



Caribbean Regional Conference

Water Loss 2023

21-23 March 2023 Port of Spain, Trinidad and Tobago

PROGRAMME

Day 1 - Tuesday 21st March 2023
and Day 2 - Wednesday 22nd March 2023

Trinidad Hilton Ballroom		
18:30 - 20:30	Welcome Reception - Day 1	
09:00 - 10:30	<p>OPENING CEREMONY - MAIN HALL - DAY 2</p> <p>WELCOME REMARKS - Permanent Secretary, Ministry of Public Utilities - Nicolette Duke</p> <p>GREETINGS - President, Caribbean Water and Wastewater Association - Marlon Daniels</p> <p>VIDEO PRESENTATION - North Oropouche/Tucker Valley Project</p> <p>ENTERTAINMENT INTERLUDE - Emmanuel Joseph</p> <p>VIDEO PRESENTATION - NRW Pilot Project</p> <p>ADDRESS - Minister of Public Utilities - Honourable Marvin Gonzales</p> <p>EXHIBITION HALL RIBBON CUTTING</p>	
10:30 - 11:15	<p>Ministerial Panel Discussion led by Honourable Marvin Gonzales, Minister of Public Utilities</p> <p>NRW Combating Climate Change</p> <p>Session Chair: Sara Jade Govia</p>	
11:15 - 11:45	Coffee Break	
<p>Plenary Session</p> <p>Session Chair - Stuart Hamilton</p>		
11:45 - 12:05	<p>WASA - Past - Present - Future</p> <p>Ravindra Nanga Trinidad and Tobago </p>	
12:05 - 12:25	<p>NRW Challenges - The Trinidad and Tobago Experience WASA</p> <p>Kelvin Romain Trinidad and Tobago </p>	
12:25 - 12:30	Question and Answer Segment	
12:30 - 13:30	Lunch and Networking	
Technical Session		
	<p>Main Hall</p> <p>NRW management (1)</p> <p>Session Chair: Steve Cavanaugh</p>	<p>Scarlet Ibis</p> <p>Calculation Concepts & International Case Study</p> <p>Session Chair: Katherine Paleracio</p>
13:30 - 13:50	<p>Performance Based NRW Co-Management Contract</p> <p>Garwaine Johnson Jamaica </p>	<p>Recent Practical Improvements in Pressure Management and UARL Calculations</p> <p>Paul Fanner UK </p>
13:50 - 14:10	<p>Quantification of water distribution system zones based on the water losses indicators and the failure index of water pipe network</p> <p>Izabela Zimoch Poland </p>	<p>Using Water Quality Degradation and Customer Complaints as a Monitoring Tool for Water Loss in the Caribbean</p> <p>Nishana Ramsawak Canada </p>
14:10 - 14:30	<p>CWWA and our advocacy to address the Regional Water Loss Challenges</p> <p>Candice Santana Trinidad and Tobago </p>	<p>Using fuzzy logic to provide decision support for water distribution</p> <p>Nadine Sangster Trinidad and Tobago </p>
14:30 - 14:50	<p>Overview of Non-Revenue Water Reduction Programmes Funded by the IDB</p> <p>Gilroy Lewis </p>	<p>Honduras' NRW Challenge</p> <p>Jorge Bellagamba Uruguay </p>
14:50 - 15:10	<p>Key Performance Indicators in KSA & Portmore NRW Co-Management Programs, Jamaica</p> <p>Jermaine G. Jackson Jamaica </p>	<p>Performance Indicators of Water Losses in Drinking Water Supply System - Experiences from Small System in Poland</p> <p>Iwona Klosak-Bazan Czeck Republic </p>
15:10 - 15:40	Coffee Break	
	<p>NRW management (2)</p> <p>Session Chair: Marion Liemberger</p>	<p>Commercial Loss Reduction and Metering</p> <p>Session Chair: Joe Butterfield</p>
15:40 - 16:00	<p>Veolia Aguas de Tunja - 24 Hours of Water Supply</p> <p>Johana Beltrán Barajas Columbia </p>	<p>Commercial Loss Reduction in Kingston</p> <p>Katherine Paleracio Jamaica </p>
16:00 - 16:20	<p>Sustainable NRW Management - Examples & Recommendations for future contractual models</p> <p>Gary Moys France </p>	<p>NRW and Climate Change</p> <p>Kishan Kumarsingh Trinidad and Tobago </p>
16:20 - 16:50	<p>NRW Reduction: Over 3 Million Imperial Gallons per Day in 3 Years</p> <p>Preston Rahming Bahamas </p>	<p>WASA's System Input Volume Monitoring and Data Automation Project</p> <p>Elio Arniella Trinidad and Tobago </p>
18:30 - 20:30	Cultural Night	



Caribbean Regional Conference
Water Loss 2023
21-23 March 2023 Port of Spain, Trinidad and Tobago

