INTRODUCTION

The world is constantly being devastated by unpredictable disasters. Years of civilization of a nation can simply be shattered by a disaster such as tsunamis, in a matter of hours. Flooding has been one of the most devastating natural disasters striking many parts of the world. The increasing trend in flood disasters has resulted from the combined impacts of several factors including global warming effects (such as increasing frequency of intense rain, glacier melting and sea level rise) land-use changes and growing number of population in flood prone areas.

Flood Control Research Centre, Faculty of Civil Engineering, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia will organize the 2nd International Symposium on Flood Research and Management (ISFRAM2015). The symposium will be held from 5th to 7th October 2015 at Hotel Grand Blue Wave, Shah Alam, Malaysia.

CALL FOR PAPERS

The symposium aims to share experiences and research in flood related studies and sustainable management from researchers and scientists local and abroad. Areas covered are:

- Flood Studies,
- Flood Modeling and Simulation,
- Flood Control,
- Flood Mitigation,
- Flood Forecasting and Warning System,
- Advances in Flood Research,
- Flood Damage and Assessment,
- Numerical Weather Prediction,
- Rainfall Analysis,
- Storm, Hurricane, Typhoon, Tornado, Cyclone,
- Atmospheric Modeling,
- Estuary and Tidal Impact,
- Weather Radar Application,
- Hydro-Meteorology,
- Remote Sensing,
- Satellite Application,
- GIS,
- Land Use and Land Cover Change,
- River basin management,
- Hydrology,
- Hydraulic,
- Flood solution,
- Climate change,
- Flood economy,
- Cost Benefit analysis,
- Sustainable management,
- Water Quality,
- Environmental Sustainability.

The accepted conference papers will be published by Springer and to be submitted for inclusion in ISI Thomson Index

CONTACT

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IMPORTANT DATES

Symposium Date:
5th - 6th October 2015
Workshop Date:
6th October 2015
Technical Visit Date:
7th. October 2015
Deadline for Full Paper Submission:
10th July 2015
Notification of Acceptance:
1st August 2015
Deadline for Early Bird Registration:
1st September 2015

FEES

Presenter : **RM 1100/paper**
Additional Paper : **RM 800/paper**
Symposium Participant : **RM 800**
Workshop : **RM 400**

KEYNOTE SPEAKER

Tan Sri Dato' Sri Prof. Ir. Dr.
Sahol Hamid bin Abu Bakar
Vice Chancellor of UiTM

Assoc. Prof. Dr. Sunmin Kim
Kyoto University

WORKSHOP: FLOOD MODELLING AND RADAR APPLICATION

Flood occurrence is the result of the interactions between the weather system, the watershed, and channel hydraulic. Atmospheric variability, coupled with climate change, poses great difficulty to accurate and timely prediction of extreme rainfall events. Meanwhile, rapid and rampant development has resulted in continuous alteration of the catchment land use and surface flow path, hence increased surface runoff which repeatedly exceeds past observations. In addition, flood plain encroachment, sedimentation and other issues related to the retention and conveyance of flood water further aggravates the flooding problem. The workshop comprises 4 lectures on radar rainfall prediction, use of geostationary satellite images for quantitative rainfall estimates (QRE), hydrological and hydraulic modeling. The focus is on the application of computational tools in flood prediction and simulation. The concept, approach, and strategy in numerical computation will be presented.

WORKSHOP SPEAKERS

Dr Lee Wei Koon is a civil engineering graduate from Universiti Teknologi Malaysia (UTM). He obtained his master degree by research in Nanyang Technological University (NTU), Singapore, and his doctorate from Oxford University, UK. Dr Lee's research interest includes coastal hydrodynamics, hydraulics, hydrology, and fluid-related problem such as mixing. His expertise is in numerical computation and modeling. He will speak on depth-averaged shallow water flow, including the governing equation, discretization, source-term treatment, adaptive grid generation, convergence test, initial and boundary conditions, and techniques of numerical solution.

Dr Jazuri Abdullah completed his PhD in Civil Engineering at Colorado State University, USA and received his M.Sc. degree in Water Resources Engineering and Management from the University of Stuttgart, Germany and B.Eng From Universiti Teknologi MARA. His research interests are hydrological modeling, statistical approach in climate analyses and hydrodynamics and sediment transport modeling system. He will speak on existing hydrological models in determining the rainfall-runoff relationship. Among the topics to be discussed include the selection of model complexity (e.g. 1D, integrated 1D-2D, 2D and 3D model), and the criteria for model selection. Some of the significant findings from previous studies using different hydrological model(s) will be highlighted.

Dr Sunmin Kim received his doctorate degree from Kyoto University, Japan with dissertation entitled Stochastic Real-Time Flood Forecasting Using Weather Radar and a Distributed Hydrologic Model. His past and current researches include weather radar and hydrology, real-time flood forecasting with weather radar observation, flood forecasting using pre-processing of ensemble numerical, short-term rainfall prediction, stochastic radar image extrapolation and climate change impact. He will lecture on weather radar and hydrology, use of weather radar in real-time flood forecasting and advances in flood forecasting technique using weather radar- Japan experience.

Dr Wardah Tahir is a graduate from Cornell University, New York ,USA. She obtained her MSc in Water Resources from Birmingham University, UK and PhD in Civil Engineering from Universiti Teknologi Mara, Malaysia. She has completed various researches in flood frequency analysis, design flood estimation, river modeling and flood simulation, and use of geostationary meteorological satellite, weather radar and numerical weather prediction model products for hydro-meteorological flood forecasting. She has developed two flood related software named DeFlood GS (patented) and GMS-Rain. She will lecture on the use of geostationary meteorological satellite images for rainfall estimation and application of radar rainfall for flood forecasting in Malaysia.

ORGANIZER

FLOOD CONTROL RESEARCH CENTER
FACULTY OF CIVIL ENGINEERING

UNIVERSITI TEKNOLOGI MARA

COLLABORATORS

Universität Stuttgart

JABATAN PENGAIRAN DAN SALIRAN MALAYSIA