



## THEMATIC SESSION 5C

### Freshwater Biodiversity Restoration: Nature-based Solutions

🕒 16:00-18:05, 25 September 2024, Wednesday

📍 Beijing International Convention Center, Room 305#-AB

Nature-based Solutions (NbS) is an emerging concept that first appeared in the World Bank's report "Biodiversity, Climate Change, and Adaptation : Nature-based Solutions from the World Bank Portfolio" in 2008. NbS has become an important means and solution for the world to deal with a variety of ecological and environmental issues, including climate change, biodiversity loss, water-food-energy security, and so on. The International Union for Conservation of Nature (IUCN) defines NbS as actions to protect, sustainably manage and restore natural and modified ecosystems that effectively and adaptively address societal challenges, simultaneously providing human well-being and biodiversity benefits. NbS can address multiple societal challenges within the basin (including climate change mitigation and adaptation, biodiversity conservation, water security, etc.), by utilizing ecosystem service functions (such as hydrological regulation and habitat creation) provided by the natural ecosystem of the basin. Through a series of intervention measures including ecosystem protection, restoration and management, the dual goals of basin ecological environment protection and sustainable economic and social development can be achieved. At present, the importance of NbS has been widely recognized by the international community. As a key method to achieve the Sustainable Development Goals (SDGs), NbS has been rapidly promoted by the European Union, the World Bank and the United Nations Environment Programme. China is also making the NbS a central part of its environmental policy. The theme "Freshwater Biodiversity Restoration: Nature-based Solutions" highlights the need to share experiences, build consensus, and work together to build a future of harmony between humanity and nature.

#### SUB-THEME:

Water and Watershed Ecosystem

#### ORGANIZER(S):

Changjiang River Scientific Research Institute; International Centre for Water Security & Sustainable Management under the auspices of UNESCO (UNESCO i-WSSM); Universiti Sains Malaysia; Changjiang River ecological Environment Engineering Research Center

## PROGRAM

<b>16:00-16:10</b>	<b>Opening</b>	<b>Moderator: XU Quanxi, Changjiang River Scientific Research Institute</b>
16:00-16:05	Welcome remarks and introduction of speakers	<b>XU Quanxi:</b> President, Changjiang River Scientific Research Institute
16:05-16:10	Opening address	<b>LIU Dongshun:</b> Director, Changjiang Water Resources Commission of the Ministry of Water Resources
<b>16:10-16:50</b>	<b>Speeches and discussion</b>	<b>Moderator: XU Quanxi</b>
16:10-16:30	Presentation	<b>WU Fengchang:</b> Academician, Chinese Academy of Engineering
16:30-16:50	Ecological scheduling Research and Practice in the Yangtze River Basin	<b>WU Daoxi:</b> Deputy Director, Changjiang Water Resources Commission of the Ministry of Water Resources
<b>16:50-18:00</b>	<b>Speeches and discussion</b>	<b>Moderator: Dongkyun Kim, UNESCO i-WSSM</b>
16:50-17:00	Reversing the Water Cycle: Our energy and land use are changing to meet the climate, pollution and biodiversity loss crisis, how should our use of water also change to become truly sustainable.	<b>Simon Spooner:</b> Associate Director/AtkinsRéalis Fellow for Water Quality and Carbon, ATKINS (UK)
17:00-17:10	Presentation	<b>YANG Wenjun:</b> Deputy President, Changjiang River Scientific Research Institute
17:10-17:20	Enhancing Biodiversity through the Bio-Ecological Drainage System (BIOECODS): A Nature-Based Solution for Sustainable Stormwater Management in Malaysia	<b>Chang Chun Kiat:</b> Deputy Director, River Engineering and Urban Drainage Research Centre, Engineering Campus, Universiti Sains Malaysia
17:20-17:30	Innovate the urban water management, helping the Yangtze River conservation	<b>YIN Wei:</b> Deputy Director, Changjiang River ecological Environment Engineering Research Center
17:30-17:40	Nature Restoration law and the promotion of Nature-based Solutions for River Restoration in Europe	<b>Ana Mendes:</b> Principal Researcher, University of Évora
17:40-17:50	Presentation	<b>XU Jijun:</b> Deputy Chief Engineer, Changjiang River Scientific Research Institute
17:50-18:00	Presentation	<b>Nam-II Won:</b> Executive Director, Strategy and Planning Office, GeoSystem Research Corporation
<b>18:00-18:05</b>	<b>Conclusion</b>	<b>Moderator: YANG Wenjun, Changjiang</b>

		River Scientific Research Institute
18:00-18:05	Closing remarks	<b>YANG Wenjun:</b> Deputy President, Changjiang River Scientific Research Institute

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