

MHEW 2020

DRR Symposium



International Symposium on Multi-Hazard Early Warning and Disaster Risk Reduction

To promote the availability and application of research, science and technology to support implementation of Sendai Framework for Disaster Risk Reduction 2015-2030

14th - 16th December 2020
Virtual Conference - originally Colombo, SRI LANKA



In Collaboration with:



International Symposium on Multi Hazard Early Warning and Disaster Risk Reduction

14th to 16th December 2020 (Virtual event) - Time Zone India Standard Time (IST) UTC +5:30

Monday 14 th December 2020				
13:30 - 14:05	Arrival of the Guests National Anthem Lighting of the Traditional Oil Lamp			
	Welcome and introduction <i>Session co-chairs: Prof. Dilanthi Amaratunga, Global Disaster Resilience Centre, University of Huddersfield, UK & Mr. Sisira Madurapperuma, Asian Disaster Preparedness Centre, Thailand</i>			
	Welcome speech Major General (Retd) Sudantha Ranasinghe, Director General, Disaster Management Centre, Sri Lanka			
	Opening address Major General (Retd) G.D.H. Kamal Gunaratne, State Secretary of Ministry of National Security, Home Affairs and Disaster Management, Sri Lanka			
	Special message of the portfolio Minister Hon. Chamal Rajapaksha, State Minister of National Security, Home Affairs and Disaster Management			
	Special message 2 Special message 2, Ms. Mami Mizutori, Assistant Secretary-General and Special Representative of the Secretary-General for Disaster Risk Reduction and the Head of the United Nations Office for Disaster Risk Reduction (UNDRR, formerly UNISDR), and Mr. Abhilash Panda, Head of Infrastructure Resilience & Deputy for Intergovernmental and Partnerships, United Nations Office for Disaster Risk Reduction (UNDRR, formerly UNISDR)			
	Special message 3 from partners Mr. Hans Guttman, Executive Director, Asian Disaster Preparedness Centre (ADPC)			
	Symposium overview and details Prof. Dilanthi Amaratunga, Global Disaster Resilience Centre, University of Huddersfield, UK &			
14:05 - 14:15	Video on Evolution of Disaster Risk Management in Sri Lanka			
14:15- 14:45	Keynote 1 "Indian Tsunami Early Warning System" Dr Srinivasa Kumar Tummala Director, Indian National Centre for Ocean Information Services, Ministry of Earth Sciences, Government of India <i>Session chair: Prof. Richard Haigh, Global Disaster Resilience Centre, University of Huddersfield, UK</i>			
14:45 - 15:00	Screen Break			
15:00 - 16:30	Technical Session 1A: Climate Change & Early Warning	Technical Session 1B: Disaster Preparedness	Technical Session 1C: Sendai Framework for Disaster Risk Reduction 2015-2030 /Sustainable Development Goals	Technical Session 1D: Disaster Risk Reduction
16:30 - 16:45	Screen Break			
16:45- 18:00	Plenary 1 "Science, Policy and Practice Nexus for Risk Analytics, Early Warning Systems and Emergency Operations Centres (EOCs): Perspectives from the Asian Countries" <i>Session co-chairs: Major General (Retd) Sudantha Ranasinghe, Director General, Disaster Management Centre, Sri Lanka & Prof. Richard Haigh, Global Disaster Resilience Centre, University of Huddersfield, UK</i> Mr. Hans Guttman, Executive Director, Asian Disaster Preparedness Center (ADPC), Bangkok,Thailand; Mr. Muhammad Idrees, Member, National Disaster Management Authority (NDMA) Pakistan; Ms. Veronica Gabaldon, Executive Director, Philippine Disaster Resilience Foundation (PDRF), Philippines; Mr. Sushil Bhandari, Section Officer, NEOC, Ministry of Home Affairs (MoHA), Nepal; Ms. Thiri Maung, Deputy Director, Emergency Operation Center, Department of Disaster Management (DDM) Ministry of Social Welfare, Relief and Resettlement, Myanmar			

