



SESSION DESCRIPTION FORM 2.

10TH WORLD WATER FORUM

This Session Description Form 2 is for the specified program of the session. Please complete this form no later than 28th of February 2024.

**The session description 1 (online form) is separately requested for the session coordinators to deliver a concise session outline with the contact info and the logistical requests.*

Session Code and Title:

Session 2-A-2 : Accelerating Water Quality Improvement - **Avoid, Reduce, Recycle and Reuse to solve the water pollution enigma**

Session Coordinators (Name, Position, Organization, email, mobile number):

Coordinator n° 1: Ismahane Remonnay, Senior VP Foresights & Partnerships R&I - VEOLIA - ismahane.remonnay@veolia.com - +33610163853

Coordinator n° 2 : Prof. Ignasius D.A. Sutapa, Executive Director - Asia Pacific Centre for Ecohydrology (APCE) - UNESCO C2C, Email: ignasd@gmail.com / MP +6281321257235

Session Description including objectives and expected outcomes (500 words maximum):

The circularity of water itself requires rigorously implementing a 3R principle: **avoid and reduce pollution at source, recycle what can be recovered in treatment, and reuse the reclaimed water as an alternative supply option**. Therefore, a dedicated session “water quality improvement”, addresses viable options of source reduction, focuses on governance options (regulation & enforcement) for pollution prevention at point sources and considers socio-economic boundary conditions and acceptance of solutions. Thus, ecohydrological Nature-Based Solutions (EH-NBS) will be discussed for non-point(diffuse) and point pollution sources. Treatment and remediation technologies allowing to protect surface, groundwater and coastal ecosystems from priority and pollutants of emerging concern and providing efficient use of treated wastewater for irrigation purposes in agricultural activities will be the other topics to be covered. Moreover, the session aims to emphasize social engagement necessary to avoid and reduce pollution at source.

Criteria Selection

- all speakers will attend in person
- gender equality (SDG 5)
- representation of different geographies
- private/public balance
- generations balance
- topic

Detailed Session plan : 90 minutes

ID	ESTIMATED TIMING	ITEM DESCRIPTION / ROLE	SPEAKERS	SPEAKERS STATUS (OK OR TBC)
1	7 min	Introduction - Context - Rules	Ismahane Remonnay Prof. Ignasius D.A. Sutapa	OK
2	8 min	The Story	Daniel Nolasco - IWA Vice President	TBC
3	8 min	The Challenges	Rayan Hamada -University of Khartoum Sudan	TBC
4	8 min	The Technologies	Mehdi Sesbou - Suez France	TBC
5	8 min	The Best Practices	Sungwong Jung - Samsung Korea	TBC
6	8 min	The Economic & Regulation Challenges	Christian Fischer - Asian Development Bank Philippines	TBC
7	8 min	The Measure	Prof. Luis Chicharo University of Algarve, Faro Portugal	TBC
8	8 min	The FutureS	Chethika Wadumestrige Dina - Tokyo University Japan	TBC
9	8 Min	Youth Perspective	Kshemaahna Nagi, World Youth Parliament for Water, India	TBC
9	20 min	Q&A	Ismahane Remonnay Prof. Ignasius D.A. Sutapa	To prepare 2 questions for each speakers
10	7 min	Conclusion & Next Steps	Ismahane Remonnay Prof. Ignasius D.A. Sutapa	(Outcomes of the session - to continue the discussion through digital platform for creating a document”

Short Description of the different topic

ID	Speaker	Item	Description
0	Ismahane Remonnay Prof. Ignasius D.A. Sutapa	Introduction	Objectives, Keywords, Speakers and the outcome expected
1	Daniel Nolasco - IWA	The Story	To highlight the major milestone of the water quality journey: where we are? Why are we here? Quality & Quantity, two sides of the same coin
2	Rayan Hamada -University of Khartoum Sudan	The Challenges - Focus on the quality/pollution challenges	What are the challenges in terms of water quality?
3	Mehdi Sesbou - Suez France	The Technologies	From the past to the future, the key milestones (low techs, advanced techs, digitalization & AI, nature-based techs, biomimetisme ...)
4	Sungwong Jung - Samsung Korea	The Best Practices	An integrated water supply & wastewater treatment model including Waste to Energy conversion on the initial stage of developing “Concept HUB Resources”
5	Christian Fischer - Asian Development Bank Philippines	The Economic & Regulation Challenges	The new economics of Water and the new regulations paradigm to accelerate the access to water for all and the improvement of quality water
6	Prof. Luis Chicharo / Dr. Giuseppe Arduino University of Algarve, Faro Portugal	The Measure	The futures of the measure/monitoring for the water quality for all: the keys to prevent the pollution, adapt the treatment and repair the water cycle
7	Chethika Wadumestrige Dina - Tokyo University Japan	The Futures	Which pragmatic futures for water quality improvement? the megatrends that could reshape the water cycle
8	Kshemaahna Nagi, World Youth Parliament for Water, India (18 years old)	Youth Perspective	What is the vision of the futures generations on water quality?
9	Ismahane Remonnay Prof. Ignasius D.A. Sutapa	Q&A	Ismahane Remonnay & Prof. Ignasius D.A. Sutapa will moderate the subsection Q&A and provide the conclusion of the subsection

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