



AFRICA Water Desalination, RO/Membrane and Wastewater Reuse Hybrid Conference 2025

3CPD Points

"Future-Proofing Water Systems with Data, Technology, and Resilient Infrastructure"

Date: 22 – 24 October, 2025

Venue: Peninsula All-Suite Hotel, Sea Point, Cape Town South Africa

Complete the registration form
on the last Page of the brochure.
Select delegate package
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and Attend the Session

Conference Sponsor and Exhibitor Opportunities

This conference is dedicated to recent developments in desalination, water treatment and re-use, environmental sustainability and related technologies and offers opportunities to become a conference sponsor or exhibitor. To participate as a sponsor or exhibitor, please email info@zambezipride.co.za

To promote, advocate and advance the understanding and application of membrane technology to create safe, affordable and reliable water supplies, and to treat municipal, industrial and agricultural waste waters for beneficial use.



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Water Desalination, RO/Membrane and Wastewater Reuse Conference Speakers



Prof. Hamanath Kasan – President of the International Water Association (IWA). With 35 years of global experience in water management, he is a renowned expert holding a PhD in Microbiology, Water, and Environmental Engineering. As IWA President and former General Manager of Rand Water, Africa's largest utility, he has driven excellence in water services for 16 million consumers. His leadership extends to the Institute for Water and Wastewater Technology and influential international and South African roles, including advisory positions with the Bill and Melinda Gates Foundation and WHO. Prof. Kasan's visionary work continues to impact water management worldwide.



Johann Lubbe – Head, Water Partnerships Office, DBSA. Johann leads South Africa's inaugural Water Partnership Office (WPO), a ring-fenced entity established by the Department of Water & Sanitation & housed within the DBSA to drive implementation of the National Water Programme, where he leads national efforts to accelerate investment in water & sanitation infrastructure through innovative financing and PPP's. With over 20 years' experience in engineering, finance, & development, Johann holds qualifications in civil engineering, law, & a Master's in Development Finance. He plays a key role in structuring bankable water projects that drive sustainability, resilience, & economic growth across South Africa.



Raquel Nosie Mazwi - Director of Mining & Industrial Water Quality Regulation at the Department of Water and Sanitation (DWS), South Africa. With more than two decades of experience in water resource management, she leads national regulatory efforts focused on pollution prevention, industrial compliance, and acid mine drainage treatment. She oversees the Waste Discharge Charge System, the development of Waste Discharge Standards and compliance mechanisms aligned with Resource Quality Objectives, and the management of three Acid Mine Drainage Treatment Plants in Gauteng. Additionally, she is driving the development of vital water resource regulations, including those for unconventional gas activities and groundwater protection.



Tapiwa Gavaza - CEO of WaterTECH (UK) and Chair of the Honorary Fellows Panel at the Society for the Environment (SocEnv). A recognised leader in the water sector, he specializes in the water circular economy, flood and climate resilience, smart water cities, and water neutrality. Based in the UK, Tapiwa is passionate about advancing integrated, sustainable solutions through innovation, infrastructure planning, and progressive water policy.



Prof. Swati Ghosh Acharyya is an Innovation Lead and Research Advisor at Water Offset Limited (UK), CTO at Circular Innova, and a Professor at the University of Hyderabad, India. Based between the UK and India, she specializes in nanomaterials for the water circular economy, focusing on deep tech innovation for sustainable water and environmental solutions. Prof. Acharyya is actively involved in bridging advanced research with real-world impact across global water sectors.



Johannes Meyer is a consultant with over 51 years of experience in engineering, including civil, structural, mechanical, and electrical disciplines, [Name] brings extensive expertise in water and wastewater treatment, reverse osmosis, sludge treatment, water quality, and infrastructure design. His background spans design, project management, and consultancy across diverse sectors such as renewable energy, municipal services, and mega buildings. Known for leading lean teams and delivering impactful projects, he will also be hosting a workshop on water reuse technologies and strategies on the last day of the conference.



Dr. Luyanda Ndlela - Senior Researcher, Council for Scientific and Industrial Research (CSIR), South Africa. Dr. Ndlela, specializing in environmental microbiology and water quality. She holds a PhD in Zoology from Stellenbosch University and has over eight years of experience in bioremediation, microbial ecology, and ecosystem health. Her work focuses on acid mine drainage treatment, microbial source tracking, and antimicrobial resistance in aquatic environments. Dr. Ndlela is also a science communicator and advocate for community development, recognized as one of South Africa's Ten Outstanding Young Persons in Scientific Development.