18:00 - 18:15	Screen Break			
18:15 - 19:45	Technical Session 2A: Disaster Risk Reduction	Technical Session 2B: Risk Transfer/Insurance	Technical Session 2C: Disaster Preparedness	Technical Session 2D: Innovation for Better Early Warning
Tuesday 15th December 2020				
13:30 - 14:00	<p style="text-align: center;">Keynote 2 "Green Infrastructure and Nature Based Solutions towards Disaster Risk Reduction" Dr Ananada Mallawathanthri Country Representative, International Union for Conservation of Nature (IUCN) in Sri Lanka <i>Session chair (keynote 2 and 3): Dr Senaka Basnayake, Asian Disaster Preparedness Centre, Thailand.</i></p>			
14:00 - 14:30	<p style="text-align: center;">Keynote 3 "People-Centered Early Warning System in the Face of Near Field Tsunami-A Lesson Learned from Indonesia" Dr Harkunti Rahayu The International Oceanographic Commission of UNESCO (IOC-UNESCO) Intergovernmental Coordination Group for the Indian Ocean Tsunami Warning and Mitigation System (ICG/IOTWMS) ICG/IOTWMS WG 1 on Tsunami Risk Community Awareness and Preparedness)</p>			
14:30 - 14:45	Screen Break			
14:45 - 16:15	Technical Session 3A: Disaster Risk Reduction	Technical Session 3B: Disaster Preparedness	Technical Session 3C: Communication for Better Early Warning	Technical Session 3D: Climate Change & Early Warning & Innovation for Better Early Warning
16:15 - 16:30	Screen Break			
16:30 - 18:00	<p style="text-align: center;">Plenary 2 "Integrating Epidemic and Pandemic Preparedness into Disaster Risk Reduction" <i>Session chair: Dr Nishara Fernando, University of Colombo, Sri Lanka</i> Prof. Dilanthi Amaratunga, Global Disaster Resilience Centre, University of Huddersfield, UK; Dr. Hemantha Herath, Deputy Director General of Public Health Services, Sri Lanka; Major General Sudantha Ranasinghe, DG, Disaster Management Centre, Sri Lanka; Dr Chandana Siriwardana, Senior Lecturer, University of Moratuwa, Sri Lanka; Mr. Sunil Jayaweera, Director Preparedness Planning, Disaster Management Centre, Sri Lanka; Project Researchers- Mr. Ravindu Jayasekara & Ms. Naduni Jayasinghe</p>		<p style="text-align: center;">Plenary 3 "Nature Based Solutions (NBS) for a Resilient Future" <i>Session chair: Dr Asiri Karuwanwardena, DG, NBRO, Sri Lanka</i> Dr. Ananda Mallawatantri, Country Representative, IUCN, Sri Lanka; Ms. Priyanka Dissanayake, Disaster Risk Management Specialist, WB Office, Sri Lanka; Mr. Susith Arambepola, Team Leader, NBs for Landslide Risk Management project, ADPC; Dr. Udeni Nawagamuwa, Senior Lecturer, University of Moratuwa, Sri Lanka and Consultant ADPC; Dr. Anurudda Karunarathna, Senior Lecturer, University of Peradeniya and Consultant ADPC, Sri Lanka; Prof. Champa Nawarathna, Team Leader, Building Resilience in Tropical Agro-Ecosystems Project(BRITAE), University of Ruhuna, Sri Lanka</p>	
18:00 - 18:15	Screen Break			
18:15 - 19:45	Technical Session 4A: Disaster Risk Reduction	Technical Session 4B: Disaster Preparedness	Technical Session 4C: Communication for Better Early Warning	Technical Session 4D: Disaster Preparedness & Health
Wednesday 16th December 2020				
13:30 - 14:00	<p style="text-align: center;">Keynote 4 "Disaster Risk Reduction through Multi-Hazard Resilient Infrastructure" Professor Priyan Dias Senior Professor, Department of Civil Engineering, Faculty of Engineering, University of Moratuwa, Sri Lanka <i>Session chair: Dr Chandana Siriwardena, University of Moratuwa, Sri Lanka</i></p>			
14:00 - 15:30	Technical Session 5A: Disaster Preparedness	Technical Session 5B: Disaster Risk Reduction	Technical Session 5C: Disaster Risk Reduction	Technical Session 5D: Sendai Framework for Disaster Risk Reduction 2015-2030 /Sustainable Development Goals

