

THE WATER SHOW AFRICA 2017
28 -29 MARCH 2017
SANDTON CONVENTION CENTRE
JOHANNESBURG, SOUTH AFRICA
PRELIMINARY AGENDA

DAY ONE, 28 MARCH 2017

08:40	Organiser's opening remarks	
08:45	Chairperson's opening remarks: Adam Lovell, Executive Director, Water Services Association of Australia, Australia	
	BIG PICTURE	
08:50	Selling water – Water as a 'hot asset class' <ul style="list-style-type: none"> The new "Water Barons": Why Wall Street mega-banks are buying up the world's water Looking beyond development: Why invest in the African water sector Innovative finance in the water and sanitation sector Water financing instrument analysis: What works best for the water infrastructure investment The role of private equity in water Developing successful water PPPs Samantha Yates, Secretary General, Global Water Leaders, United Kingdom	
09:10	Keystones for SDG's: Innovation and Implementation <ul style="list-style-type: none"> Responsibility to act: Engaging in innovative partnerships to implement SDGs framework Redefining the roles of science, technology and innovation policies to foster the implementation of SDGs Mainstreaming the 2030 agenda for sustainable development Galvanising partners to action: what needs to be done differently and how do we do it? Robert C. Brears, Founder and Author of Mitidaption and Urban Water Security, New Zealand	
09:30	Reserved for Title Sponsor ABB Tobias Becker, Senior Vice-President; Head of Africa 1000-Day Programme, ABB, Dubai	
09:50	Speed networking	
	10:00 Exhibition opening	
10:10	Morning tea, networking and exhibition viewing	
	TRACK ONE	TRACK TWO
	FINANCE AND INVESTMENT	STRATEGIC RESOURCE MANAGEMENT Frances Ringwood, Editor of Water & Sanitation Africa, RSA
11:00	How to structure water infrastructure deals <ul style="list-style-type: none"> What do investors look for in a project? Innovative investment and finance models A risk-management approach to a successful infrastructure project Reaching financial close - best practices Governance matters! How to deal with issues of oversight and governance François Sueur, Senior Water Specialist: Water and Sanitation Division, Agence Française de Développement	The new politics of water: The rise of hydro-diplomacy <ul style="list-style-type: none"> Africa trans-boundary water resources outlook Demand forecast trajectories The GERD and its potential impacts Regulation and agreements Manon Cassara, Water Resources Management Specialist, The World Bank, Kazakhstan
11:20	Mutually beneficial PPP structures for investors and utilities <ul style="list-style-type: none"> What does a 21st century PPP structure look like? Overcoming cross-border contractual challenges Interpreting and using the latest global PPP performance data Applying global best practice Regulation Andre Kruger, Project Manager, Africa Investment and Integration Desk (AVID), NEPAD Business Foundation, South Africa	Turning the tide: How we can do better with what we have <ul style="list-style-type: none"> Water conservation 101: Ready, set and go! Defining a practical water conservation program Monitoring and evaluation – what to look for? Get the end-user involved: Developing incentive programs Maintaining existing assets to minimise investment needs Carel Schmahl, Manager: Infrastructure Planning, Planned Maintenance, and GIS unit, Lepelle Northern Water, South Africa
11:40	INFRASTRUCTURE	NEW SOURCES
	Building and successfully commissioning new water infrastructure <ul style="list-style-type: none"> Procurement considerations Managing risks and black swans Sticking to project timelines Ensuring maximum utility involvement without delaying the project Working with multiple suppliers Making skills development a focus An eye for the little things: avoiding unrest Gustaff Chikasema, Corporate Planning Manager, Lilongwe Water Board, Malawi	The partnership of desalination, ground water resources and water reuse quenching the thirst in the Central Namib <ul style="list-style-type: none"> Water supply history of Namib Central Coast up to 1975 Effect of mining on water demand after 1975 Development requires new water supply solutions Partnership of water solutions key to economic and social development Willem Venter, Head: Planning & Water Resources Management, NamWater, Namibia
