



TECHNICAL SESSIONS

2019

Welcome to the CWWA's 28th Annual Conference and Exhibition

The Technical Sessions takes place between
Tuesday 15th October and Thursday 17th October, 2019 and consist of

- ◆ Technical Seminars
- ◆ Technical Presentations
- ◆ Panel Discussions
- ◆ Trade Presentations

For more information, send an email to cwwatech@gmail.com

What do you need to know about the Technical Sessions 2019?

The Plenary will take place in the Grand Lobby Atrium

The Technical Sessions will take place in three (3) Conference Rooms

- Grenada Room
- Dominica Room
- St Lucia Room

- You can pre-register for all Technical Seminars at cwwatech@gmail.com
- All Technical Presentations and Panel Discussions are open
- All Trade Presentations are open

Technical Sessions Schedule Key

	Technical Seminars
	Technical Presentations
	Feature Technical Presentations
	Panel Discussions
	Trade Presentations
	Closed Sessions

Schedule subject to change

Tuesday

Plenary - Sable Room — 8:30 am to 10:30 am

Keynote Speaker - Prime Minister the Honourable Dr Timothy Harris

Panel Discussion - Securing the Caribbean's future : Financing the Water and Waste Sectors

Time	Tuesday		
	Grenada Room	Dominica Room	St Lucia Room
10:30 am - 11:00 am	Break		
11:00 am - 11:30 am	Water and Energy Nexus - hosted by Canada	Waste as a Problem to Waste as a Resource Bob Paul - Extended Producer Responsibility - An Effective Policy for Encouraging a Circular Economy	Operators without Borders - Caribbean interventions
11:30 am - 12:00 pm		Nicole T Garofano - Managing 'plastics' in SIDS using market-based instruments: case study analysis of Barbados and St Vincent & the Grenadines	
12:00 pm - 12:30 pm		Sian Cuffy-Young - Waste and entrepreneurship - boosting a burgeoning industry	Dr. Viviane Yargeau - Integrating ozonation in sewage lagoons for treating domestic wastewater
12:30 pm - 1:00 pm		Greg Gilles Nevis Island Hamilton Well – Iron and Manganese Treatment Case Study using an Innovative WaterPOD based Oxidation & Filtration Technology with Backwash Recycling	Dr. Shmuel Brenner & Mr. Jonathan Haran - A vision towards a holistic response - the Sargassum Crisis, Waste Management and Green Energy Production
1:00 pm - 1:30 pm	Lunch		
1:30 pm - 2:00 pm	Lunch		
2:00 pm - 2:30 pm	Trade Presentation	Technical Seminar - An Insurance Mutual Covering Natural Disaster Losses for Caribbean Water Utilities Considering the vulnerability to natural disasters of water utilities in the Caribbean region and the varied types of losses resulting from natural disasters, having effective risk transfer solutions tailored to the needs of water utilities is critical to recovery efforts and the resiliency of water supply and treatment systems.	Dr. Quincy A. Edwards - Contaminants of Wastewater Origin in Groundwater in Barbados
2:30 pm - 3:00 pm	Trade Presentation		Sherwayne Liverpool - Recycling of backwash effluent at the shelterbelt treatment: converting waste to resource
3:00 pm - 3:30 pm	Trade Presentation		Special Meeting
3:30 pm - 4:00 pm	Trade Presentation		

4:00pm—5:00pm—Fifth Meeting of the CariWOP Steering Committee - (Invitation Only) - St Lucia Room