15:30 - 15:45	Screen Break
15:45 - 17:15	<p style="text-align: center;">Plenary 4 "Media and Disaster Risk Communication" <i>Session moderator: Dr Chandana Siriwardana, Senior Lecturer, University of Moratuwa, Sri Lanka</i></p> <p>Prof. Rohan Samarajiva, Board Chair & Founder LIRNEasia, Sri Lanka; Major General Sudantha Ranasinghe, DG, Disaster Management Centre, Sri Lanka; Mr. Chevaan Daniel, Group Director, Capital Maharaja Organization, Sri Lanka; Mr. Nalaka Kaluwewa, Director General, Department of Government Information, Sri Lanka</p>
17:15-17:30	Screen Break
17:30 - 18:30	<p style="text-align: center;">Final Plenary and Adoption of Colombo MHEW and DRR Declaration /Closing Ceremony <i>Session moderators: Prof. Dilanthi Amaratunga, Global Disaster Resilience Centre, University of Huddersfield, UK, Mr. Sisira Madurapperuma, Asian Disaster Preparedness Centre, Thailand</i></p> <p>Prof. Kapila Perera, Secretary, Ministry of Education; Prof. Ranjith Dissanayake, Secretary, State Ministry of Rural Roads and other Infrastructures; Major General (Retd.) Sudantha Ranasinghe, Director General, Disaster Management Centre, Sri Lanka; Major General (Retd) G.D.H. Kamal Gunaratne, State Secretary of Ministry of National Security, Home Affairs and Disaster Management, Sri Lanka; Prof Ranjith Senaratne, Chairman, National Science Foundation of Sri Lanka; Dr. Hemantha Herath, Deputy Director General (Ministry of Health)</p> <p style="text-align: center;">Vote of Thanks</p> <p style="text-align: center;">Major General (Retd.) Sudantha Ranasinghe, Director General, Disaster Management Centre, Sri Lanka</p>

International Symposium on Multi Hazard Early Warning and Disaster Risk Reduction

