



Water Desalination, RO/Membrane Wastewater Reuse Conference

"Cost Effective Methods & Technology"

Cape Town Date: 24th – 26th July, 2019 at Radisson Blu Le Vendome Hotel, Cape Town South Africa

Durban Date: 30th – 1st November, 2019 at Protea Hotel, Umhlanga, Durban South Africa

Partnered By



CESA3CPD Points
Validation number:
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Introduction

Is Digital Technology KEY to avoiding water crisis?

The insufficiency of fresh water has become a growing concern all over the world. Presently, over one-third of the world's population lives in water-stressed countries and by 2025, this figure is predicted to rise to nearly two thirds. The Cape Town water crisis in South Africa was a period of severe water shortage which could almost record Cape Town the first major city in the world to run out of water.

This Conference is considered one of the most important international conferences on water treatment and the widest specialized regional gathering to discuss desalination, reverse osmosis, and wastewater reuse researches, technologies, economies and sustainability. Zambezi Pride's 4th in the series Sea Water, RO/Membrane & Wastewater Reuse Conference themed "Cost Effective Methods and Technology" is unifying research efforts to develop water treatment technologies, and other sustainable water sources. The sustainable treatment and supply of potable water and the disposal of wastewater are among the major challenges of the 21st century, and of rapidly growing national and international significance. Membrane technology in water treatment is establishing itself as one of the most promising future solutions for the high quality, sustainable treatment of both potable and wastewater at reasonable price.

This event aims to share advanced knowledge and experience in the innovation and utilization of membrane technology for water and waste water treatment and desalination. It will provide a forum for scientists and professionals working in the membrane sector of the water industry to present their work and enlighten the ways to thinking membrane and membrane processes.

Zambezi Pride conferences have always contributed, and will continue to contribute to the provision of latest information and cost effective methods and technologies in the field of water desalination, wastewater treatment and other sustainable water sources such as water from air and many more.

Zambezi Pride proudly invites you to our event which offers the latest trends and developments in the industry, a wide and flexible range of methods and technological solutions for water treatment systems. We offer you 3 action-packed days that provide the ideal platform to make profitable business relationships, exchange ideas and enhance know-how.

Organized by Zambezi Pride your number one Training Provider

Meet the Speakers



Kevin Meier
Manager Planning
Services
Umgeni



Dr IC Brink
Lecturer: Water
Treatment
**Stellenbosch
University**



Dr Patrick Hlabela
Area Manager Built
Environment
CSIR



Bhavna Soni -Deputy
Head: Engineering,
Procurement &
Infrastructure Water &
Sanitation
eThekweni Municipality



Dr. Yusuf Makarfi Isa
H.O.D Engineering and
the Built Environment
**Durban University of
Technology**