PROGRAMME
Day 3 - Thursday 23rd March 2023

08:30 - 09:00	Hoisting of World MET Day 2023 Flag		
09:00 - 9:45	Panel Discussion - Robert Le Hunte USA  - Caribbean Development Bank 		
9:45 - 10:00	Climate Information and Services to Mitigate Water Loss and Non-Revenue Water in the Caribbean Dr. Arlene Laing CMO, Trinidad and Tobago 		
10:00 - 10:30	Launch of the National Integrated Water Resources Management Policy (NIWRM) Honourable Marvin Gonzales, MP Minister of Public Utilities, Trinidad and Tobago 		
Technical Session			
	Main Hall Funding Options in the Water Sector Session Chair: Stuart Hamilton	Scarlet Ibis Technologies Session Chair: Paul Fanner	Flamingo Room Young Water Professionals Workshop Session Chair: Marion Liemberger
11:00 - 11:20	The implications of Inaction: NRW and Water Resources Management Keith Meade Trinidad and Tobago 	Network Zoning and Automation of DMA Water Balance Elio Arniella & IDB USA  	Join the discussion: why have YWP's so little to say/to do for NRW management? Marion Liemberger and Joe Butterfield Brazil and UK  
11:20 - 11:40	Outside Investors Paying for Leakage, Really? Steve Cavanaugh Canada 	Water Loss Management: Digital tool for NRW Reduction David Maisonneuve France 	Seasoned and young professionals are welcome to discuss!
11:40 -13:00	Lunch and Networking		
	Funding Options in the Water Sector (2) Session Chair: Stuart Hamilton	Technologies (2) Session Chair: Joe Butterfield	Young Water Professionals Workshop Session Chair: Sara Jade Govia
13:00 - 13:20	NRW reduction: regional perspectives on the use of performance-based contracts David Erhardt USA 	Best Practice to Reduce Leakage in Troublesome DMAs using Smart Solutions and Technologies Tom Crowder UK 	Join the discussion: Women in the Water Industry - How to we recruit more? Marion Liemberger and Sara Jade Govia Brazil and Trinidad and Tobago  
13:20 - 13:40	Caribbean Development Bank in the Water Sector Dwayne Squires Barbados 	NRW Case Studies from the Caribbean using various Technologies Dyanand Maharaj Trinidad and Tobago 	Join the debate!
13:40 - 13:50	Change to Sessions - Split Rooms		
	Equipment (1) Session Chair: Bambos Charlambous	Hydraulics, Pressure Management and Energy Reduction Session Chair: Tom Crowder	DMAs, NRW Strategy and Leak Detection (1) Session Chair: Jo Parker
13:50 - 14:10	Large NRW on Large Diameter Pipelines Parvesh Dsingh USA 	Hydraulic model as a main tool for water distribution system management Igor Dundovic Croatia 	Water Sector Information Management System (WIMS) for NRW Project Development Candice Santana Trinidad and Tobago 
14:10 - 14:30	Using acoustic technology to transform leak detection programs from reactive to proactive Joseph Butterfield Canada 	Energy Savings through Non-Revenue Water Reduction Andre Brown Jamaica 	An integrated NRW target-setting approach Fabio Garzon Columbia 
14:30 - 14:00	Coffee Break		
	Equipment (2) Session Chair: Katherine Paleracio	International Case Studies (1) Session Chair: Fabio Garzon	DMAs, NRW Strategy and Leak Detection (2) Session Chair: Candice Santana
15:00 - 15:20	Leak detection for Non-Revenue water minimization Ana Cózar Spain 	Pressure Management Implementation in IWS for Transition to CWS Carmen Julia Navarro-Gómez Mexico 	Why PALMS are important for leakage Development Jo Parker UK 
15:20 - 15:40	Determining leak flow rates using permanent acoustic sensing Joseph Butterfield UK 		Leak detection technologies and strategies in Portmore Andre Brown Jamaica 
15:40 - 16:00	Integrating Acoustic Leak Detection into Smart Water Metering Jose D. Mena USA 	Capacity building and human resource issues in Montenegro Andrija Simović Montenegro 	Using Satellite RADAR Imagery to Detect Leaks from Potable Water Pipes John Stevens USA 
16:00 - 16:20	Remote sensing and compliance software to aid in the reduction of Non-Revenue Water and Carbon Emissions Mark French USA 	Examining a Canadian Municipality's approach to NRW and its applicability to the Caribbean Nishana Ramsawak Canada 	Principles required for the formation of DMAs David Merell Guyana 
16:20 - 16:40	Managing Head Loss in Water Transmission and Distribution Systems in Northeast Trinidad Goldie Davies Trinidad and Tobago 	Climate Change Shakeer Baig Trinidad and Tobago 	NRW assessment and strategy design George Sammy Trinidad and Tobago 
16:45 - 17:15	Closing Remarks - Main Hall		