Mini Symposium

"Reshaping Rivers: Hydro-Hazards, Human Impacts, and Predictive Modelling in a Changing Climate"

Earth Observatory of Singapore (EOS), Nanyang Technological University (NTU)

Friday, 27 June 2025 (10.00 am to 5.00 pm)

Objective: To share knowledge particularly in Mekong region, leading to close collaboration and development of a research grant (e.g. MOE Tier 1/Tier 2).

Venue: EOS Meeting Room at N2 Section A (N2-01a-12), NTU

Co-organized by: EOS-NTU and Kyoto University

Moderator: Dr. Dung Duc Tran

Item	Agenda topic	Time (Singapore GMT + 8)	Speaker
1	Opening and Introduction of Participants	10:15 – 10:30	**Edward Park & Dung Duc Tran** Nanyang Technological University
2	**Keynote:** Hydro-Hazards and Morphological Changes in High-Risk Regions: Impacts of Climate Extremes and Human Activities	10:30– 11:30	**Sameh Ahmed KANTOUSH** Kyoto University
Coffee Break: 11:30 – 11:45 (15 minutes)			
3	Multidimensional impacts of riverbed sand mining on geomorphological change and water transfer rate: A case study in Central Vietnam	11:45 – 12:00	**Binh Quang NGUYEN** Kyoto University
4	Sustainable mining zones: a multi-criteria framework for balancing sand extraction and river integrity in the Mekong Delta	12:00 – 12:15	**Sonu Kumar** Nanyang Technological University
5	Eco-morphodynamic modeling of interaction between fluvial morphology and riparian vegetation	12:15 – 12:30	**Choi Hun** Korea Institute of Civil Engineering and Building Technology

6	Teleconnections and climate change: Dual forces behind extreme hydro-hazards	12:30 – 12.45	**Hadir Abdelmoneim** Kyoto University
7	Sediment yields and discharge regimes under climate change and human impacts in Peninsular Malaysia	12:45 – 13:00	**Jiachun Huang** Nanyang Technological University
	Lunch Buffet: 13:00 to 14:00 (60 minutes)		
8	Monitoring bio-geomorphological change related with short-term hydrological variations in an active sandy river	14:00 – 14:15	**Chanjoo Lee** Korea Institute of Civil Engineering and Building Technology
9	Perception and awareness of sand mining impacts in the Vietnamese Mekong Delta from social investigations	14:15 – 14:30	**Dung Duc Tran** Nanyang Technological University
10	Intensified susceptibility to morphological alterations under anthropogenic activities impacts in the Vietnamese Mekong Delta	14.30 – 14.45	**Menna Ahmed** Kyoto University
11	Significant effect of green light on evapotranspiration at the landscape scale	14:45 – 15:00	**Yikang Feng** Nanyang Technological University
12	Advanced Machine Learning Techniques for Flood Hazard Mapping and Forecasting of Suspended Sediment Concentration and Flow Discharge	15:00 – 15:15	**Mohamed SABER** Kyoto University
	Coffee Break: 15:15 – 15:30 (15 minutes)		
13	Visit of EOS Labs	15:30 – 16:30	**Xianfeng Wang** Nanyang Technological University

Each presentation is about 15 minutes (10 minutes for presentation, 5 minutes for Q&A)

LIST OF PARTICIPANTS

1. Sameh Ahmed Kantoush (Kyoto University)
2. Mohamed Saber (Kyoto University)
3. Binh Quang Nguyen (Kyoto University)
4. Menna Ahmed (Kyoto University)
5. Hadir Abdelmoneim (Kyoto University)
6. Choi Hun (Korea Institute of Civil Engineering and Building Technology)
7. Lee Chanjoo (Korea Institute of Civil Engineering and Building Technology)
8. An Seong Gi (Catholic Kwandong University Korea)
9. Edward Park (Nanyang Technological University)
10. Sonu Kumar (Nanyang Technological University)
11. Yuen Kai Wan (Nanyang Technological University)
12. Dung Duc Tran (Nanyang Technological University)
13. Huang Jiachun (Nanyang Technological University)
14. Feng Yikang (Nanyang Technological University)
15. Wu Chengcheng (Nanyang Technological University)
16. Wang Yuhao (Nanyang Technological University)
17. Abhishek Kurmi (Nanyang Technological University)
18. Wang Jingyu (Nanyang Technological University)
19. Raju Pathak (Nanyang Technological University)
20. Li Junjun (Nanyang Technological University)
21. Dong Luojie (Nanyang Technological University)
22. Wong Meei Chyi (Nanyang Technological University)
23. Wang Xianfeng (Nanyang Technological University)
24. River He (Nanyang Technological University)
25. Lin Ke (Nanyang Technological University)
26. Jariya Kayee (Nanyang Technological University)
27. Yuan Shufang (Nanyang Technological University)
28. Zhang Yi Lin (Nanyang Technological University)
29. Bernie Wee Wei Ken (Nanyang Technological University)
30. Lim Jing Ying (Nanyang Technological University)
31. Nicola Turner (Nanyang Technological University)