Natasha Ramkirpal - Group Lead: Water Security and Optimization at Coca-Cola Beverages Africa. Natasha is the Group Lead for Water Security and Optimization at Coca-Cola Beverages Africa, overseeing water strategy and sustainability across 11 African countries. With over 15 years of experience in chemical engineering and industrial process improvements, Natasha plays a pivotal role in steering resource-efficient solutions and climate-resilient operations across one of Africa's largest beverage networks. She also serves on governance and advisory bodies, including the Manufacturing Circle board and the Water Diplomacy Network for Women.



Gerhard Cronje – CEO at Maskam Water (Pty) Ltd. With over three decades of experience in the water industry, he has developed a deep expertise in greywater reuse, rainwater harvesting, and the decentralized treatment of wastewater systems across Sub-Saharan Africa. Gerhard's contribution to water innovation has earned Maskam Water the 2017 Africa Invest Water Deal of the Year and the prestigious Solar Impulse Label in 2021. He was also honored with a Mail and Guardian Greening the Future Award in 2023 for his pioneering work in sustainable water practices.



Luan Schoeman – Director Engineering at UTICO Water (Pty) Ltd. With a background as a chemical engineer and several years of experience in process design, project execution, and consulting across water treatment sectors, Luan has been instrumental in delivering innovative, user friendly systems tailored for African contexts emphasizing reliability and sustainability even in low-skill operational environments. Luan leads Utico Water's engineering approach with a client-first philosophy prioritizing user-centric design, environmental impact, and operational longevity. His leadership supports Utico's mission to deliver clean, safe water and sanitation to communities across Southern Africa.



Dr. Patrick Hlabela has more than 25 years' work experience in the field of Research & Development & Strategic Leadership. His career kick-started at the Council of Scientific & Industrial Research (CSIR) as a researcher in the field of water & wastewater treatment technologies, the position which he held for 6 years before moving into the public sector where he spent the next 4 years of his career as a Specialist: Water Security & was later appointed as a Specialist: Centre for Food, Energy, Water & Environmental Security, within the State Security Agency of South Africa. After 5 years as a Specialist, he returned to CSIR in various leadership roles (2015–2025) & now serves as R&D Advisor at SABES, leading research strategy development.

Speaking slots still available. To participate, contact info@zambezipride.co.za

"Water is not just a basic human need. It is the lifeblood of any thriving society. ... Clean water is not a luxury; it is a right." President Cyril Ramaphosa



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Water Desalination, RO/Membrane and Wastewater Reuse Conference

Dear Delegate,

As Africa faces intensifying water scarcity and infrastructure pressure, innovative technologies like AI, digital twins, IoT, and advanced membrane systems are rapidly transforming how we manage, treat, and reuse water. The urgency for action is amplified by climate change, erratic rainfall, rising temperatures, and growing urban and industrial demand all placing unprecedented stress on our water systems.

The South Africa's water sector is under pressure facing climate change, unpredictable rainfall, growing demand, and infrastructure strain. But it's also a sector on the cusp of transformation.

This year's conference focuses on how we can leverage data driven innovation and build resilient, future ready infrastructure to secure our water supply. The key question: How do we unlock the full potential of smart water technologies and integrated reuse systems to ensure long-term sustainability, equity, and resilience?

The Water Desalination, RO/Membrane & Wastewater Reuse Conference will bring together key national and local water stakeholders to explore how we can secure sustainable, resilient, and technologically advanced water systems for the future.

This is your opportunity to engage with cutting edge innovation, share local success stories, and help shape the national water agenda. Together, we'll unpack practical strategies, showcase scalable technologies, and build partnerships that move us toward a smarter, more secure water future.

Objective

The conference aims to explore and promote sustainable solutions for water scarcity through advancements in desalination, reverse osmosis (RO), membrane technologies, and wastewater reuse. As the world confronts prolonged droughts and floods, these resilient technologies offer vital opportunities to augment water supplies and sustain natural resources.

Why Attend?