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Technical Sessions

Technical Session 1

14th December 2020, from 15:00 – 16:30 IST

Technical Session 1A: Climate Change & Early Warning Session co-chairs: Dr Chandana Siriwardena & Dr Shiromani Jayawardena	Technical Session 1B: Disaster Preparedness Session co-chairs: Dr Chaminda Bandara & Dr Nishan Sakalasooriya	Technical Session 1C: Sendai Framework for Disaster Risk Reduction 2015-2030 /Sustainable Development Goals Session co-chairs: Prof Ruben Paul Borg & Ms. Anoja Seneviratne	Technical Session 1D: Disaster Risk Reduction Session co-chairs: Dr Gayan Wedawatte & Mr. Janath Hettiarachchi
<p>The Impact of PDO on South West Monsoon Rainfall Over Sri Lanka and Monsoon- ENSO Relation [ID: 027] <i>Sumathipala W. L., Hettiarachchi R. D., Navaratna W. C. W., Somarathne S., Premalal K. H. M. S.</i></p> <p>Study on Landslide Early Warning by Using Rainfall Indices in Sri Lanka [ID: 110] <i>Wada T., Gamage H.G.C.P., Senadeera W., Aroos M.S.M.b, Bandara D.M.L., Rajapaksha W.D.G.D.T.</i></p> <p>Understanding Alteration to Surface Cover in Developing Urban Heat Island: Enhancing City Climate Change Adaptation Capacity, Quezon City, Philippines [ID: 037] <i>Raza T, Raza T.K., Liwag C., Andres A.V., Castro J.T., Espinosa R.I.</i></p> <p>Synoptic Analysis for the Disastrous Heavy Rainfall in May 2016 Caused due to a Low-Pressure System [ID: 055] <i>Warnasooriya A., Kumara K.W.S.J., Premachandra C., Premalal S.</i></p> <p>Local Responsiveness to Changes in Climate: A Case of Underutilized Marine and Aquatic Resources [ID: 057] <i>De Silva A., Ekanayake J., Basnayake R., Rajapaksha H., Kalpana S.</i></p> <p>Saving Lives and Livelihood of the Mountain Communities Through Glacial Lake Outburst Floods Risk Reduction and Early Warning System Initiative: A Case Study of Imja Glacial Lake in the Everest Region Nepal Himalayas [ID: 025] <i>Deepak K.C.</i></p>	<p>Study on Factors Influence Motivation to Engage in Disaster Preparedness: Case of Walapane Divisional Secretariat Division, Nuwara Eliya District, Sri Lanka [ID: 002] <i>Prasanna L.J., Fernando P.R.N.</i></p> <p>Development of a Legume Based Disaster Resilient Emergency Food Product [ID: 011] <i>Rathnayake H.A., Navaratne S.B., Navaratne C.M., Madushika N.V.G.S.