Time	Wednesday		
	Grenada Room	Dominica Room	St Lucia Room
8:30 am - 9:00 am	Feature Technical Presentation - Integrating Water, Land and Ecosystems Management (IWEco) as a means of enhancing climate resilience: The case of St. Kitts and Nevis - hosted by Dr Halla Sahely – GEF IWEco St. Kitts and Nevis Project Coordinator	Financing Caribbean Water Projects hosted by National Commercial Bank, Jamaica Limited	Anuradha Maharaj - Representing Surface-Groundwater interactions using a Coupled model: A Study of the Semi-Arid Hailiutu Catchment, China.
9:00 am - 9:30 am			Amarnath Chinchamee & Aruna Rajballie & Navin Ramroop - An Approach to Quantifying Watershed
9:30 am - 10:00 am	Desalination Hour Presentation 1 - Adam Simmonds & Dean Bedford - Sustainable Water Supplies for the Caribbean – The Necker Island Story Presentation 2 - Daniel Villessot - Solar seawater desalination, battery-free, reverse osmosis to produce drinking	Water and Sanitation Infrastructure Financing hosted by the US Environmental Protection Agency	Gayle Soo Chan - Building Resiliency to Climate Change in Ontario: Making the shift to collective impact
10:00 am - 10:30 am			Shalini Ramsaran-Baksh - Building Climate Resilience in the Caroni Basin, Trinidad
10:30 am - 11:00 am	Break		
11:00 am - 11:30 am	Technical Seminar - NRW and how to combat it Stuart Hamilton – Introduction to IWA WLSG and what has been developed to measure and help reduce NRW around the world	Alon Tish - BOOT Financing as a Driver for Increased Capacity and Quality, while Reducing Water Consumption - Case Study	Tomesia Dundas & Melissa Benjamin - Outcomes from improvements in providing safe, adequate potable water
11:30 am - 12:00 pm		Aubery Roberts & Melissa Benjamin - Financing Energy Efficient Climate Resilient Infrastructure for Georgetown City Guyana	Ramchand Jailal & Khemraj Persaud - Provision of Potable Water to the Hinterland Community of Paramakatoi, Region #8, Guyana
12:00 pm - 12:30 pm	Alan Wyatt - Background to NRW in the Caribbean and how it measures up against the rest of the world	Nick St-Georges - Why Public-Private Partnerships (P3's) Projects Are Important for the Caribbean	Christine Thompson - Protecting Livelihood and Empowering of the Rural and Hinterland People through the provision of Clean Drinking Water
12:30 pm - 1:00 pm	Roland Liemberger—10 key steps for designing a successful NRW management PBC - Mark Barnett—Jamaica PBC case study Noam Komy - Bahamas PBC case study Corrine Cathala - how to deal with an NRW program and international finance to deliver it - Jan G. Janssens et al. – Performance-based PPP for Sustainable NRW Reduction to unlock Private Sector Financing	Tesfa Francis—Financing Desalination Projects: the Antigua Experience	Kiera S. Fitzgerald - Breathing New Life into an Old Plant – Saving Resources, Reclaiming Water
1:00 pm - 1:30 pm	Lunch		
1:30 pm - 2:00 pm			
2:00 pm - 2:30 pm	Trade Presentation	Closed Session - (Invitation Only)	Dr. Chris Metcalfe - Challenges in meeting the Sustainable Development Goal 6 for water and sanitation in the Caribbean
2:30 pm - 3:00 pm	Trade Presentation		Kavita Ramnarine-Ramsawak - Comparative Study on Climate Change Impacts and Adaptation of the North and South Oropouche Hydrometric Areas, Trinidad
3:00 pm - 3:30 pm	Trade Presentation		George Woolhouse & Miguel Montoute & Jason Ernest - Solutions to long-term water supply–demand balance challenges: Decision making under uncertainty in the Marquis catchment
3:30 pm - 4:00 pm	Trade Presentation		Richard Atkinson - Development of Dry Season and Drought Management Plans for Trinidad and Tobago

