

STI FORUM



Science, Technology & Innovation for
the Sustainable Development Goals

Engineering solutions for water adaptation

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José Vieira
WFEO President



Ignacio Gonzalez-Castelao
Chair, WFEO Ctee on Water



João Paulo Lobo-Ferreira
Principal Research Officer, LNEC



Qian Yu
Senior engineer, IWHR



Innocent Nhapi
Water Sector Ctee, FAEO



Martin Manuhwa
Chair, WFEO Ctee on
Capacity Building



Pang Chee Meng
Chief Engineering &
Technology officer, PUB

Side Event organized by WFEO at the UN 2023 STI Forum

Register here: bit.ly/43cws6X

Climate change and the consumption patterns of today's society have increased the pressure on all natural resources, especially water. Not only have global water demands grown exponentially in recent years, but a very high percentage of wastewater returns to ecosystems without being treated or reused, polluting our rivers, environment and biodiversity.

Droughts and floods are also increasingly perceived by society as the visible face of climate change. Faced with this situation, humanity must adapt to these new scenarios. In this side event we will present different examples of engineering that allow for greater sustainability, circularity and resilience of this resource.

Speakers will be:

- **Prof. José Vieira** – WFEO President
- **Dr. Ignacio González-Castelao** – Chair of the WFEO Committee on Water
- **Dr. João Paulo Lobo-Ferreira** – Principal Research Officer at the Laboratório Nacional de Engenharia Civil (LNEC), Portugal – *Portugal's river basin management plans: groundwater innovative methodologies, diagnosis, and objectives*
- **Dr. Qian Yu** – senior engineer at the China Institute of Water Resources and Hydropower Research (IWHR) – *Adapting to climate change: engineering support water security*
- **Prof. Innocent Nhapi** – Federation of Africa Engineering Organisations Water Sector Committee – *Capacity Building in Water Infrastructure Development and Maintenance in Africa – A Robust Response to Covid-19 and beyond*
- **Eng. Martin Manuhwa** – Chair of the WFEO Committee in Engineering Capacity Building – *Acceleration of the Achievement of SDG6 through Use of Disruptive Technologies Applicable to the Water Sector in Africa*
- **Dr. Pang Chee Meng** – Chief Engineering & Technology officer at Public Utilities Board (PUB) (Singapore's national water and coastal protection agency) - Singapore's Water Journey: Sustainability, Circularity, Resilience in the Era of Climate Change