



34th **ANNUAL
CONFERENCE
& EXHIBITION
2025**



Engineering Progress Together:
Collective Action for a
Connected Region.

Guidelines for the Submission of Abstracts and Technical Papers

For the 34th Annual CWWA
Conference and Exhibition

20-24 October, 2025 | San Pedro, Ambergris Caye, Belize, C.A.

Welcome Remarks



Cornelio Acosta Jr.

Executive Chairman

On behalf of the Caribbean Water and Wastewater Association (CWWA), it is my great pleasure to extend our warmest invitation to the 34th Annual CWWA Conference and Exhibition, hosted by Belize Water Services Ltd (BWSL) to be held in the beautiful San Pedro, Ambergris Caye, Belize. This year's theme, "Engineering Progress Together: Collective Action for a Connected Region," underscores the importance of collaboration and innovation in addressing the water and wastewater challenges we face in the Caribbean and Central America.

The Thematic Areas will highlight the vital role that water plays in our lives and the need for sustainable solutions to ensure its availability and quality for future generations. This conference will bring together experts, policymakers, and industry leaders from across the region, providing a platform for sharing knowledge, experiences, and best practices.

The Technical Sessions of this year's Conference is scheduled to be held from the 21st to the 23rd of October 2025. Join us in Belize as we look forward to your submissions to enrich this event.

Thematic Area 1: Empowering Integrated Water Management for Sustainable Prosperity and Climate Action

- Strengthening the Role of Water Professionals in Capacity Development
- Enhancing Resilience in Watersheds and Coastal Zones
- Addressing the Vulnerabilities of Water Systems to Climate Change. (Floods, Droughts, Salinization)
- Challenges and Opportunities for Applying Smart Water Management: From Concept to Practice
- Nature and Community Based approaches for Watershed Management
- Integrated Coastal and Inland Water Management
- Strengthening Institutional Frameworks for Integrated Water Governance
- Balancing Tourism Development with Sustainable Water Use and Conservation
- Transboundary Water Cooperation
- Adaptation to Tourism and Urbanization Pressures
- Promoting Sustainable Groundwater Governance (Abstraction, Contamination, Water Scarcity, Aquifer Recharge)
- Benefits of Cost Reflective Water Tariffs for Socio-Economic Development
- Enhancing Operational Efficiency Through Utility Benchmarking
- Risk Assessment and Management in Water Infrastructure
- Best Practices in Agriculture: Water Use Efficiency in the Face of Climate Change



Thematic area 2: Innovative and Resilient Water Infrastructure for Sustainable Utility Operations

- Transforming and Upscaling Data into Information for Improved Monitoring and Operations
- Optimizing Operations and Maintenance
- Action Plan for Regional Collaboration on Non-Revenue Water (NRW) Improvements
- Cost-Benefit Analysis of NRW Reduction Strategies
- Effective Approaches to NRW Reduction: Methods, Challenges and Recommendations
- Identifying Innovative Funding Mechanisms for Water Infrastructure Projects
- Water-Energy Nexus: Incorporating Smart Technology
- Desalination: Bridging Seawater and Potable Water Supply
- Employing Emerging Technology (Trenchless Technology, AI, Water Conservation, Advanced Filtration)
- Opportunities in Water Resource Monitoring Through GIS, Remote Sensing, IoT, and AI
- Impact of Unstable Energy Supply on Water Extraction and Distribution
- Smart Meter Implementation: Key Challenges and Recommendations
- Challenges of Expansion of Water Systems in Community Planning and Strategic Solutions
- Implementing Green Infrastructure and Renewable Energy in the Caribbean & Latin America
- Decentralized Infrastructure as a Measure to Improve Resilience Through Localized Supply
- Benefits of Preventive and Predictive Maintenance
- Management of Critical Inventory and Spare Parts
- Effective Management of Aged Above and Underground Infrastructure
- Leveraging SCADA & GIS for Smart, Resilient Water and Sewer Utilities
- Reducing Carbon Footprint Through Renewable Energy
- Enhancing Energy Efficiency: Techniques and Best Practices
- Cybersecurity for Water Utilities

Thematic area 3:

