WWCH 2020 Tentative Challenge List

World Water Challenge (WWCH) 2020

Main Topic	Tentative Challenge
Water and Health	**(Challenge) Scale-up of WASH for Public Health**
	(Keywords) Water, Sanitation, Hygiene (WASH), water-borne diseases, wastewater, water quality, handwashing, sanitation facilities, public health infrastructure,
	(Challenge) Efficient Method for Wastewater Surveillance to Detect Spread of Disease
	(Keywords) wastewater management, sewage, prevention, early warning system, monitoring wastewater for viral loads, emerging pollutants, contaminated waste, pharmaceuticals, industrial waste, microbial risk, hazardous material, water treatment
Efficient Water Management	**(Challenge) Integrated Management of Diversified Water Resources**
	(Key words) water supply in an isolated tropical area, rehabilitation of deteriorated infra, policy for integrated water management, governance for transboundary and shared water resources
	(Challenge) Innovating Financing for Local Water Solutions
	(Key words) circular economy
Resource Recovery from Water and Wastewater System	**(Challenge) Energy Efficiency in Sewage, Waste water, and Sea Water Recycling and Reuse**
	(Key words) energy consumption
	(Challenge) NEXUS for Efficient Utilization of Limited Water Resources and Energy Recovery
	(Key words) water recycle, water-food-energy nexus, RO(Reverse Osmosis), renewable energy
Water and Natural Disasters	**(Challenge) Flood Prevention and Management for Sustainable Water Cycle and Urban Regeneration**
	(Key words) climate change, flood prevention, sustainable management
	(Challenge) The Depletion and Pollution of Water Caused by Climate Change
	(Key words) climate change, drought management, water shortage
Smart Water Technologies	**(Challenge) ICBM, ICT based Water Management**
	(Key words) water management, urban regeneration, intelligent public sewage treatment facilities, big data utilization, internet of things, IoT water management
	(Challenge) 'Smart' Solutions for Water Management : Definition and Case of 'Smart Solutions' by Region, Sector, and Target
	(Key words) simple technologies to save water in irrigation, innovative management to prevent flood or drought
Ecosystem and Water	**(Challenge): Nature-based Solutions for Ecological Recovery and Reinstate Natural Process of Rivers**
	(Key words) green infra, environmental flow, river restoration, ecosystem service
	(Challenge) Ecological Urban Water Cycle in Adaptation of Climate Change
	(Key words) utilizing LID and GI, resilience cities, ecological flow