12:00	Making water smart: Water optimisation through intelligent infrastructure <ul style="list-style-type: none"> Save water. Save money: How water utilities can account for every drop and turn water into revenue Irrigation with Intelligence Data overload: Data management in smart networks Smart water networks: Opportunities in network efficiency optimisation 	Groundwater – The valuable resource <ul style="list-style-type: none"> Tapping into Africa's groundwater potential Strategies for managing Africa's ground water resources Developing sustainable resource management policies Professor Masengo Ilunga, Associate Professor, University of South Africa, South Africa

	Mabasa John Gumbo, Senior Civil and Water Engineer, Johannesburg Water, South Africa	
ROUND TABLES		
12:20	<p>Numbers will be limited at each table, to ensure everybody gets their chance to participate in the discussion. Now's your chance to get really interactive! Simply pick one of our roundtable topics and join the debate. 5 minutes will be allocated for delegates settle and find their relevant roundtable.</p> <p>Developing a water restriction plan: How to implement water cuts Mahlomola Mehlo, Acting Chief Operations Officer, Magalies Water, South Africa</p> <p>How rainwater harvesting could solve Africa's water shortages Yvone Liece, Senior Quality Water Advisor, Rand Water, South Africa</p> <p>Dealing with water theft and issues of non-payment Joseph Ndegeya, Business Development Manager, National Water and Sewerage Corporation, Uganda</p> <p>Green Bonds as a new source of financing for water security Gideon Vos, Infrastructure Investment Transactor, Rand Merchant Bank, South Africa</p> <p>Greywater recycling – An untapped resource inside buildings Jason Mingo, Task Manager: Ecological Infrastructure and Bioremediation, Western Cape Department of Environmental Affairs and Development Planning, South Africa</p> <p>Solutions for remote monitoring and management Mutemi Mbinga, Senior Engineer, Athi Water Services Board, Kenya</p>	
13:00	Lunch, networking and exhibition viewing	
	EAST AFRICA COUNTRY SPOTLIGHTS	WATER SECURITY AND SUSTAINABILITY
14:20	<p>The hottest projects in Mauritius and what is being done to open the investment door</p> <p><i>This presentation covers projects from the entire water spectrum</i></p> <p>Dr Yousouf Ismaël, General Manager, Central Water Authority, Mauritius</p>	<p>Let's not waste this drought! Key lessons from the drought affecting much of Africa</p> <ul style="list-style-type: none"> • Looking backwards: Where were we blind? • Running dry: The drought isn't over, we can't get complacent • Top drought management tips • Infrastructure considerations • What's to come: new policies, new mandates & opportunities to improve the water industry <p>Msizi Cele, General Manager Operations, Umgeni Water, South Africa</p>
14:40	<p>The hottest projects in Burundi and what is being done to open the investment door</p> <p><i>This presentation covers projects from the entire water spectrum</i></p> <p>Abel Nsabimana, Expert/Researcher, Polytechnical University of Gitega, Burundi</p>	<p>From catchment to the consumer: Overcoming the grand challenge of water security in Africa</p> <ul style="list-style-type: none"> • Framing the water security challenge • Start small & scale up! • From trade-offs to synergies- enhancing a dialogue for better water governance • Developing watershed partnerships & safeguarding the flow of water in restive regions • Taking a multilateral approach to achieve sustainability • Water rights: Conflicts & solutions <p>Edward Livesey, Electrical Support Manager, Johannesburg Water, South Africa</p>
15:00	<p>The hottest projects in Uganda and what is being done to open the investment door</p> <p><i>This presentation covers projects from the entire water spectrum</i></p> <p>Dr Silver Mugisha, Managing Director, National Water and Sewage Company, Uganda</p>	<p>Developing smarter solutions for a water-scarce future</p> <ul style="list-style-type: none"> • Smart leakage management, network optimisation, metering and more • Advancing the frontiers of water recycling and reuse • Making smart water infrastructure affordable and customising the tech for the African environment • Looking beyond telemetry – affordable alternatives available • Using satellite imaging tech to identify potential underground leakage sites <p>Jeremiah Mutamba, Senior Manager: Strategic Programs, Trans Caledon Tunnel Authority, South Africa</p>