</i></p> <p>Analyze and Comparison the Atmospheric Instability Using K-Index, Lifted Index and Convective Availability Potential Energy (CAPE) in Development of Thunderstorms in Sri Lanka [ID: 028] <i>Fernando M., Millangoda M., Premalal S.,</i></p> <p>Developing a Framework for Disaster Risk Management Integrated Transport Planning Process - Exploring the Key Components and Unit of Analysis [ID: 152] <i>Senevirathne M., Haigh R., Amaratunga D.</i></p> <p>Rapid Response Mechanism for Major Disasters – Lessons Learned and Future Prospects [ID: 058] <i>Alahacoon N., Amarnath G., Ghosh S.</i></p> <p>Collective Action and Co-Management Initiatives in Bush Fire Management – A Case of Belihuloya Mountain Range [ID: 060] <i>Basnayake B.M.R.L., Rajapaksha R.H.N., Sandamith M., Wickramarathna I., De Silva D.A.M., Gunatiliake S.K.</i></p>	<p>A Site-Specific Study on Peacock and Human Conflict- A Case Study from Jayanthipura Grama Niladhari Division, Polonnaruwa- Sri Lanka [ID: 059] <i>Herath H.M.N.T., Gunathilake K.L.W.I., Chandrasekara C.M.K.N.K.</i></p> <p>Sustainable Development Goals and Disaster Risk Reduction, Targets and Challenges for India [ID: 073] <i>Mishra H.S.</i></p> <p>Introducing New Initiatives for Resettlement in Sri Lanka- An Analysis of Resettlement in Aranayake Kegalle [ID: 082] <i>Mahendra J.</i></p> <p>Built Environment Disciplines' Role in Disaster Risk Reduction [ID: 133] <i>Malalgoda C., Amaratunga D., Haigh R.</i></p> <p>Assessing the Effectiveness of the Relief Allocation for Drought Affected Area: A Case Study of Anuradhapura District [ID: 139] <i>Senevirathne A., Ekanayaka R.</i></p> <p>Strategy Followed for the Establishment of Local Disaster Risk Reduction (DRR) Plans, in Sri Lanka [ID: 107] <i>Nagai T., Samarakkody R.P.</i></p>	<p>Flood 'Survivors' or Flood 'Dependents'? Sociological Reading of Flood 'Victims' in Urban Sri Lanka [ID: 009] <i>Samaraweera H.U.S.</i></p> <p>Impact of Tsunami on Heterogeneous Economic Sectors: The Case of Sri Lanka [ID: 003] <i>Weerasekara S.H., Wilson C., Hoang V., Lee B.</i></p> <p>Applicability of Drywall Partitioning in Disaster Relocation Projects: Time Based Performance Analysis [ID: 013] <i>Dilukshi H.N., Hadiwattage C., Shanika V.G.</i></p> <p>High Performance Glass-Bolted Joints for Disaster Resilient Glass Structures [ID: 020] <i>Achintha M.</i></p> <p>Case Study and Synoptic Analysis on the Extreme Rainfall in December 2018: Northern Sri Lanka [ID: 029] <i>Kohilawatta A., Premalal S., Inparajan S.,</i></p> <p>Increase of Pluvial Flood in Borelesgamuwa Area with the Climate Change and Land Use Changes [ID: 030] <i>Rajapakse P., Premalal S.</i></p>