Ensuring Clean Water and Sanitation through Effective Wastewater Treatment and Pollution Control

- Nature-Based Solutions for Wastewater Management
- Water Quality and Emerging Pollutants
- Value Added Benefit of Investment in Wastewater Management
- Identifying Innovative Funding Mechanisms for Wastewater Infrastructure Projects
- Advanced Wastewater Treatment and Collection Technologies
- Water Quality Monitoring
- Regulatory Compliance and Policy Development
- Resource Mobilization to Support Wastewater Management (CREW Fund Etc.)
- Public Health and Water Safety
- Sludge Management
- Actions to Achieve SDG 6 Clean Water and Sanitation
- Achieving Sustainability through Water Technology
- Closing The Water Cycle Through Efficient and Innovative Technologies
- Wastewater Reuse
- Community Based/Small-Scale Approaches to Wastewater Management



Thematic area 4:

Promoting Sustainability through Effective Solid Waste Management

- Challenges of Waste Management in Rural Areas.
- Innovative and Advanced Approaches to Solid Waste Management
- Advancing Concepts and Practices in Waste Minimization: A Regional Perspective
- Safe and Effective Management of Hazardous Waste (Medical, E-waste Etc.)
- Coordinated Approaches to Funding Solid Waste Infrastructure
- Regional Case Studies and Best Practices in Waste Characterization and Segregation
- Circular Economy in Solid Waste Management
- Landfill and Leachate Management
- Microplastics & Contaminants of Emerging Concern
- Organic Waste Management
- Coordinated, Inter- Island Approaches to Waste Management (Bulk Transport and Management)
- Waste-to-Energy Solutions for Island Nations

Thematic area 5:

Fostering Inclusive Growth through Community Outreach and Public awareness

- Community Engagement and Social Equity
- Social Media and Community Empowerment
- Empowering Customer Service Teams in the Water & Wastewater Sector
- Improving Customer Service in Water Utilities
- Youth Engagement in Water Stewardship
- Community Engagement Strategies for Gender Inclusion
- Water Access Challenges in Remote Rural Areas
- Public Awareness on Metering as a Mechanism for Water Conservation
- Environmental and Social Safeguards in Water Projects
- Early Warning Systems for Enhanced Disaster Risk Reduction

Thematic area 6: General topics

- Measuring the Success of Water and Wastewater Systems Projects
- Effective Project Management for Water and Wastewater Related Projects
- Safety Protocol in Water Treatment Plants
- Emergency Response and Disaster Risk Management
- Use of Climate Services and Products for Improved Water Management
- Building Resilience to Climate-Driven Disasters in Water and Waste Infrastructure
- Integrated Flood Management
- Centralized Data Management: Benefits, Approaches and Examples
- Promoting Culture Change for Improved Water and Sanitation Management
- The Role of the Water-Energy-Food Nexus in Climate Adaptation
- Strengthening Regional Governance for Sustainable Utility Management

DATES TO REMEMBER

Submission Deadlines:

Abstract submission: **13th June 2025**

Notification of successful acceptance of Abstract: **4th July 2025**

Full Paper Submission: **1st August 2025**

Final Presentation Submission: **19th September 2025**



CALL FOR ABSTRACTS

Authors wishing to present a paper should submit an abstract of no more than 300 words for consideration. Abstracts should be written in standard English and include the following:

- Paper Title,
- Thematic Area,
- Author/s Name/s
- Full Contact Details (including Affiliations).

Only the accepted abstracts will be published in the Conference Magazine. The text of the full papers accepted will be archived in CWWA records for access by Conference participants and members of the CWWA. Authors can bring hard copies for distribution at the Conference.