	TREATMENT AND REUSE	SOUTHERN AFRICA COUNTRY SPOTLIGHTS
15:20	<p>Accelerating H2O reuse: Advancing world-class technologies, expertise and networks</p> <ul style="list-style-type: none"> • Realities of water reuse from the boardroom, boiler room and business • Water reuse: Issues, technologies, and applications • From drain to drink: innovations in wastewater reuse • What government can do to accelerate industrial reuse • Future water reuse and other marginal water use possibilities <p>Melissa Meeker, Executive Director, Water Environment Research Foundation and WateReuse, United States of America</p>	<p>The hottest projects in Namibia and what is being done to open the investment door</p> <p><i>This presentation covers projects from the entire water spectrum</i></p> <p>Willem Venter, Head: Planning & Water Resources Management, NamWater, Namibia</p>

15:40	<p>Improving the sustainability of water treatment systems: Opportunities for innovation</p> <ul style="list-style-type: none"> • Current standard approach to water treatment • Emerging solutions: Localised, networked water treatment • Research and innovation: Examples of promising innovations • How to change regulation, policy, and procurement to reflect new realities <p>Tumelo Gopane, Managing Director, East Rand Water Care Company (ERWAT), South Africa</p>	<p>The hottest projects in Malawi and what is being done to open the investment door</p> <p><i>This presentation covers projects from the entire water spectrum</i></p> <p>Gustaff Chikasema, Corporate Planning Manager, Lilongwe Water Board, Malawi</p>
16:00	<p>Challenges and management techniques for harmful algal blooms</p> <ul style="list-style-type: none"> • Utilities' challenges due to accumulation and growth of harmful algae • The link between climate change and harmful algal blooms, and how it impacts water scarcity and reuse • Risk management, community engagement and customer perception • Source protection and prevention strategies <p>Dr Arash Zamyadi, Research Associate, University New South Wales, Australia</p>	<p>The hottest projects in Swaziland and what is being done to open the investment door</p> <p><i>This presentation covers projects from the entire water spectrum</i></p> <p>Samson Sithole, Chief Executive Officer, Swaziland Water and Agricultural Development Enterprise, Swaziland</p>
16:20	Afternoon tea, networking and exhibition viewing	
	Keynote Panel	
16:50	<p>Increasing Africa's access to clean water – how do we do it?</p> <ul style="list-style-type: none"> • Regional cooperation, planning and affordability • The role of innovation and technology • Dealing with Africa's rising debt problem • Unconventional resources: Present to future • Where and how will Africa secure the needed investment • Innovative business models enabling increased water access in developing countries <p>Samantha Yates, Secretary General, Global Water Leaders, United Kingdom Alex Simalabwi, Global Coordinator, Water, Climate and Development Programme, Global Water Partnership, Zambia Mohan Vivekanandan, Group Executive: Strategy, Development Bank of Southern Africa, South Africa Dr Yousouf Ismaël, General Manager, Central Water Authority, Mauritius</p>	
17:30	Chairpersons closing address and close of day one	
18:00	COCKTAIL PARTY	

DAY TWO, 29 MARCH 2017

08:40	Organiser's opening remarks	
08:45	Chairperson's opening remarks	
	Keynotes	
09:00	The future is now - Meeting tomorrow's water demands <ul style="list-style-type: none"> • What is the long term future for the African water industry? • With a projected population of over 2 billion people by 2050 - where will the water come from? • Water and climate change adaptation: Addressing the impact of climate change on the African water sector • Where will the money come from? <p>Mariette Loefflerink, Chief Executive Officer, Federation for a Sustainable Environment, South Africa Robert C. Brears, Founder and Author of Mitidaption and Urban Water Security, New Zealand Hon. Suleiman Adamu, Minister, Federal Ministry of Water Resources, Nigeria Dr Silver Mugisha, Managing Director, National Water and Sewage Company, Uganda</p>	