Technical Session 2

14th December 2020, from 18:15 – 19:45 IST

Technical Session 2A: Disaster Risk Reduction Session co-chairs: Dr Chathuranganee Jayakody & Dr Buddika Hapuarachchi	Technical Session 2B: Risk Transfer/Insurance Session co-chairs: Dr Chamindi Malalgoda & Mr. Suranga Kahadhawa	Technical Session 2C: Disaster Preparedness Session co-chairs: Prof Champa Navarathne & Ms. Watsala Jayamanna	Technical Session 2D: Innovation for Better Early Warning Session co-chairs: Ms. Kinkini Hemachandra & Mr. Sarath Premalal
<p>Analysis and Comparison of the Earthquakes over the Indonesian and Makran Zones: Towards Possible Tsunami Generation in Future [ID: 031] <i>Jayaweera S., Premalal S.</i></p> <p>Post Disaster Reconstruction for Resilient Community: Lesson Learnt Through Post Tsunami Reconstruction and Post- Conflict Housing Project, Sri Lanka [ID: 032] <i>Gunasekara M., Rupasinghe P., Chanaka D., Samarakoon U., Perera A.</i></p> <p>Sri Lanka Navy's Approach towards Effective and Efficient Emergency Response Mechanism [ID: 068] <i>Dayananda D.</i></p> <p>Inter-Relation Between Landscape Alteration and Micro-Climatic Changes in the National Capital Territory of Delhi, India [ID: 041] <i>Yadav S.</i></p> <p>Developing Tsunami Risk Reduction Strategies for Gampaha District Derived from "Wave 17 Tsunami Simulation Exercise" [ID: 047] <i>Vithanage N., Nishantha A.,</i></p> <p>Youth Volunteers as Change Agents in Disaster Risk Reduction in Sri Lanka [ID: 051] <i>Vithanage N., Pathirana S., Wijesekara N., Chamara N.</i></p>	<p>Plant Selection Criteria for Nature-Based Landslide Risk Management [ID: 001] <i>Ganepola C., Karunaratna A., Dayarathna N., Kankanamge L., Perera D., Nawagamuwa U., Basnayaka S., Arambepola S.</i></p> <p>A Conceptual Framework for Community Led Ecosystem-Based Disaster Risk Reduction [ID: 038] <i>Zarouk Z., Mallawatantri A., Piyadasa R., Saja A., Attanayake K.</i></p> <p>Contribution of Nature Protection in Reducing Disaster Risks in the Jaffna District, Sri Lanka with Special Reference to Natural Sand Dunes in Vadamarchchy East, Sri Lanka [ID: 118] <i>Ravi S., Rajkumar P., Wijesundra C.S.</i></p> <p>What is the Disaster Resilient Properties? [ID: 153] <i>Nissanka S., Amaratunga D., Haigh R.</i></p> <p>An Evaluation of Existing Natural Disaster Risk Insurances in Sri Lanka [ID: 160] <i>Senavirathna C.</i></p> <p>Incorporating Accountability into Disaster Risk Governance [ID: 135] <i>Senanayake M., Amaratunga D., Haigh R.</i></p>	<p>National Emergency Operation Plan Sri Lanka: Challenges & Recommendations [ID: 075] <i>Liyanaarachchige C., Ariyaratna A.</i></p> <p>Development of a Decision Support Weather Advisory System for Dry Zone Farmers in Sri Lanka [ID: 084] <i>Dissanayake U., Premalal S., Wickramasinghe D., Gunaratne P., Jayasinghe A., Rienzie R., Kuruppuarachchi N.a, Hettige V.c</i></p> <p>Techno Physiological Approach to Reduce Drought Stress of Young Rubber Plantations in Drought Prone Areas - A Case Study in Moneragala, Intermediate Zone of Sri Lanka [ID: 085] <i>Nakandala S.A., Weerasinghe K.D.N., Seneviratne P., Iqbal S.M.M.</i></p> <p>Lessons Learnt from Implementing a Training Course on Ecosystems Resilience in Changing Climate for Mainstreaming Weather and Climate Information for Sectoral Development in Four Countries of South Asia and South East Asia [ID: 091] <i>Jayasinghe S., Basnayake S. Gupta N., Weerasinghe K.D.N., Weerasinghe B.</i></p> <p>Challenge to Evacuate People in Case of Nyiragongo Volcano Eruption [ID: 098] <i>Munihire M.M., Karume K.</i></p> <p>Spatial and Temporal Variability of Lightning Activity in Sri Lanka [ID: 049] <i>Jayawardena I.M.S.P., Makela A</i></p>	<p>Analysis of the Effectiveness of Early Warning System to Face Future Tsunamis in Sri Lanka by Comparing with Japanese Early Warning System [ID: 004] <i>Jayarathne J.M.A.R., Kodama M., Yumi S.</i></p> <p>Public Addressing System in Religious Places as Early Warning Dissemination Nodes - A Case Study in Sri Lanka [ID: 007] <i>Saja A.M., Lafir M.S., Sutharshanan M.</i></p> <p>Measuring Household Carbon Footprint: Population-Specific Adaptation and Validation of a Tool for South Asia [ID: 014] <i>Wckramarathne J.</i></p> <p>Is EMI of VLF and ULF Wave on Base Perceptible on Spectral Band for the Detection Level and Significant for Pre-Seismic Events? [ID: 071] <i>Verma U., Mishra A., Nsinha M., Nandan R.</i></p> <p>Evaluation of the Impacts of the Salinity Barrage in Kelani Ganga Using 1D-2D Hydraulic Model in Terms of Flooding [ID: 079] <i>Siriwardena K.K.G.I.L., Widanapathirana S. , Pannala P.A.A.P.K.</i></p> <p>An Approach for Impact-Based Heavy Rainfall Warning Based on the ECMWF Extreme Forecast Index and Level of Vulnerability to the Hazard [ID: 089] <i>Mendis M.M.P.</i></p>

