

Conference on Flood Catastrophes in a Changing Environment 2018 (CFCCE'18)

Conference on Flood Catastrophes in a Changing Environment 2018 (CFCCE'18) was hosted by Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences, co-organized by Centre for Environmental Sustainability and Water Security (IPASA) Universiti Teknologi Malaysia (UTM), Asian Network on Climate Science and Technology International Steering Committee (ANCST), Southeast Asia Disaster Prevention Research Initiative (SEADPRI) Universiti Kebangsaan Malaysia (UKM), Key Laboratory of Watershed Geographic Sciences, Chinese Academy of Sciences (WSGS) and Poyang Lake Aquatic and Wetland Ecosystem Observation and Research Station, CAS.

About 9 invited speakers with 71 participants from 16 universities or centres met in Nanjing, China, from 15th to 18th November 2018 to exchange ideas or philosophies and excellent practices, build then strengthen collaborations, and converse the research topics regarding CFCCE'18. The papers presented during the conference are being invited to submit for Special Issue on Hydrology Research.

Rapid development of urbanization affects the green space for rainwater retention is greatly reduced those initiating flood catastrophes all over the world. Consequently, flood risk reduction and sustainable water resources growth are significant to be focused globally. The conference comprises multidisciplinary researches that conventionally assisting studies and activities related to disaster risk reduction and management, besides climate change variation and modification through analysis and other services. The subsequent conference is provided keynote speeches by professional researchers, exchange of research findings (research presentations) including scientific field trip.

Following the CFCCE 2018 in Nanjing, the Chair of the Conference has organized a Special Issue of "Flood Catastrophes in a Changing Environment" on Hydrology Research. This Special Issue of *Hydrology Research* will present the latest research outcomes on floods, and provide a forum for researchers and managers to share the latest research outcomes on floods in typical areas around the world.

On the following topics:

- Climate change and floods
- Human activities and floods
- Prediction of flood events
- Flood mitigation in urban areas
- Watershed flood management
- Transboundary effects and issues on floods

INTERNATIONAL COORDINATING COMMITTEE

Chairman: Professor Qi Zhang, Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences (NIGLAS)

(http://wsgs.niglas.cas.cn/english/Staff/Professors/201601/t20160115_323131.html)

Co-chairman: Professor Zulkifli Yusop, University Teknologi Malaysia

(<http://www.utm.my/ipasa2017/professor-dr-zulkifli-yusop/>)

Members include:

- Professor Lu Zhang, Nanjing Institute of Geography and Limnology, CAS
- Professor Qing Zhu, Nanjing Institute of Geography and Limnology, CAS
- Associate Professor Xiaolong Wang, Nanjing Institute of Geography and Limnology, CAS
- Associate Professor Xianghu Li, Nanjing Institute of Geography and Limnology, CAS
- Associate Professor Yunliang Li, Nanjing Institute of Geography and Limnology, CAS
- Dr. Kogila Vani Annammala, Department of Water and Environmental Engineering, School of Civil Engineering, University Teknologi Malaysia
- Dr. Nor Eliza Alias, Department of Water and Environmental Engineering, School of Civil Engineering, University Teknologi Malaysia
- Dr. Zhiqiang Tan, Nanjing Institute of Geography and Limnology, CAS
- Dr. Sanyuan Jiang, Nanjing Institute of Geography and Limnology, CAS
- Dr. Jing Yao, Nanjing Institute of Geography and Limnology, CAS
- Dr. Dan Zhang, Nanjing Institute of Geography and Limnology, CAS
- Dr. Hui Xie, Nanjing Institute of Geography and Limnology, CAS
- Dr. Yongwei Liu, Nanjing Institute of Geography and Limnology, CAS



Picture 1: Official Group picture of the conference.

The CFCCE'18 is encompassed by 9 keynote speeches and 71 oral presentations from China, Norway, Malaysia, Indonesia and Philippines whom are professionals in flood catastrophes related fields. Topics presented by the keynote speakers are as follows:

- Climate Change and Flood Risk Manageemnt by Prof. Chongyu Xu, from University of Oslo, Norway
- Flood Risk in a Range of Spatial Perspectives – from Global to Loca by Prof. Tong Jiang, from Nanjing University of Information Science and Technology, National Climate Center CMA, China
- Activities of the university of the Philippines nationwide operational assessment of hazards(UP NOAH); by Camille A. Cuadra, from UP Resilience Institute and NOAH Center, Philippines (representative of Prof. Alfredo Mahar Francisco A. Lagmay, from National Institute of Geological Sciences, University of the Philippines)
- Flood risk assessment with high spatial resolution for flood disaster mitigation under climate and landuse changes scenario; by Dr. Apip, from Indonesian Institute of Sciences (LIPI), Indonesia
- Potential application of hydrological ensemble prediction in forecasting flood and its components over the Yarlung Zangbo River Basin, China by Prof. Yueping Xu, from Zhejiang University
- Flood forecasting of small and medium rivers based on the hydrological big data by Prof. Zhijia Li, from Hohai University
- Impacts of climate change on water resources and flood in Huaihe River basin, China by Prof. Guoqing Wang, from Nanjing Hydraulic Research Institute (NHRI)
- Projection of floods under future climate changes–model development and application in Poyang Lake catchment by Prof. Qi Zhang, from Nanjing Institute of Geography and Limnology, CAS



Picture above from Left: Dr.Nor Eliza Alias (IPASA- UTM), Prof Zulkifli Yusop (IPASA-UTM), Prof Qi Zhang (CAS, Nanjing), Prof Chingyu Xu (University of Oslo,Normway), Prof Guoqing Wang (NHRI, China) and Dr. Kogila Vani Annammala (IPASA-UTM)



Picture above: Some of the conference attendees during the plenary session.



Picture above: Prof. Chongyu Xu (Invited Speaker) from University of Oslo, Norway. Professor of Hydrology at the Department of Geosciences, University of Oslo, Norway. Academician of the Norwegian Academy of Science and Letters. Academician of Norwegian Academy of Technological Sciences.



Picture above: Prof Tong Jiang (Invited speaker) whom is also director of the Institute for Disaster Risk Management in the Nanjing University of Information Science and Technology. Dr. Jiang is an Associate Editors for the Climate Services and Atmospheric Research Journal up to now.



Picture above: Professor Zulkifli Yusop , The co-chairman of CFCCE'2018, Dean of Resource Sustainability Research Alliance Universiti Teknologi Malaysia and a member of Centre for Environmental Sustainability and Water Security (IPASA).



Picture above: The Chairman of the CFCCE'2018. Prof Qi Zhang from Nanjing Institute of Geography and Limnology CAS. also acts as the Executive Deputy Director of Key Laboratory of Watershed Geographic Sciences, Chinese Academy of Sciences



Picture above: Application of environmental forensic approach for flood mitigation–Case studies in Malaysia by Dr. Kogila Vani Annammala (IPASA-UTM)



Picture above: Oral presentation by Dr.Nor Eliza Alias from IPASA-UTM entitled Considering a Trans-boundary Regional Extreme Rainfall Homogenous Region for Climate Change Analysis



Reported on behalf of Special Topic Group 8: Flood and
Anthropogenic Activities

by: Dr. Kogila Vani Annammala
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