09:40	Urban water in supporting liveable communities Adam Lovell , Executive Director, Water Services Association of Australia, Australia	
10:00	Morning tea, networking and exhibition viewing	
	THE ROLE OF BIG DATA / DATA, BIG DATA	TECHNOLOGY AND INNOVATION
11:00	Big Data is coming: The promise; the predicament and how to realise its potential <ul style="list-style-type: none"> • Utilities and Big Data: Why Big Data is a big deal for the water industry • Putting Big Data to work: Why the water industry should care about data analytics • Big Data analytics and remote monitoring • Top tips for leveraging Big Data for a water utility 	Promoting technology innovation for clean and safe water <ul style="list-style-type: none"> • The business case for technology innovation for water • Market opportunities for technology and institutional innovation • Innovative leakage monitoring and detection technologies • Putting it all together: achieving water sustainability • A path forward: actions to promote technology innovation <p>Davis Cook, Chief Executive Officer, Research Institute for Innovation and Sustainability, South Africa</p>
11:20	Harnessing the power of Big Data to improve operational efficiency <ul style="list-style-type: none"> • Roadmap for Big Data adoption for water utilities • Invisible infrastructure: How Big Data is 'bringing the water grid above ground' • Realising the water-data-nexus • Leveraging telemetry and remote SCADA solutions • Other applications <p>Liaane de Witt, Head of Division: Planning, Ekurhuleni Metropolitan Municipality, South Africa</p>	Emerging sustainable technologies for potable and wastewater treatment <ul style="list-style-type: none"> • The need for innovation • Innovative treatment for potable reuse • New collaborative approaches • Emerging biotechnology for sustainable water treatment <p>Yusuf Dindar, Strategic Program Management – Water Management PMTE, Department of Public Works, South Africa</p>
	ENGAGING THE END USER	URBAN WATER
11:40	Taking the customer behind the tap: Achieving awareness of the true cost of water <ul style="list-style-type: none"> • The impact of consumer awareness of water sector issues • How the 'water as a service' mindset is changing water usage • Cost recovery and revenue: Cultivating a responsible payment culture through awareness <p>Dr Limakotso Moorosi, Chief Executive Officer, BloemWater, South Africa</p>	Integrated Urban Water Management (IUWM): Toward diversification and sustainability <ul style="list-style-type: none"> • Why we need IUWM • The economics of IUWM • Policy recommendations • Moving to Integrated Urban Water Management: How to do it? <p>Mukami Kariuki, Lead Water and Sanitation Specialist, The World Bank Group, South Africa</p>
12:00	The need for a behaviour change in consumption <ul style="list-style-type: none"> • Behavioural econ, behavioural nudges and applications in the utility space • The role social norms play in consumption • Process issues and how to solve them <p>Jay Bhagwan, Executive Manager, Water Research Commission, South Africa</p>	Integrated Urban Water Management - Lessons and recommendations from across the world <ul style="list-style-type: none"> • Setting the scene: Urbanisation and socioeconomic development • Case studies from Latin America and Central Asia • Lessons and recommendations <p>Manon Cassara, Water Resources Management Consultant, The World Bank, Kazakhstan</p>
	ROUNDTABLE DISCUSSIONS	