Ronald Pillay
Snr Process Engineer
Murray & Roberts



Simon Wijnberg
Managing Director
Impact freshwater



Prathna Gopi
Acting Water Works
area Manager
**eThekweni
Municipality**



Matt Carlisle
Managing Director
Clearage Projects



**Dr. Konstantina
Velkushanova**
Senior Research Associate
**University of KwaZulu-
Natal**



Katrina Zlobich
Business Dev Manager
Grundfos



Gourish Chakravorty
CEO
Ion Exchange Safic



Bruce Hendry
Consultant



Dawid Bosman
Senior Manager –
Strategic Advisory
TCTA



Titus Kasie
Mechanical Engineer
**eThekweni
Municipality**



Dhevan Govender
Snr Manager: Commercial
& Business
eThekweni Municipality



Claire Lipsett
General Manager
Consulting
Talbot & Talbot



Udhir Debising
Lead Systems & Process
Engineer
GP Strategies Corporation



David Fulton
Managing Director
ACQUA DALL'ARIA



Sydney Masha
Candidate Civil Engineer
eThekweni Municipality



Sudhir Debising
Engineering Consultant
QTC



Truman Hardon
Snr Professional Engineer
eThekweni Municipality



Deelin Naidoo
Snr Civil Engineer
eThekweni Municipality



Alex Strachan
New Business Director
Water from Air



Adhir Debising
Systems & Process
Engineer
**Eskom Holdings SOC
Ltd**

And a Live Webinar Presentation! **IDETechnologies.**

Sponsorship & Exhibition

This conference is an incredible platform to showcase new water technology, build and strengthen effective, interdisciplinary relationships and establish your company as an international leader in innovative water efficiency technology and services. The conference will explore the latest technologies and techniques that are available to provide a solution to the water challenges.

For sponsorship & Exhibitions please contact accounts@zambezipride.co.za

IS DIGITAL TECHNOLOGY KEY TO AVOIDING WATER CRISIS?

The water industry has changed dramatically over the last decade and the speed of change continues to surge ahead at an unprecedented pace. As the industry changes and adapts to satisfy the demand for affordable and sustainable water, so we too have to adapt.

With world water demands rising and extreme droughts like the one experienced in Cape Town, drawing fresh water from oceans and other sources will be increasingly important. Various stakeholders from government and industry have come up with suggestions and solutions that will be critical to sustain the water supply beyond 2025. So companies around the world are working on new technologies that cut desalination costs, reduce environmental impacts, and broaden its applications.

Reuse of wastewater requires more complete and more certain removal of micro-pollutants and "chemicals of emerging concern" than is normally achieved in current WWT processes.

This conference is mainly focused to exchange knowledge about innovative methods and technology developments and applications of water sources.

Africa is facing unprecedented water shortages, in South Africa alone, more than 25 districts have been affected by water shortages. The City of Cape Town can breathe a lot easier now as desalination plants have been launched in the City of Cape Town as well as the City of eThekweni with a few pilot projects, on the drawing board.

In our three previous successful events conducted in Cape Town and in Durban, we took our esteemed delegates in Cape Town for a Pilot Plant site visit to **Graham-Tek Holdings Ltd** now known as **Osmotek**, our other visits have consisted of **Umgeni Pilot Plant** at the **Scottburgh Caravan Park**, **ImproChem (Pty) Ltd** (Umbogintwini) Plant and we took our esteemed delegates for the previous conference to **Wiggins Water Works** in Durban. Don't miss the next Plant Site visit for anything.

The Sea Water Desalination, RO/Membrane & Waste Water Reuse Conference accredited with 3-CPD points by CESA is a valuable educational event, founded with an emphasis on discussions on cost effective methods and technology. Zambezi Pride brings together end users, researchers, practicing engineers, managers, educators, suppliers and contractors. It is dedicated to advancing new developments in the treatment, use and reuse of water for industrial and other engineering purposes.

Attendees come to learn unbiased details about the latest applications available in the industry, get educated on current technology and hold wide ranging discussions with their peers active in water treatment. The Event will focus on how the emerging technologies are transforming the water & wastewater sector, and how to scale up the adoption of clean water solutions, including through collaboration and consolidation of both public/private sector efforts, and the pressing technological, regulatory, technical and financial challenges that need to be addressed in doing so.

The aim of this Conference is to provide an overview of both the theoretical and practical aspects of desalination, membrane technology, advanced oxidation processes, natural treatment systems and water reuse.

We'll also be looking at other water sources, harvest pure drinking water from the atmosphere in an eco-friendly and economically viable way.

This Conference will highlight innovative ways of tackling water shortages and government initiatives. Major players from government, industry, academia and commerce will meet to discuss the way forward, to find out if Public Private Partnerships are the solution to the water crisis in Africa. We will also echo the digital age terminology: Speed and agility, "big data", cyber security, transparency and optimization, all global vectors of change that should be leading the modern water industry mindset. The event has been providing excellent opportunities to establish new partnerships between the governmental and local policy makers, investors, business executives and representatives of business associations.