Technical Session 3

15th December 2020, from 14:45 – 16:15 IST

Technical Session 3A: Disaster Risk Reduction Session co-chairs: Dr Roshani Palliyaguru & Dr Saranga Vithanage	Technical Session 3B: Disaster Preparedness Session co-chairs: Dr Kanchana Ginige & Mr. Chathura Liyanaarachchige	Technical Session 3C: Communication for Better Early Warning Session co-chairs: Dr Ezri Hayad & Mr. Predeep Koddipilli	Technical Session 3D: Climate Change & Early Warning & Innovation for Better Early Warning Session co-chairs: Prof Charlotte Kendra Gonzales & Ms Urmila Selvanayagam
<p>Analysis of Shoreline Dynamics in Spatial and Temporal Scales at Kalpitiya Coastal Window, Sri Lanka; An Approach for Informed Decision Making for Sustainable Coastal Administration [ID: 033] <i>Wickramaarachchi B., Tajima Y., Samarakoon L., Athapattu B.C.L., Wijerathne, T.M.N.</i></p> <p>Low Cost Technology in DRR: Using Open Data for Decision Making [ID: 053] <i>Khatiwada P., Bajracharya R.</i></p> <p>Natural vs Manmade Disasters: Impact of Disasters on Small Holder Agriculture Systems in Gem Mining Areas of Sri Lanka [ID: 056] <i>Elapata M., De Silva A.</i></p> <p>Role of the Built Environment in rebuilding Displaced and Host Communities [ID: 092] <i>Jayakody R.R.J.C., Malalgoda C., Amaratunga D., Haigh R</i></p> <p>Assessment of Knowledge and Practices of Grama Niladari Divisional Level Stakeholders on Watershed Management at Kalutara and Ratnapura Districts of Sri Lanka [ID: 039] <i>Zarouk Z., Piyadasa R., Punyawardana B.V.R., Hearth S</i></p> <p>Assessment of Existing Disaster Resources Information and Design Interactive Resources Network for Effective Disaster Management [ID: 078] <i>Kukulavithana S.</i></p>	<p>Making EWS Inclusive: The Philippine Experience on PWDS in Disasters – A Literature Review (Theme: Disaster Preparedness) [ID: 168] <i>Edwin S.</i></p> <p>Disasters, Climate Change and Development Nexus on Food Security Sector in Asia [ID: 169] <i>Kumara M.A.S.J., Amaratunga D., Haigh R.,</i></p> <p>Application of Participatory and Appreciative Approach on Develop Comprehensive Disaster Risk Assessment Tool at Local Level: Special Reference to Jaffna District of Sri Lanka [ID: 156] <i>Ravi S.</i></p> <p>Network Centrality Assessment: Assessing the Transport Networks Resilience for Urban Flooding [ID: 164] <i>Kalpana H.N., Madusanka N.B.S., Jayasinghe A.B.</i></p> <p>Assessment of the Minimum Time Requirement to Evacuate People from a Tsunami in the Galle City [ID: 174] <i>Arachchi N.P.M., Sandika A.L., Prasanna R.</i></p> <p>Mechanism for Command and Control in Effective Incident Response Operations [ID: 176] <i>Tillekaratne H., Ariyaratne A.</i></p>	<p>Decision Support System for Strengthening Multi-Hazard Early Warning and Disaster Risk Governance – A Case Study of Tropical Cyclone GAJA 2018, Tamil Nadu, India [ID: 097] <i>Pal I., Dash I., Shanmugasundaram J.</i></p> <p>The Folk Religious Practices as an Indigenous Approach of Negotiating Disaster Risks in Sri Lanka [ID: 023] <i>Piyarathne A.</i></p> <p>An Analysis of the Adequacy of Tsunami Warning Towers as a Last Mile Warning for the Populations Exposed to Tsunamis in Sri Lanka [ID: 150] <i>Samansiri S., Senevirathne A., Fernando T.</i></p> <p>A Systematic Review of Community Engagement (CE) in Flood and Landslide Early Warning Systems (EWSS) in Kegalle District [ID: 045] <i>Vithanage N., Bandara A.</i></p> <p>Gaps in Decision Making, Communication and Coordination within the Interface of Tsunami Early Warning System in Sri Lanka [ID: 081] <i>Sakalasuriya M., Haigh R., Amaratunga D.</i></p> <p>Stakeholder Level Trust on Multi-Hazard Early Warning (MHEW) Mechanism; Sri Lankan Context [ID: 116] <i>Shehara P.L.A.I., Siriwardana C.S.A., Amaratunga D., Haigh R.</i></p>	<p>The Variability & Trends of Precipitation & Air Temperature in Sri Lanka [ID: 080] <i>Priyantha H.D.</i></p> <p>Real-Time Flood Forecasting System for Mi Oya Basin [ID: 094] <i>Priyankara W.M.S., Dias D.D., Meegastenna T.J.</i></p> <p>Rainfall Triggered Landslide Early Warning System Based on Soil Water Index Gamage [ID: 105] <i>H.G.C.P., Wada T., Senadeera W., Aroos M.S.M., Bandara D.M.L.</i></p> <p>Development of Flood Warning Mobile Application [ID: 109] <i>Wickramasooriya M.D.J.P., Priyankara W.M.S., Iqbal S., Ariyaratne K.H.A.A., Gayathri M.P.M.</i></p> <p>Identify Extreme Rainfall Events for the Period 1991-2017 in Sri Lanka Using Percentile-Based Analysis and Its Projections for 2100 for the Emission Scenarios RCP 4.5 and 8.5 [ID: 131] <i>Hapuarachchi H.A.S.U., Premalal S.</i></p> <p>Assessing Flood Risk in Malwathu Oya River Basini Northern Sri Lanka for Establishing an Effective Early Warning System [ID: 148] <i>Mahakumarage N., Hettige V., Jayaweera S., Hapuarachchi B.</i></p>

