

NATIONAL CONFERENCE **ON** SCIENCE, TECHNOLOGY & INNOVATION FOR DISASTER RISK REDUCTION

5-6 October 2017 | Puri Pujangga, UKM Bangi



INTRODUCTION

The Sendai Framework for Disaster Risk Reduction (2015-2030) was agreed at the Third United Nations World Conference on Disaster Risk Reduction in Sendai, Japan in March 2015. The scope covers risk of small-scale and large-scale, frequent and infrequent, sudden and slow-onset disasters where the role of science and technology in providing evidence and knowledge on risk features in the context of climate change is emphasised.

The National Disaster Management Agency (NADMA) is the Focal Point for the Sendai Framework in Malaysia. With support from the Office of the Science Advisor to the Prime Minister and Universiti Kebangsaan Malaysia's Southeast Asia Disaster Prevention Research Initiative (SEADPRI-UKM), NADMA is currently formulating the National Science, Technology and Innovation Plan for DRR to support implementation of the Sendai Framework in Malaysia. The initiative is supported by the Scientific Expert Panel on DRR, which has been established under the aegis of the National Science Council (NSC) with the Science Advisor and the Director General of NADMA as co-chairs. Upon approval by the National Science and Technology Council (NSTC) chaired by the Honourable Prime Minister, the National STI Plan will be used to guide research priority areas for DRR in Malaysia.

The purpose of the Conference is as follows: -

- Provide an insight on the state of DRR knowledge in Malaysia, including linkages to climate change and sustainable development;
- Offer an avenue to provide inputs on the proposed National STI Plan for DRR; and
- Serve as the national platform for exchange of good practices in DRR among researchers and practitioners.

PROGRAMME

DAY 1: 5 October 2017 (Thursday)	
8.30 am - 9.00 am	REGISTRATION & ARRIVAL OF VIPs
9.00 am - 10.00 am	OPENING SESSION REMARKS <i>YBhg. Datuk Dr. Abdul Razak Mohd Ali FASc</i> <i>Honorary Treasurer</i> <i>Academy of Sciences Malaysia</i> REMARKS <i>YBhg. Dato' Abd. Rashid Harun</i> <i>Director General, National Disaster Management Agency</i> <i>Prime Minister's Department of Malaysia (NADMA Malaysia)</i> KEYNOTE ADDRESS <i>YBhg. Prof. Emeritus Tan Sri Dr. Zakri Abdul Hamid FASc</i> <i>Science Advisor to the Honourable Prime Minister</i> <i>Prime Minister's Office</i>
10.00 am - 10.30 am	COFFEE BREAK
10.30 am - 12.45 pm	SESSION 1: TECHNICAL PRESENTATION <i>Moderator: Tuan Mohd Ariff Baharom (NADMA Malaysia)</i> Challenges in Development of Forecasting Extreme Weather to Climate Resilience in Malaysia <i>Prof. Dato' Dr. Azizan Abu Samah FASc, Universiti Malaya</i> Erosion Induced Landslide with Regards to Rainfall Erosivity and Soil Erodibility <i>Prof. Dr. Roslan Zainal Abidin, Infrastructure University Kuala Lumpur</i> A 3-hours River Water Level Flood Prediction Model using NNARX with Improves Modelling Strategy <i>Dr. Fazlina Ahmat Ruslan, Universiti Teknologi MARA</i> Health Hazards of Extreme Weather Events <i>Prof. Dr. Jamal Hisham Hashim, Pusat Perubatan UKM</i> Enhancing Community Resilience: Insuring Residential Building against Flood Risk <i>Dr. Arpah Abu Bakar, Universiti Utara Malaysia</i> Q&A Session

12.45 pm - 2.00 pm	LUNCH
2.00 pm - 3.00 pm	SESSION 2: TECHNICAL PRESENTATION Moderator: Ir. Bibi Zarina Che Omar (NADMA Malaysia) Hydrological Impact of Landuse on Major Flood Prof. Dr. Zulkifli Yusop FASc, Universiti Teknologi Malaysia Landslide Risk Management: Towards a Better Disaster Risk Reduction (DRR) Programme Dr. Rodeano Rosli, Universiti Malaysia Sabah Flood Insurance Rate Map and CRaSFIRM System to Enhance Community Resilience Prof. Madya Dr. Rohayu Che Omar, UNITEN Q&A Session
3.15 pm - 3.45pm	SESSION 3: POSTER PRESENTATION Moderator: Dr. Lim Choun Sian (SEADPRI-UKM)
3.45 pm - 5.00 pm	SESSION 4: DIALOGUE ON DRAFT NATIONAL PLAN ON SCIENCE, TECHNOLOGY AND INNOVATION FOR DISASTER RISK REDUCTION Presentation by: Ir. Bibi Zarina Che Omar NADMA Malaysia
5.00 pm - 5.30 pm	REFRESHMENT AND END OF SESSION

DAY 2: 6 October 2017 (Friday)	
8.30 am - 9.00 am	REGISTRATION
9.00 am - 10.00 am	SESSION 5: TECHNICAL PRESENTATION Moderator: Ir. Dr. Salmah Zakaria FASc, Akademi Sains Malaysia Geodisaster Risk Reduction of Natural- and Human-Induced Landslides in Malaysia – How Prepared Are We? Prof. Madya Dr. Tajul Anuar Jamaluddin, Universiti Kebangsaan Malaysia Disaster Risk Management System of Landslide and Flood Prof. Dr. Habibah Hj. Lateh, Universiti Sains Malaysia Making Hospitals More Resilient by Strengthening Disaster Preparedness in Hospital's Built-Environment for Effective Response in Kelantan Hj. Norazam Ab. Samah, MERCY Malaysia Q&A Session
10.00 am - 10.30 am	COFFEE BREAK
10.30 am - 12.30 pm	SESSION 6: POSTER PRESENTATION Moderator: Dr. Nurfashareena Muhamad (SEADPRI-UKM)
12.30 pm-3.00 pm	LUNCH & FRIDAY PRAYER
3.00 pm - 5.00 pm	SESSION 7: DIALOGUE ON SIXTH ASSESSMENT REPORT (AR6) OF THE INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE (IPCC) Presentation by: Prof. Dr. Joy Jacqueline Pereira FASc Vice Chair of IPCC Working Group 2 on Impacts, Adaptation and Vulnerability
5.00 pm - 5.30 pm	CLOSING AND REFRESHMENT