- Foster cross-sector collaboration between municipalities, utilities, academia, and private sector stakeholders to accelerate resilient water infrastructure.
- Learn from real world applications of RO membranes, AI-driven system monitoring, decentralized reuse models, and energy-efficient desalination suited for urban and rural South African contexts.
- Promote sustainable and circular approaches to water treatment, aiming for minimal waste and maximum resource recovery.
- Equip municipalities and water boards with tools to design, finance, and operate scalable water reuse and desalination projects.
- Connect with private sector players, funders, and infrastructure partners focused on expanding bankable, climate resilient water projects across Africa.
- Address climate-driven water stress by supporting the integration of AI, digital monitoring, and adaptive infrastructure planning.
- Explore regulatory readiness for water reuse, PFAS treatment, and effluent quality management in line with global trends.
- Encourage innovation in policy and economics that enables water to be valued and managed as a renewable asset.
- Experience Cape Town's Innovation firsthand - Cape Town once on the brink of "Day Zero" now leads in diversified water supply planning. This event provides a unique opportunity to explore its infrastructure, partnerships, and future-forward planning.

Do not miss this event for anything. Join us for a dynamic panel discussion on effectively commercializing water treatment technologies, with a special focus on PPPs. We encourage municipal colleagues to participate and enhance the dialogue on integrating these solutions into public water management.

Let's rethink and shape the future of water reuse technologies together.

Sponsorship and Exhibition

The Conference offers opportunities to become a conference sponsor or exhibitor. To participate as a sponsor or exhibitor, please email info@zambezipride.co.za

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Water Desalination, RO/Membrane and Wastewater Reuse Conference

Who Should Attend?

- National and Provincial Departments
- Municipal Managers, Planners and Engineers
- Water Boards and Utilities
- Consulting Engineers and Solution Providers
- Academic and Research Institutions
- Development Finance and Private Sector Investors
- NGOs and Civil Society working in water, sanitation, and climate
- Project and Investment Managers
- Heads of Development and Sustainability
- Operations Directors CSR/CSI/ Executives Asset Managers
- Investment Houses/ Finance Houses and Banks
- Food Manufacturers/ Research Institutes
- Membrane Technology Companies, Water Organizations, Institutes, Innovation Hubs, and Hydrologist
- Chemical Engineers, Process Engineers, Civil Engineers, Water Resource Engineers and Plant Operators
- Water Scientists, Technologists, Technicians, Water Management Advisors, Water and Wastewater Operators/ Plant Managers, Superintendents, Planning Managers, Engineers, Project Managers, Project Engineers and Wastewater Utility Managers
- Media (Print and Digital) and those who are involved in water quality management and control, or the operation of water and wastewater treatment plants.

The broad areas proposed to be covered include but not limited to:

- **Smart Water Systems Powered by AI & Data:**
Explore how artificial intelligence, digital twins, and sensor technologies are transforming water treatment, desalination, and reuse operations enabling predictive maintenance, efficiency, and real-time quality monitoring.
- **Scaling Circular Water Economies:**
Dive into models and case studies where wastewater is no longer a liability but a resource driving energy recovery, nutrient capture, and water reuse at scale. Hear how industry and utilities are redesigning systems for zero-liquid discharge and localized reuse.
- **Innovations in RO & Membrane Technologies:**
Engage with the latest advancements in reverse osmosis, membrane filtration, and brine management including low-energy membranes, hybrid systems, and sustainable design for large-scale desalination.
- **Contaminant Management & Regulatory Preparedness:**
Gain insights into dealing with emerging pollutants like PFAS and microplastics. Learn how policy, technology, and community engagement are reshaping safe water discharge and reuse standards.
- **Finance, Partnerships & Blue Economy Incentives:**
Learn about innovative funding models like blue certificates and blended finance that are attracting private investment into desalination and reuse infrastructure. Hear from successful public-private partnerships making a measurable impact.

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Participating Organizations, Exhibitors and Sponsors



water & sanitation
Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA



Coca-Cola Beverages
South Africa



CSIR
Touching lives through innovation

DBSA
DEVELOPMENT BANK OF SOUTHERN AFRICA
Building Africa's Prosperity



UTICO
WATER



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Water Desalination, RO/Membrane and Wastewater Reuse Conference 2025

Day One: Wednesday 22 Oct 2025

08:30-Registration and Early Morning Refreshments

08:50 - Opening Remarks and Welcome Address

09:00 - 10:00 – "Securing Municipal Water Futures: Planning, Financing, and Scaling Desalination and Water Reuse Infrastructure for Climate Resilience"

10:00 – 10:15 - **Tea Break**

10:15 – 11:00 – "Advancements in RO and Membrane Technologies for Cost Effective Desalination".