We are confident that you will benefit from the stimulating and dynamic atmosphere of the Zambezi Pride Conference.

I look forward to welcoming you at the 4th in the series **Water Desalination, RO/Membrane & Wastewater Reuse Conference 2019**.

For Sponsorship and Exhibition queries, kindly send your info to accounts@zambezipride.co.za

For Bookings, kindly send a completed registration form to info@zambezipride.co.za or

Call us on +27 (0) 11 056 6337 or +27 (0) 87 378 0080

Key Focus

- Is Digital Technology KEY to water crisis?
- Is the financing of such a project viable?
- Are we getting any value for our money from this investment?
- Have we exhausted all the possible options? Is the technology environmentally friendly? What happens to the brine?
- Is using 30% less of our already depleted energy supplies the answer?
- Is the proposed project going to create jobs for the locals?
- What is Solar Desalination?, how it works? Is it a solution to the high cost of having a normal desalination plant?
- We ask ourselves all these questions, are we getting the right answers?
- This conference seeks to create a platform to answer all these questions.
- Clean Water Supply | Desalination | Drinking Water | Process Water | Wastewater | Zero Liquid Discharge |
- Rainwater Harvesting | Atmospheric Water Harvesting | Water Treatment Equipment | Filtration Systems | Pumps & Valves | Process Control Instrumentation
- If you would like to have an insight on the cost effective methods & technology, like Solar Desalination and desalination using wave energy, methods and technologies that could make turning seawater into drinking water more affordable and palatable for budget-stretched cities as well as innovative technologies on Reverse Osmosis, Atmospheric Water Harvesting & Wastewater Reuse, then this event is definitely for you.

Who Should Attend?

- Water Boards, Research Institutions, Collection System Managers
- Process Engineers
- Civil Engineers
- Laboratory Technicians, Process Technicians, Analysts & Quality Analysts
- Irrigation Scientists, Water Scientists, Consultants, Chemical Technicians
- Environmental Engineers/Chemists/Scientists, Assets Managers
- Directors, CEO's, Facilities Managers, Project Managers, Water Resource Managers
- Investment Houses, Structural Investment Managers
- Local, State, and Federal Regulators, NGO's, Abattoirs, Food Manufacturers
- Parliamentarians, Graduate Interns
- Banks, Finance Directors, Corporate Affairs Directors, Public Officials
- Water and Wastewater Operators, Plant Managers, Superintendents
- Students, Academia, Media, Planning Engineers, Hydrologists
- High Level Decision Makers, State Leaders
- Consultants, District Managers
- Equipment Manufacturers and Representatives, Equipment Suppliers
- Industrial Water and Wastewater Treatment Professionals
- Private Industry and Academia Researchers
- CSR/CSI Executives, Innovation Hubs.
- Water and Wastewater Utility Managers
- Government officials responsible for municipal industrial wastewater collection and treatment programmes, storm water management, surface water quality and ecology management and bulk water system.

Highlights

Day one and day two will focus on ;

- Desalination processes; Inland Desalination, Solar Desalination, Wave Energy Desalination, Bay and Ocean Desalination, Coastal Desalination and MOM Desalination
- Desalination Plants Project Management
- Concentrate Management in Desalination
- Desalination and Water Reuse Process Design and Configuration
- Desalination Projects Implementation & Life Cycle Costing
- Desalination vs Sewage Reclamation & The Future of Desalination
- Government Funding and Initiatives
- PPP Initiatives
- Desalination 6.25 Megalitre PPP Case Study
- PPP Funding - Bankability Requirements and Challenges
- PPP Case Study DWR Model
- Non revenue Water
- The Security of Water Supply in South Africa
- Western Aquaduct Construction
- EWS Gas To Energy Feasibility
- Wastewater Recycling and Reuse
- Water Reuse for Municipal and Utilities and, Water Reuse in Industry
- MBR, MBBR & FBBR – Comparison of Wastewater Technologies
- Concentrate Management for Processed Water
- Storm Water Considerations in Reuse
- Reuse Distribution Systems
- Small Treatment Plants for Industrial Wastewater and Sewage
- Acid Mine Treatment
- Plant Design and Process
- Key Factors to consider for Investments

And on the third day, an exhibition and a site visit to the Water Desalination Plant.