POSTER PRESENTATIONS

Assessment on Effectiveness of Emergency Response Time During Landslide Event in Malaysia

Mohamad Fazli Bin Sardi
Universiti Teknologi Malaysia

Developing a Household Flood Vulnerability Index

Mohamad Syafiqi Hashim, Sallahuddin Hassan and Arpah Abu Bakar
Universiti Utara Malaysia

Direct Impact of Flash Floods in Kuala Lumpur City: Empirical Evidence Based Analysis

Tariqur Rahman Bhuiyan, Mohammad Imam Hasan Reza, Er Ah Choy and Joy Jacqueline Pereira
Universiti Kebangsaan Malaysia

Reconstruction of Monsoon Event through Isotopic Fingerprinting of O-18 and Deuterium in Precipitation: A Case Study of Kelantan 2014 Flood Disaster

M. I. Syakir
School of Industrial Technology, Universiti Sains Malaysia, Centre for Global Sustainability Studies (CGSS), USM

Managing Geohazards and Pipeline Rupture along Pipeline Route over Mountainous Regions

Abd Rasid Jaapar, Afiq Farhan and Zakaria Mohamad
Geomapping Technology Sdn. Bhd.

Linkages Between Sendai Framework and SDGs: A Preliminary Review

Mohd Khairul Zain, Joy Jacqueline Pereira and Sarah Aziz Abdul Ghani Aziz
Universiti Kebangsaan Malaysia

Rock Slope Protection System for Geodisaster Prone Area: Two Case Studies from China

Abd Rasid Jaapar, Zakaria Mohamad, Goh Thian Lai and Li Yufang
OST Slope Protection Engineering (M) Sdn. Bhd.

Building Human Resilience: The Role of Community Based Training and Awareness Program (CBTAP) for Dam Related Flood Risk Management

Nora Yahya, Sivadas Thiruchelvam, Azrul Ghazali, Rahsidi Sabri Muda, Abdul Aziz Mat Isa, Ng Yu Jin, Fatin Faiqah Norkhairi, Hazlinda Hakimie, Ahmad Kamal Kadir, Khairul Salleh Mohamed Sahari, Hasril Hasini, Kamal Nasharuddin Mustapha, Zakaria Che Muda and Ahmad Fadhli Mamat
Institute of Energy Infrastructure, Universiti Tenaga Nasional

Development of Community Based Early Warning System (CBEWS) for Enhancing Community Preparedness for Dam Related Disasters in Malaysia

Azrul Ghazali, Sivadas Thiruchelvam, Rahsidi Sabri Muda, Kamal Nasharuddin Mustapha, Ahmad Kamal Kadir, Fatin Faiqah Norkhairi, Nora Yahya, Hazlinda Hakimie, Abdul Aziz Mat Isa, Ahmad Fadhli Mamat, Hasril Hasini, Khairul Salleh Mohamed Sahari, Zakaria Che Muda and Ng Yu Jin
Institute of Energy Infrastructure, Universiti Tenaga Nasional

MERCY Malaysia's Building Resilient Communities (BRC) as a Holistic Disaster Risk Reduction Approach to Reduce ASEAN's Humanitarian Burden

Hafiz Amirrol
MERCY Malaysia

A Data Integration Model for Multi-Agency Asset in Disaster Logistic Management

Noor Haryantie Noor Sidin, Hazreen Haizi Harith and Khalina Abdan
Universiti Putra Malaysia

Towards an Integrated Approach of Disaster Management in Reducing Vulnerability of Communities Living in the Vicinity of Hydroelectric Dams

Sivadas Thiruchelvam, Kamal Nasharuddin Mustapha, Rahsidi Sabri Muda, Azrul Ghazali, Ahmad Kamal Kadir, Fatin Faiqah Norkhairi, Nora Yahya, Hazlinda Hakimie, Abdul Aziz Mat Isa, Ahmad Fadhli Mamat, Hasril Hasini, Khairul Salleh Mohamed Sahari, Zakaria Che Muda and Ng Yu Jin
Institute of Energy Infrastructure, Universiti Tenaga Nasional

Assessment of Existing Evacuation Centers Using Flood Risk Mapping in Melaka Tengah

N.S. Noor Haryantie, Z. Munirah, H. Nur Hasinah and R. Reza Adnin
Universiti Putra Malaysia

Flood Susceptibility Maps to Support Urban Landuse Decision-Making in Kajang, Malaysia

Nurfashareena Muhamad, Choun-Sian Lim, Mohammad Imam Hasan Reza and Joy Jacqueline Pereira
Universiti Kebangsaan Malaysia

Development of "ROAR" Index for Landslide Susceptibility in Malaysia

Noorbaya Binti Mohd Salleh, Roslan Zainal Abidin, Norhaiza Nordin and Mohd Sofiyan Sulaiman
Infrastructure University Kuala Lumpur

Local Adaptive Capacity among Community Living in Disaster-prone Area: A case study in Kundasang, Sabah

Ak. Mohd. Rafiq Ak. Matusin, Sharina Abdul Halim and Chamhuri Siwar
Universiti Kebangsaan Malaysia