Time	Thursday		
	Grenada Room	Dominica Room	St Lucia Room
8:30 am - 9:00 am	<p>Technical Seminar - Climate Resilience for the Water Sector - Presentation 1 - Integrating Climate Resilience in the Water Sector in the Caribbean: Moving from Regional to National Action – Presented by Mr. George Woolhouse of HR Wallingford and Dr. Yves Robert Personna of Caribbean Development Bank</p> <p>Presentation 2 - Florida (USA) Water and Wastewater Resilience: Planning, Implementation, and Collaboration – Presented by Kevin Carter of Broward County Water and Wastewater Services</p> <p>Presentation 3 - Resilience of the Barbados Water Sector: Utility Management Perspectives - Wainella Isaacs, Guyanese Doctoral Candidate at University of South Florida</p>	Marlon Daniels and Nigel Niles - An Analysis of the Existing Legal Framework for the Determination of a Water Pricing Model for the Integrated Management of the Water Resources of Guyana	Erin Bennett - Watershed restoration as a tool for reducing coastal pollution from extreme rain events in the Caribbean
9:00 am - 9:30 am		Persis Kanaloa Ramirez Ramos - Challenges of IWRM adaptation in the Caribbean: Case study of the Dominican Republic	Dr Nick Jarritt - Building Flood Resilient Communities: Integrated Flood Risk Management in the British Virgin Islands
9:30 am - 10:00 am		Dr. Deon Anderson - An investigative leadership approach towards building competence, bridging the skills gap and transforming the work ethics of water treatment personnel in Guyana	Glendon Diaz & Jason Johnson - Effective Condition Assessment: A Technical Evolution and Industry Leading Approach to Asset Management
10:00 am - 10:30 am		Paul Fanner - Why Are NRW Levels So High In The Caribbean and What Can We Do To Reduce The Need For New Water Resources?	Pieter Doornenbal & Orin Browne & Angela Franklin - Building up knowledge on water resources in Guyana, from fieldwork to water management
10:30 am - 11:00 am	Break		
11:00 am - 11:30 am	Technical Seminar - Water and Wastewater problems – Alternatives and Innovative approaches to funding	Mainstreaming Gender in the Water and Sanitation Sector in the Caribbean - Panel Discussion	Allister Harry & Mark Veerasammy - Production of Alum from locally produced Bauxite in Guyana for Surface Water Treatment
11:30 am - 12:00 pm	Stuart Hamilton – Introduction Noam Komy – Miya – Concessions and the benefits to the water company. David Ehrhardt - Castalia - Public Private Partnerships (PPP) and the benefits of private investment		Presentation Sian Cuffy-Young - Women for change in waste - creation of a movement
12:00 pm - 12:30 pm	Corrine Cathala / IADB – CREW fund and how to fund a wastewater project Mark Barnett – NWC – How a PPP may benefit a water company and the pit falls that may occur en route	Social Media and the Water and Sanitation Sector	Louise Abigail Alfred - Water and other sector synergies
12:30 pm - 1:00 pm		Presentation - Leana Bradshaw - The Paradigm Shift Experienced in Customer Relationships, through Social Media Communication	Marsha Serville - Tracking sources of chemical and biological contamination in the Soufriere watershed, Saint Lucia
1:00 pm - 1:30 pm	Lunch		
1:30 pm - 2:00 pm			
2:00 pm - 2:30 pm	Trade Presentation	<p>Bringing Groundwater to the forefront</p> <p>Presentation 1 - Jawaharlall Ramjug - Estimation of groundwater recharge using a Water Balance approach in Rajasthan, India</p> <p>Presentation 2 - Angela Franklin - Building resilience through groundwater modelling</p> <p>Presentation 3 - Orin Browne - Promoting Economic designs or Water Wells</p> <p>Presentation 4 - Orin Browne - Promoting Water Security Through the Application of Managed Aquifer Recharge</p>	Christine Thompson - Securing Livelihood through the Development of Climate Resilience Infrastructure in North Rupununi, Guyana
2:30 pm - 3:00 pm	Trade Presentation		Jumal Duncan & Nomalraj Bacchus Misir - Provision of Potable Water to the Remote Hinterland Community of Campbelltown, Region #8, Guyana
3:00 pm - 3:30 pm	Trade Presentation		Vanessa Williams - Education : Bridging the gap of social inequality in the Water and Waste water sector of Caribbean
3:30 pm - 4:00 pm	Trade Presentation		