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Water Desalination, RO/Membrane & Wastewater Reuse Conference

Kevin Meier - Manager: Planning Services **Umgeni Water**

Topic: Water sources, applications, capacities, and cost (a comparison of costs between desalination and other technologies) & Why is there an increasing demand for desalination?

Sudhir Debising – Consultant Engineer

QTC & Udhir Vyas Duth Debising - Systems & Process Engineer

GP Strategies Corporation

Topic: Solar Desalination

Sydney Masha – Candidate civil Engineer **eThekweni**

Topic: Remix Doubledot Desalination 6.25 megalitre PPP Case Study

Katrina Zlobich – Business Development Manager **Water Treatment Grundfos**

Topic: Integrated Desalination Systems for Industrial Water Reuse & Novel Water Treatment Systems

Bhavna Soni - Deputy head: Engineering, Procurement & Infrastructure **Water & Sanitation eThekweni Municipality**

Topic: Security of water supply for eThekweni Municipal area.

Bruce Hendry - Consultant

Topic: Exploring adsorptive chemical processes and modular integrated reuse of wastewater.

Prathna Gopi – Acting Water Works area Manager **eThekweni Municipality**

Topic: Developing Social Infrastructure In Response To A Changing Society: Providing Water and Sanitation services in a manner that is equitable, environmentally, socially, financially sustainable, and technically excellent

Dr. Yusuf Makarfi Isa - H.O.D Engineering and the Built Environment: **Durban University of Technology**

Topic: Ocean thermal Energy conversion, prospects and challenges

Titus Kasie - Mechanical Engineer **eThekweni Water & Sanitation**

Topic: PPP Funding - Bankability Requirements and Challenges: PPP Case Study DWR Model

Ronald Pillay - Senior Process Engineer **Murray & Roberts**

Topic: Cogitating the strategic Questions posed by large-scale seawater desalination

Simon Wijnberg – Managing Director **Impact Free Water**

Topic: Wave Energy Reverse Osmosis Pump

Adhir Vyas Duth Debising – Systems & Process Engineer:

Eskom Holdings SOCLTD

Topic: Non Revenue Water

Bhavna Soni – Deputy Head: Engineering & Infrastructure **Water & Sanitation eThekweni Water & Sanitation**

Topic: Western Aquadot Construction

Nokwanda Mpofana – Senior Professional Engineer:

eThekweni Water & Sanitation

Topic: Security of Water Supply for City of Durban

Deelin Naidoo – Senior Civil Engineer:

eThekweni Water & Sanitation

Topic: AC Pipe Replacement

Dr. Konstantina Velkushanova – Pollution Research Group:

UKZN

Topic: Non-sewered sanitation and potential for reuse in a circular economy context

Dr. Patrick Hlabela – Area Manager Built Environment

CSIR

Topic: Water reclamation from Acid Mine Drainage with concomitant valorisation of the resultant by-products “the attempt to reverse the damage with possible benefits”

Claire Lipsett – General Manager: Consulting **Talbot & Talbot**

Topic: Industrial Water Reuse – the value opportunity

Dhevan Govender - Snr Manager: Commercial & Business **eThekweni Water & Sanitation**

Topic: Organic New Wastewater Technology

Matt Carlisle - Managing Director

Clearage Projects

Topic: Wastewater Treatment: Technology Research & Development

Dr IC Brink - Lecturer: Water Treatment

Stellenbosch University

Topic: Industrial Wastewater Treatment & Reuse in South Africa

David Fulton – Director

ACQUADALLARIA Atmospheric Water Generators.