11:00 – 12:00 – " Onsite Wastewater Reuse, Including Latest Legislation and Working with Municipalities"

12:00 – 13:00 – " Harnessing Artificial Intelligence to Maximize Wastewater Reuse and Enable Circular Water Systems"

13:00 – 14:00 - **Lunch Break**

14:00 – 15:00 – " Legislative Requirements for RO/Membrane & Wastewater Re-use from a national level"

15:00 – 15:15 – Afternoon Tea Break

15:15 – 16:00 – "Regulating the Invisible: Tackling PFAS and Emerging Contaminants in Water Reuse Systems"

16:00 – 16:30 – "Paradigm Shift in Reverse Osmosis Treatment by Advanced Materials technology"

Day Two: Thursday 23 Oct 2025

08:30-Registration and Early Morning Refreshments

09:00 – 10:00 – "Collaborating for Impact: Multi-Stakeholder Models Driving Scalable Water Reuse Across Africa"

10:00 – 10:15 – **Tea Break**

10:15 - 12:00 – "Achieving SDG 6 (Clean Water and Sanitation) through PPPs"

12:00 – 13:00 - "Redesigning for Resilience: Eliminating Wastewater Through Circular Water Economy Models"

13:00 – 14:00 – **Lunch Break**

14:00 – 15:00 – Water-Energy-Food Nexus and Food Security

15:00 – 15:15 – **Afternoon Tea Break**

15:15 – 16:00 - "Digital Transformation of Desalination and Wastewater Reuse: AI, Sensors, and Predictive Maintenance"

16:00 – 16:30 – "Addressing Africa's Water Crisis with Deeptech & Nanotechnology"

Day Three: Thursday 24 Oct 2025

09:00 – 11:45 – Workshop: "Building Resilient and Integrated Water Solutions: Bridging Desalination, Reuse, and Innovation for a Sustainable Future "

11:45 – 13:00 – Plant Site Visit

13:00 – 14:00 – **Lunch Break**

14:00 – 14:20 Handing of Certificates and close of event.

Organized by Zambezi Pride your number one Training Provider



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By completing this form, Web submission or Booking via email, you are acknowledging that you have read the terms and conditions and that you have committed to attend this event. Please send this registration form or names only once you have obtained approval - as your company will be liable for costs once this information has been received by us. If the minimum number of delegates required is not met, the delegates will be moved to attend the next available confirmed class.

Delegate Registration Form

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Position: _____

Cell Number : _____

Email: _____

2. Full Names : _____

Position: _____

Cell Number : _____

Email: _____

3. Full Names : _____

Position: _____

Cell Number : _____

Email: _____

4. Full Names : _____

Position: _____

Cell Number : _____

Email: _____

5. Full Names : _____

Position: _____

Cell Number : _____

Email: _____

I hereby confirm that I have read and understood all the registration terms and conditions and have the authority to approve this registration on behalf of the company.

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Position : _____

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Email: _____

Approving Manager's Signature: _____

Department: _____

Company Name : _____

Type of Business: _____

Company Registration Number: _____

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Date: 22-24 October, 2025 at Peninsula All-Suite Hotel Sea point Cape Town

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R10,990 - 3Day + Plant Site Visit – Peninsula All-Suite Hotel Sea Point Cape Town

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R10,490 – Government Price 3Day + Plant Site Visit

☐

R9,990 – 3Day without Plant site Visit

☐

R8,990 - Virtual Price: 3-Day

Payment By Means Of Bank Transfer

- All Payments Must be made directly into the ZAMBEZI PRIDE Bank Account provided on the invoice and proof of banking details
- Please state the invoice number as reference .
- A copy of the bank deposit / Proof of Payment receipt must be emailed to accounts@zambezipride.co.za OR info@zambezipride.co.za

Bank Name: First National Bank

Account Type: Cheque Account

Name of Account: Zambezi Pride (Pty) Ltd

Account No: 62734429740

Branch Code: 254005

Swift Code: FIRNZJJ

Name: Randburg Main

Invoice Contact

First Name : _____

Position: _____

Department : _____

Cell Number: _____

Email: _____

Special Food Requirement

Terms and Conditions

ZAMBEZI PRIDE PTY LTD. The signed registration form is a legally binding contract. Please take note that a booking submission made via email or web submission or Telephonically is considered legally binding and as such, the registered delegates must inform the organizer if they will not be able to attend, failure to which the case will be handed over and penalties apply .

Full payment is required within 5 working days. Payment must be received prior to the event date. Zambezi Pride reserves the right to refuse entry into the event should full payment not have been received prior to this date. Cancellation will be charged under the term set out below.

Cancellation, No Shows and Substitutions

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