Energy (SMR)
Keynote Presentation

11:30 – 12:15 **Environmental and Sustainability Considerations in Brine Mining**
Moderator: **Christos Charisiadis**, Founder & Principal Consultant - Brine Consulting
Speakers: **Christopher Fellows**, Senior Water Expert, Saudi Water Authority, **Guillem Gilbert-Oriol**, R&D;

Leader – DuPont. **Ron Jong**, Researcher drinking water treatment – Waternet. **Paolo Mattiuzza**, CEO – BrineACT
Room B – Brine Mining & Valorization
Panel Discussion

11:35 – 12:20 **From Pioneers to Global Leaders: 60 years of desalination in Spain and 10 Certainties ahead**
Moderator: **Silvia Gallego**, LG Water Solution/AEDyR, Sales Manager/Board Member Board
Speakers: **Belén Gutiérrez**, Head of Desalination Department R&D/President - GS Inima/AEDyR, **Elena de la Vieja**, Aqua Advise/AEDyR, Mari **Carmen Garcia**, Director/ Board of Directors, SETA PHT /AEDyR, **Domingo Zarzo**, Head of Strategic Projects and Institutional Relations/ Former President, Sacyr/AEDyR
Room A – Desalination & Energy (SMR)
Panel Discussion

12:15 – 12:40 **Multichannel thermodiffusion: A new paradigm in thermal desalination**
Speaker: **Juan Felipe Torres**, Associate Professor – Australian National University
Room B – Brine Mining & Valorization
Keynote Presentation

12:20 – 12:45 **Engineering Next-Generation Membranes to Achieve Global Sustainability Goals**
Speaker: **Eric Hoek**, Professor – UCLA Samueli School of Engineering
Room A – Desalination & Energy (SMR)
Keynote Presentation

12:40 – 14:00 **LUNCH BREAK**
Room B – Brine Mining & Valorization

12:45 – 14:00 **LUNCH BREAK**
Room A – Desalination & Energy (SMR)

12:45 – 14:00 **LUNCH BREAK**
Room C – Desalination & Energy (SMR)

14:00 – 14:25 **Resilience by Turning Desalination Upside-Down, Literally**
Speaker: **Alexander Fuglesang**, CEO – Flocean AS
Room A – Desalination & Energy (SMR)
Keynote Presentation

14:00 – 14:25 **Brine Valorization: What comes before Lithium and Rare Earth Elements**
Speaker: **Markus Pfaender**, Executive Director – K-UTEC AG Salt Technologies
Room B – Brine Mining & Valorization
Keynote Presentation

14:00 – 14:45 **LIFE INDESAL: A Sustainable and Circular Approach to Seawater Reverse Osmosis (SWRO) - Desalination through Energy Reduction and Brine Valorization**

Conference Programme

Room A – Opening Plenary Session

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Room C – Desalination & Energy (SMR) Stream 2

Speaker: **Mariana Figueira Alves**, Project Manager, R&D Engineer, ACCIONA. **Dr. Marina Martínez Minchero**, PhD Researcher, University of Cantabria. **Germán Santos**, R&D Engineer, Apria Systems. **Hendrik Swart**, Engineer, REDstack
Room C – Desalination & Energy (SMR) Stream 2
Panel Discussion

14:25 – 14:50 **Electrochemical Pre-Treatment: Revolutionising RO Efficiency in Desalination**
Speaker: **Chris Rose**, Managing Director – Sidon Water
Room A – Desalination & Energy (SMR)
Keynote Presentation

14:25 – 14:50 **Brine valorization with low salt rejection membranes**
Speaker: **Guillem Gilabert-Oriol**, R&D; Leader – DuPont
Room B – Brine Mining & Valorization
Keynote Presentation

14:45 – 15:10 **Upgrading OCP's SWRO Plant in Morocco: A Compact i-UF Solution**
Speaker: **Pedro Otegui**, Director General, Fluytec
Room C – Desalination & Energy (SMR) Stream 2
Keynote Presentation

14:50 – 15:15 **Sustainable Desalination Living Lab: Innovation for Water Management in Semi-Arid**
Speaker: **Alba Ruiz Aguirre**, Researcher – Plataforma Solar de Almería-CIEMAT.
Room A – Desalination & Energy (SMR)
Keynote Presentation

14:50 – 15:15 **Advancing Sustainable Desalination: Innovations for Energy Efficiency and Resource Recovery**
Speaker: **Maria Salud Camilleri Rumbau**, Senior Researcher, Eurecat, **Ghazal Razi Parchikolaie**, PhD Student, Eurecat
Room B – Brine Mining & Valorization
Keynote Presentation

15:10 – 15:40 **COFFEE BREAK**
Room C – Desalination & Energy (SMR) Stream 2

15:15 – 15:45 **COFFEE BREAK**
Room A – Desalination & Energy (SMR)

15:15 – 15:45 **COFFEE BREAK**
Room B – Brine Mining & Valorization

15:40 – 16:05 **The Mega Vessel approach to pressure vessel design**
Speaker: **Mike Sinfield**, Account Manager – H2O Innovation
Room C – Desalination & Energy (SMR) Stream 2
Keynote Presentation

15:45 – 16:10 **Enabling Sustainable Desalination with SMR-300 Heat and Power Supply**
Speaker: **Daniel Gallego Zamorano**, Project Development Manager (Holtec Europe) – Holtec International
Room A – Desalination & Energy (SMR)
Keynote Presentation

