



THEMATIC SESSION 3C

Urban Flooding and Emergency Measures in Extreme Rainfall Events

🕒 14:00-15:30, 25 September 2024, Wednesday
📍 Beijing International Convention Center, Room 305#- E

Urban flooding is triggered by extreme rainfall events. In recent years, the frequency of extreme weather events has increased, exacerbating urban flooding issues. For example, the extreme rainfall events in Zhengzhou 7·20 (2021), Beijing 7·31 (2023), and Nanning 5·19 (2024), caused significant urban flooding. Urban flooding not only causes substantial damage to transportation and infrastructure but also poses a threat to residents' safety.

The causes of urban flooding are complex, involving both natural factors such as monsoon climates and heavy rainfall, and human factors such as surface hardening and lagging drainage facilities due to urbanization. Therefore, strengthening urban flood management (forecasting, early warning, rehearsal, and contingency planning) is crucial for public welfare and the sustainable development of cities. It is also essential for ensuring the safe operation of cities and creating healthy living environments.

OBJECTIVES:

1. Share experiences and best practices in addressing urban flooding from different regions.
2. Explore the application of new technologies in urban flood monitoring and early warning.
3. Develop emergency plans and measures to enhance urban emergency management capabilities.
4. Promote multi-party cooperation to jointly address the challenges of urban flooding caused by extreme weather events.

EXPECTED OUTCOMES:

1. Sign multi-party memoranda of understanding (MOUs) to collaborate on urban flood emergency response.
2. Promote the establishment of urban flood early warning systems, utilizing big data and AI technologies to improve monitoring, forecasting and early warning capabilities.
3. Propose a series of policy recommendations for governments at all levels to improve urban drainage systems and emergency response mechanisms.
4. Form a cross-departmental and cross-regional collaboration network to collectively enhance urban resilience to extreme rainfall events.

SUB-THEME: Water Disasters and Climate Change

ORGANIZER (S):

- ◆ China Institute of Water Resources and Hydropower Research
- ◆ Yellow River Engineering Consulting Co. Ltd
- ◆ Gomal Daman Area Water Partnership

Moderators:

- **ZHAO Yinliang:** Director-general, Shandong Yellow River Administration Bureau, YRCC
- **Muhammad Aslam Khan:** Chairman, Global Damaan Area Water Partnership

PROGRAM

Time	Opening	Moderator: ZHAO Yinliang
14:00-14:03	Welcome remarks and introduction of session	ZHAO Yinliang: Director-general, Shandong Yellow River Administration Bureau, YRCC
14:03-14:08	Opening Address	MA Yonglai: Deputy Director, Yellow River Conservancy Commission
14:08-14:16	Presentation	AN Xindai: Chairman, Yellow River Engineering Consulting Co., Ltd (YREC)
14:16-14:24	Presentation	Muhammad Aslam Khan: Chairman, Gomal Daman Area Water Partnership
14:24-14:32	Presentation	LIU Jiahong: Deputy Director, Institute of Water Resources, Hydraulic Research Institute
14:32-14:40	Presentation	Kyung Taek LIM : Senior Researcher, K-Water
14:40-14:48	Presentation	Frans H.M.van de Ven : Strategic advisor/Senior expert Urban Land&Water Management, Deltares
14:48-14:56	Presentation	Jongmin kim : Korea Institute of Civil Engineering
14:56-15:04	Presentation	BAO Zhenxin: Professional Engineer, Nanjing Hydraulic Research Institute
15:04-15:12	Presentation	Van Thanh Van Nguyen: Brace Endowed Chair Professor of Civil Eng, McGill University
15:12-15:22	Panel Discussion	Moderator: ZHAO Yinliang
15:22-15:27	Closing Remarks	Moderator: Muhammad Aslam Khan
15:27-15:30	Group Photo	

For more information about the 3rd Asia International Water Week, please visit <https://3-aiww.scimeeting.cn>.