



# AFRICA

## Water Desalination, RO/Membrane & Wastewater Reuse Virtual Conference 2021

“Current Technological Developments To Curb Water Challenges”

Date: 28<sup>th</sup> – 30<sup>th</sup> July, 2021

Date: 27<sup>th</sup> – 29<sup>th</sup> October, 2021



### Conference Sponsor and Exhibitor Opportunities

The Conference offers the opportunity to become a conference sponsor or exhibitor.

To participate as a sponsor or exhibitor, please email [info@zambezipride.co.za](mailto:info@zambezipride.co.za)

Organized by **Zambezi Pride** your number one Training Provider

## Meet The SPEAKERS



**Abraham Tenne**

Former Head: Desalination Division and Chairman of the WDA (water desalination administration) at Israeli Water Authority



**Melanie Loram**

Technical Specialist at ImproChem



**Strover Maganedis**

Director at National Treasury of South Africa.



**Dr. Luyanda Ndlela**

Senior Researcher: Wastewater Microbiologist at CSIR



**Dr. Patrick Hlabela**

CSIR senior researcher and competence area manager for hydraulic infrastructure engineering. Chairperson of the event



**Katrina Zlobich**

Head of global service sales development at GRUNDFOS



**Tiaan Hendricks**

Head of Department: Energy Design, Sales & Marketing at SEM Solutions (Pty) Ltd



**Sydney Masha**

Civil Engineer at the Commercial and Business Department, eThekweni Water and Sanitation



**Gareth Schenck**

Chief Operating Officer at Impact Water Solutions



**Dr. Jeremiah Mutamba**

Senior Manager for Strategic Programs at TCTA



**Prathna Gopi**

Water Treatment Area Manager at eThekweni Water and Sanitation



**Herman Smit**

Owner at Quality Filters Systems



**Simon Wijnberg**

CEO at Impact Free Water



**Cobus Raubenheimer**

Project Director at EPF Systems



**Deelin Naidoo**

Manager: Strategy implementation support Unit at City of Cape Town

### **Israeli Water Desalination Technology**

Desalination in Israel in large scale facilities began to develop massively with governmental decisions from 2000 onwards.

The lecture will deal with the policy of desalination and its implementation in the coming decade with reference to future generations.

Desalination perimeters in Israel: Desalination of sea water currently desalination of about 670 MCM/Y. In the end of 2015 we reached a level sea water desalination rate of about 585 mph and about 70 MCM/Y.

The lecture will present the purpose of the Water Authority and closing the gap between supply and demand through water saving activities, water reuse and desalination.

The expected supply and demand data for the next decade will be presented and how the desalination plan is derived from them.

A comprehensive review of the current desalination plan will be provided and existing desalination plants will be described.

### **Application of Artificial Intelligence on the Water Infrastructure**

“It seems that in today’s market, there are buzzwords in process automation like Industry 4.0, AI and Machine learning – but without industry knowledge, these new technologies and concepts cannot add value unless the correct application can be identified. This session will look at the issues around water treatment and desalination, and where Artificial Intelligence can bring meaningful improvements to an aged industry. “

### **Status and possibilities for micro-hydro generation in Africa**

Hydropower is an underutilized resource in Africa, which accounts for about 10% of the global hydropower potential. People are always expecting the power to go out in South Africa due to rolling blackouts. Every time it happens, the possibilities of alternative power generation are discussed, usually with a focus on wind and solar power. Question is: What about water?

This session will look at the potential role of micro hydropower from water treatment plants. in establishing access to electricity and eradicating energy poverty.

#### **Case Studies:**

- Israel Water Initiatives
- Desalination
- Reclamation
- Technology

#### **Case Studies from AECI**

#### **PPP’s Case Studies**

#### **wastewater uses for micro-hydro Case Studies**

**Dear Delegate,**

The fifth Water Desalination, RO/Membrane and Wastewater Reuse conference is a continuation of Zambezi Pride conferences held in Cape Town and Durban in South Africa.

The changing climate and increasing urbanization require increasing freshwater supply and the sustainable water usage for industries and agriculture is of top priority. One of the most viable solutions is to tap from seawater, and wastewater. Membrane technologies have been established as the golden standard for desalination to address the global deficit for clean water. However, it is still expensive, which is one of the main obstacles for prevalent adoption of membranes.

Innovation is key to reduce the energy consumption and total cost. This can be advanced by developing high performance reverse osmosis and nanofiltration membranes, robust module and process design, as well as other novel desalination technologies. We have seen promise in breaking the perm selectivity trade-off using state of the art nanomaterials.

The fifth Water Desalination, RO/Membrane and Wastewater Reuse conference is the dedicated forum to disseminate the cutting edge research and development in this regard.

We are excited to host this important water event in the City of Cape Town and the City of Durban again. It will be a key platform for scientists and professionals in the membrane section of water research/industry to share the latest findings, exchange thoughts, and enlighten more ideas to advance membrane technologies for water purification, wastewater reuse, and desalination. This is an incredible business platform for developing effective strategies, sharing experiences, presenting new investment projects and innovations, consolidating efforts of governments and business to implement desalination projects and to increase water supplies all over South Africa.

At present we intend to host the event onsite according to COVID-secure guidelines to best facilitate in-person networking and learning.

However, as the future situation regarding international travel remains uncertain, we have the option to switch to our fully interactive online conference platform should the need arise.

## Who Should Attend?

CEO's  
Project & Investment Managers  
Heads of Development & Sustainability  
Finance Directors Corporate Affairs  
Directors  
Product Innovation & Development Managers  
Operations Directors CSR/CSI  
Executives Asset Managers  
Investment Houses  
Finance Houses Banks  
Municipality Water Heads Department of Water Affairs Water Boards  
Food Manufacturers  
Research Institutes  
Membrane Technology Companies Water Organisations/Institutes  
NGO's  
Innovation Hubs Hydrologist  
Consulting Engineers Chemical Engineers  
Process Engineers  
Civil Engineers  
Water Resource Engineers  
Hydropower plant operator  
Water Scientists/Technologists/Technicians  
Water Management Advisors  
Water & Wastewater Operators/Plant Managers/Superintendents  
Planning Managers/Engineers  
Project Managers  
Project Engineers  
Wastewater Utility Managers  
Academia  
Media (Print & Digital)

Organized by Zambezi Pride your number one Training Provider