15:45 – 16:10 **Coupled versus decoupled Seawater brine valorization for desalination plants**
Speaker: **Avijit Dey**, Vice President, Process development, Aquatech International
Room B – Brine Mining & Valorization
Keynote Presentation

16:05 – 16:30 **Designing 50MLD Subsea Desalination Plant**
Speaker: **Harith Alomar**, Global Sales Director – Waterise
Room C – Desalination & Energy (SMR) Stream 2
Keynote Presentation

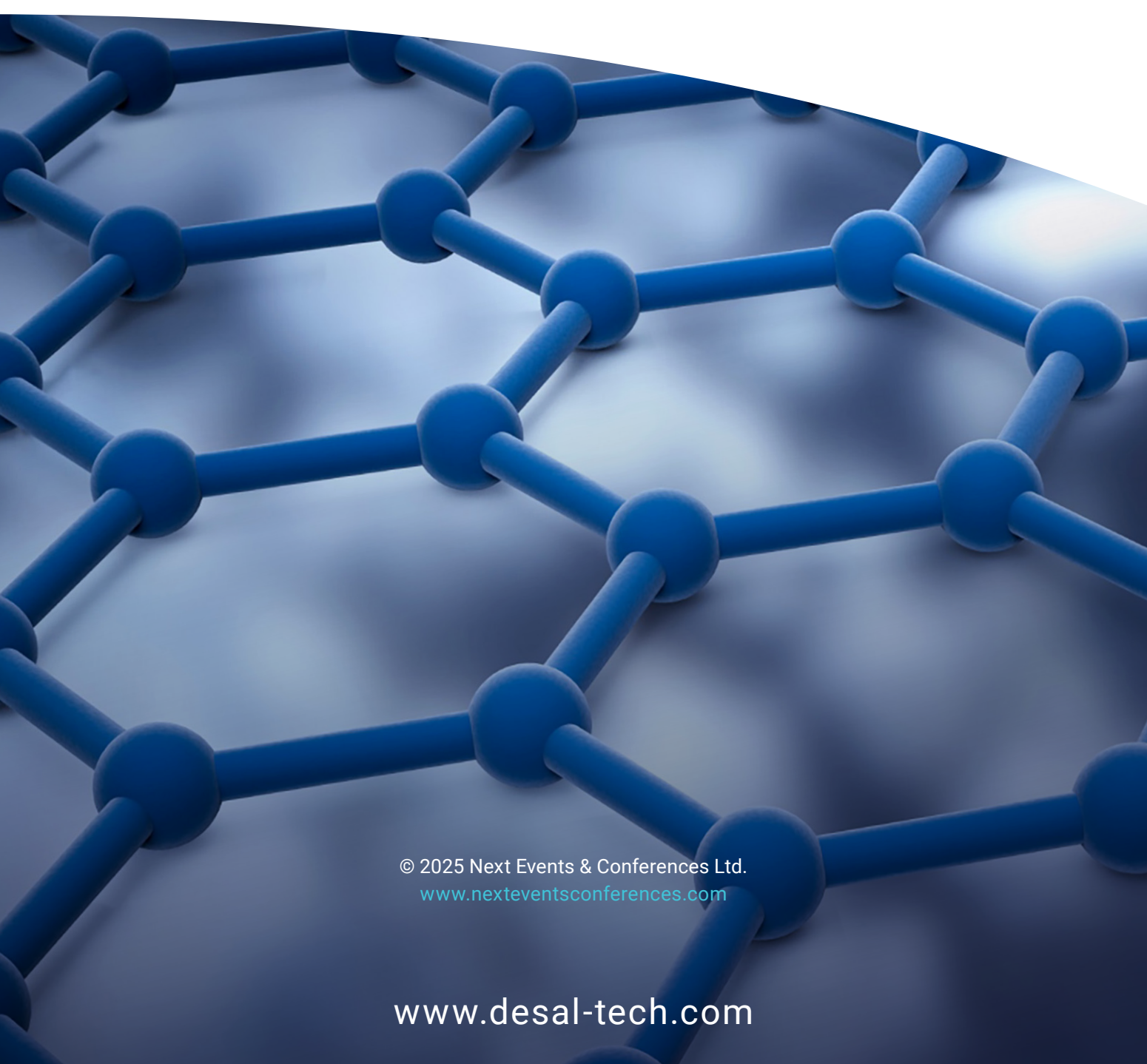
16:10 – 16:35 **SWRO/BWRO optimization – a project or an off-the-shelf solution**
Speaker: **Natan Zuta**, CEO – IOSight
Room A – Desalination & Energy (SMR)
Keynote Presentation

16:10 – 16:35 **Brine Valorization through on-site reagent recover**
Speaker: **Karel Vratny**, Thermal Domain and Battery Materials, Veolia Water Technologies & Solutions
Room B – Brine Mining & Valorization
Keynote Presentation

16:35 – 17:00 **Crosslinked nZVI-kappa carrageenan hydrogel for leachate remediation and resource recovery**
Speaker: **Ali Altaee**, Associate Professor, UTS: University of Technology, Sydney
Room A – Desalination & Energy (SMR)
Keynote Presentation

16:35 – 17:00 **Nature based treatment of iron and ammonium rich RO concentrate**
Speaker: **Ron Jong**, Researcher drinking water treatment, Waternet
Room B – Brine Mining & Valorization
Keynote Presentation

17:05 – 17:15 **Conference Summary and Closing Remarks**
Speaker: **Tony Robinson**, Founder & CEO – Desalination Technology Expo & Conference
Room A – Closing Plenary Session
Plenary Keynote



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