12:20	<p>Numbers will be limited at each table, to ensure everybody gets their chance to participate in the discussion. Now's your chance to get really interactive! Simply pick one of our roundtable topics and join the debate.</p> <p>Urban water reuse as part of upgrading an informal settlement Jason Mingo, Task Manager: Ecological Infrastructure and Bioremediation, Western Cape Department of Environmental Affairs and Development Planning, South Africa</p> <p>Exploring the link between social protests and water service delivery in South Africa Prof Mary Galvin, Associate Professor, Faculty of Humanities Department of Anthropology and Development Studies, University of Johannesburg, South Africa</p> <p>Women in water: Attracting more women to the water sector Lynsey Chutel, Multimedia Journalist, Quartz, South Africa</p> <p>Reducing non-revenue water: the 'how-to-guide'</p>	

	<p>Joseph Ndegeya, Business Development Manager, National Water and Sewerage Corporation, Uganda</p> <p>Solving the acid mine drainage problem Dr Kevin Harding, Senior Lecturer, Wits University, South Africa</p> <p>How to best improve the performance of our wastewater treatment systems Jeremiah Mutamba, Senior Manager: Strategic Programs, Trans Caledon Tunnel Authority, South Africa</p> <p>Digitalisation and what can be expected from the Internet of Things John D Wilson, Head of Business Development IAMA, ABB, United Kingdom</p>	
13:00	Lunch, networking and exhibition viewing	
	SKILLS DEVELOPMENT	WEST AFRICA COUNTRY SPOTLIGHTS
14:20	<p>Putting skills development at the heart of your employee strategy</p> <ul style="list-style-type: none"> Overcoming the skills shortage and conducting a skills audit How to involve and benefit local staff in project developments Developing technology skills and knowledge Partnerships – working with universities Increasing job creation and loyalty International best practice Unions as partners <p>Tsholofelo Mokotedi, Acting Executive Sectoral Collaboration & Stakeholder Engagement, Energy and Water Sector Education and Training Authority (EWSETA), South Africa</p>	<p>The hottest projects in Nigeria and what is being done to open the investment door</p> <p><i>This presentation covers projects from the entire water spectrum</i></p> <p>Benson Ajisegiri, Head of Water Sector Reform and PPP, Federal Ministry of Water, Nigeria</p>
14:50	<p>Skilling the next generation of engineers</p> <ul style="list-style-type: none"> Creating a functional skills policy Funding Prioritising upskilling your current workforce Training and skills development: In-house vs. outsource Predicting future skills needs <p>Stephen Nyende-Byakika, Senior Lecturer, Tshwane University of Technology, South Africa</p>	<p>The hottest projects in Sierra Leone and what is being done to open the investment door</p> <p><i>This presentation covers projects from the entire water spectrum</i></p> <p>Samuel Bangura, Director General, Sierra Leone Water Company (SALWACO), Sierra Leone</p>
	CENTRAL AND NORTH AFRICA COUNTRY SPOTLIGHTS	QUALITY, SAFETY AND HEALTH
15:20	<p>The hottest projects in Angola and what is being done to open the investment door</p> <p><i>This presentation covers projects from the entire water spectrum</i></p> <p>Manuel Quintino, Director of National Institute for Water Resources, Ministry of Energy and Water, Angola</p>	<p>What's in your water? Top tips for improving water quality</p> <ul style="list-style-type: none"> Cost effective ways to improving water quality Treatment technologies to improve water quality Managing algae and taste and odour Biofiltration: Piloting optimisation and monitoring 5 top tips <p>Anthony Okoh, Unit Director, SAMRC Microbial Water Quality Monitoring Centre, South Africa</p>
15:50	<p>The hottest projects in Morocco and what is being done to open the investment door</p> <p><i>This presentation covers projects from the entire water spectrum</i></p> <p>The hottest projects in Egypt and what is being done to open the investment door</p> <p><i>This presentation covers projects from the entire water spectrum</i></p>	<p>Water safety planning: A pathway to universal access to safe drinking water and sanitation and improved service delivery</p> <ul style="list-style-type: none"> Capacity building approaches on water safety plans Innovative policies and regulations for drinking water quality management Auditing water safety plans Water safety plan impact assessment <p>Mapula Mametja, Water Quality Advisor, Rand Water, South Africa</p>
16:20	Close of conference, afternoon tea, networking and exhibition viewing	