Topic: Water Farm Cell Technology and how Atmospheric Water Generators will play part in ensuring South Africa has access to clean drinking water regardless of failing Municipal infrastructures and the impact the El-Nino Southern Oscillation phenomenon is having on our weather pattern.

Alex Strachan – Director of New Business **Water from Air**

Topic: Atmospheric water harvesting as an off-grid solution

Nokwanda Mpofana – Senior Professional Engineer:

eThekweni Water & Sanitation

Topic: Security of Water Supply for City of Durban

Akash Singh – Senior Professional Engineer:

eThekweni Water & Sanitation

Topic: Environmental Authorisation

Megan Euston-Brown – Director

Sustainable Energy Africa

Topic: EWS Gas to Energy Feasibility, EWS energy future PPP Projects: Hydro & Solar

3 Day Conference Program

08:00 - 08:30 Registration and Morning Refreshments

10:00 - 10:15 Tea Break

13:00 - 14:00 Lunch Break

15:00 - 15:15 Afternoon Tea Break

16:30 - Close of Day & handing of Certificates on Day Two

Day Three 08:00 - 10:00 Workshop and Exhibition

10:00 - 15:00 Plant Site Visit and Close of Conference

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Water Desalination, RO/Membrane & Wastewater Reuse Conference

Registration Form

Please write in BLOCKCAPITALS

ZAMBEZIPRIDE

Water Desalination, RO/Membrane & Wastewater Reuse Conference (CESA) 3-CPD points

COMPANY AND DELEGATE DETAILS

Organization:

Nature of Business:

Address:

City: Post Code:

Phone: Fax:

VAT:

Delegate Details:

1. Full Names:

Position:

Email:

2. Full Names:

Position:

Email:

3. Full Names:

Position:

Email:

4. Full Names:

Position:

Email:

5. Full Names:

Position:

Email:

FEES

Price per Delegate = R 8,999.00

Advise if there are any special FOOD requirements

Att: Charles

info@zambezipride.co.za

Please select your venue of choice TICK the Box

DATE: 24th – 26th July, 2019

VENUE: Radisson Blu Le Vendome Hotel, SeaPoint
Cape Town South Africa

DATE: 30th Oct – 1st November, 2019

VENUE: Protea Hotel, Umhlanga, Durban
South Africa

PRICE PER DELEGATE = R8,999

AUTHORISATION

Signatory must be authorized to sign on behalf of the contracting Organization

Name:

Position:

Email:

Signature:

Date:

THIS BOOKING FORM IS INVALID WITHOUT THE SIGNATURE

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. **2. Cancellations, No shows & Substitutions:** Cancellations received in writing more than 21 days prior to the event being held carry a 50% cancellation fee. Should cancellations be received between 21 days and the date of the event, the full event fee is payable and non-refundable. Non-payment or non-attendance does not constitute cancellation. No show will be charged the full registration fee. Cash alternatives will not be offered, however, substitutes at no extra charge are welcome. **3. Alterations to advertised package:** **Zambezi Pride** reserves the right to alter this programme without notice or penalty and in such situations no refunds or part – refunds or alternative offer will be made. Should **Zambezi Pride** permanently cancel an event, for any reason whatsoever, the Client shall be provided a credit of the equivalent amount paid towards the cancelled event. In the case of a postponed or cancelled event, **Zambezi Pride** will not be responsible for covering airfare, accommodation, or other travel cost incurred by Clients. **4. Copyright:** All intellectual property rights in the materials distributed by **Zambezi Pride** in connection with this event are expressly reserved and any unauthorized duplication, publication or distribution is prohibited.

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Account Type: Cheque Account

Name of Account: Zambezi Pride (Pty) Ltd

Account No: 62734429740

Branch Code: 254005

Swift Code: FIRNZJJ

Branch Name: Randburg