ABSTRACT FORMAT

- 1.Length: Abstracts are limited to text only and must be no more than 300 words
- 2.Page Size: Letter
- 3.Spacing and Margins: Double spaced with minimum margins at 2.54 cm (1 inch) all around.
- 4.Fonts: Arial at a size of 12 point
- 5.Digital format: Microsoft Word format
- 6.Language: English
- 7.Emboldments: Apply emboldments, italics, underlining, superscripts and subscripts in your main text as you want it to appear in your final abstract.
- 8.Title: Type abstract title on a line with formatting as it would appear in the final paper
- 9.Topic: Place the thematic area from the list provided above the title
- 10.Keywords: Include four keywords relevant to the subject of the abstract.
- 11.Author: List presenting author first and include affiliation name, address, city, and country
- 12.Consideration will be given to technical content, relevance, originality, and overall abstract quality.
- 13.Authors should utilize the enclosed Abstract Submittal Form

SUBMISSION OF ABSTRACTS

- 1.No more than two abstracts per person should be submitted.
- 2.All abstracts are to be submitted electronically using the following electronic form: [Abstract Submittal Forms](#)
- 3.If you have any challenges submitting via the electronic form, kindly submit using the accompanying MSWord form to cwwatechnicalpapers@gmail.com
- 4.All abstracts will be acknowledged electronically. If you do not receive an acknowledgement within 72 hours of submission, please contact the CWWA Technical Papers Committee via the following email address cwwatechnicalpapers@gmail.com.

INSTRUCTIONS FOR THE SUBMITTAL OF SELECTED PAPERS AND PRESENTATIONS ARE LISTED BELOW. THIS ONLY APPLIES TO ABSTRACTS THAT ARE ACCEPTED FOR PRESENTATION.

FINAL PAPER FORMAT

- 1.Length: Paper should not exceed 10 pages including text, photos, and graphics.
- 2.Size: Letter
- 3.Spacing and Margins: Double spaced with minimum margins at 2.54 cm (1 inch) all around.
- 4.Fonts: Arial at a size of 12 point.
- 5.Digital format: Microsoft Word or PDF format.
- 6.Language: English.
- 7.Emboldments: Apply emboldments, italics, underlining, superscripts and subscripts in your main text as you want it to appear in your final paper.
- 8.Images: Include all images (diagrams, charts, JPEG and GIF) to email resolution as you would want it to appear in the final publication.
- 9.Title: Type paper title on a line with formatting as it would appear in the final publication.
- 10.Topic: Place the Conference Thematic area selected from the list provided above the title.

11. Author: Each paper must be accompanied by names and affiliations of all authors; contact addresses for all authors (including email); a short biography of the presenter containing no more than 80 words; a digital copy of a passport photograph of the author/s.

FINAL PRESENTATION FORMAT

1. Speaking Time: Each presenter will be allocated 15 minutes.
2. Question & Answer Session: A Q&A session will be held for 10 minutes at the end of every oral presentation.
3. Format: PowerPoint 2013 or a compatible format.
4. Audio-visual Support: Technical session rooms will be equipped with a projector, screen, and computer.
5. Presentation Specifics: Date, time and meeting room of presentations will be emailed closer to the Conference date.

Submission of Papers and Presentations: All final papers and presentations should be submitted electronically to cwwatechnicalpapers@gmail.com. All submissions will be acknowledged electronically. If you do not receive an acknowledgement within 72 hours of submission, please contact the CWWA Technical Papers Committee via the following email address cwwatechnicalpapers@gmail.com.

COPYRIGHT

Authors of Papers that are accepted by the CWWA Technical Sessions Committee must agree to transfer copyright to the Caribbean Water and Wastewater Association. This signifies transfer rights for print and/or electronic publication and production reprints, facsimile, microfilm or microfiche.

PUBLICATION

The CWWA has partnered with the West Indian Journal of Engineering (WIJE) to publish selected Papers from the 34th Annual Conference and Exhibition in a Special Issue of the WIJE.

Suitable papers accepted at this year's Conference and Exhibition will be submitted to the WIEJ Editorial Board for review and publication. Selection criteria for publication in the Special Issue will include:

- Innovation and originality.
- Impact and significance.
- Presentation including paper organization, methodology, critical analysis, quality, style, sources and language use.

West Indian Journal of Engineering

The West Indian Journal of Engineering (WIJE) is an international journal which has a focus on the Caribbean region. Since its inception in 1967, it is published twice yearly by the Faculty of Engineering at The University of the West Indies and the Council of Caribbean Engineering Organizations in Trinidad and Tobago.