Technical Session 4

15th December 2020, from 18:15 – 19:45 IST

Technical Session 4A: Disaster Risk Reduction Session co-chairs: Dr Crisanto M Lopez & Dr Gamini Jayathissa	Technical Session 4B: Disaster Preparedness Session co-chairs: Prof. Nandasiri Weerasinghe & Mr Firzan Hashim	Technical Session 4C: Communication for Better Early Warning Session co-chairs: Dr Nuwan Dias & Ms. Anusha Warnasooriya	Technical Session 4D: Disaster Preparedness & Health Session co-chairs: Prof Champika Liyanage & Dr Novil Wijesekera
<p>Identified Sociological Issues on Resettlement in Sri Lanka - The Case Study of Landslide in Badulla, Kegalle and Rathnapuara [ID: 090] <i>Mahendra J., Kumara U. a, Manjula S.H.</i></p> <p>Remote Sensing Innovations for Index-Based Flood Insurance in India [ID: 166] <i>Amarnath G., Alahacoon N., Ghosh S., Brahmanand P.S., Sikka A., McDonnell R.</i></p> <p>The Impact of Natural Disasters on the Promotion of Ecotourism in the Jaffna District, Sri Lanka with Special Reference to Sand Dunes in Vadamarachchy East [ID: 119] <i>Ravi S., Rajkumar P., Wijesundra C.S.</i></p> <p>Improving Information Infrastructure for Natural Disaster Risk Reduction and Management of Sri Lanka: GIS/Remote Sensing Based Social and Physical Vulnerability Assessment Towards Sustainable Disaster Risk Reduction, Planning and Management [ID: 121] <i>De Silva N.S.</i></p> <p>Identifying the Disaster Risk as an Important Step to Disaster Risk Reduction: Landslide Risk Assessment in Kandy [ID: 130] <i>Jayathilaka C.</i></p> <p>Development of Disaster (Flood, Landslide, Drought and Tsunami) Risk Index for Sri Lanka [ID: 144] <i>Seneviratne A., Ratnayake R.K., Idunil B.H.I., Wanasingha W.A.K.I., Dilshan M.W.R.R., Kurugama K.A.K.M., Lankathilaka R.A.D.B.M., Gunathilake J.A.S.P., Hapuarachchi S.P., Fernando G.S., Punchihewa S.P.G., Makevita M.A.K.P., Thulashika R.</i></p>	<p>Drowning Prevention & Water Safety Sri Lanka: Challenges & Recommendations [ID: 074] <i>Liyanaarachchige C., Jayaweera S., Nanayakkara S., Wijayarathne S., Jayawardena M.</i></p> <p>The Formation of a Capacity Development Framework to Improve Research and Innovation in Disaster Resilience in Higher Education Institutions in Asia [ID: 172] <i>Liyanage C., McDonald R., Amaratunga D., Hayat E., Haigh R</i></p> <p>Core Principles for Planning Public Open Spaces to Enhance Coastal Cities' Resilience to Tsunamis in Sri Lanka [ID: 154] <i>Jayakody R.R.J.C., Amaratunga D., Haigh R.</i></p> <p>Information Platform for Chemical Disaster Management and Impact Assessments [ID: 145] <i>Kaushalya K.L.G., Dissanayake C.L.W., Premasiri H.D.S.</i></p> <p>Inventory Survey of Slope Failures in Sri Lanka [ID: 103] <i>Yang P.</i></p> <p>Transboundary River Governance Practices for Flood Risk Reduction in Europe: A Review [ID: 137] <i>Clegg G., Haigh R., Amaratunga D.</i></p>	<p>Evaluation of the Level of Understanding among the University Students about the Spread of Disaster-Related Information in Social Media: Case Study Approach [ID: 127] <i>Kannangara K.K.C.L., Siriwardana C.S.A.</i></p> <p>A Conceptual Framework for Social Media Use During Disasters [ID: 128] <i>Jayathilaka H.A.D.G.S., Siriwardana C.S.A., Amaratunga D., Haigh R.</i></p> <p>A Review on the Present Status of Community Level DM Committees in Tsunami Early Warning System in Sri Lanka [ID: 140] <i>Weerasena N., Hettige S.T., Amaratunga D., Haigh R.</i></p> <p>Flood Risk Assessment and Community Based Early Warning System for Ratnapura DS Division [ID: 044] <i>Vithanage N., Manjula, M.</i></p> <p>Analysis the Capacity of Disaster Early Warning Reception of Kalutara District in 4 Most Vulnerable Divisional Areas in Sri Lanka [ID: 179] <i>Kodippili K.A.D.P.K.</i></p>	<p>Management of the Dead in Disasters: Knowledge, Attitudes and Self-Reported Practices Among a Group of Army Soldiers in Galle District, Sri Lanka [ID: 076] <i>Chaminda U.G.G., Warushahennadi, J.</i></p> <p>A Flood Preparedness Model for Resilience Around Fluvial Disasters [ID: 138] <i>Dziya I., Amaratunga D., Haigh R.</i></p> <p>Evaluation of Disaster Preparedness Level of Sri Lankan Hospitals in the Context of Multi Hazard Early Warning [ID: 124] <i>Jayasekara J.H.P.R.U., Siriwardana C.S.A.</i></p> <p>Knowledge, Reported Practices and Their Associated Factors on Disaster Preparedness Among Residents of MOH Area, Agalawatta [ID: 151] <i>Ambagahawita A., Nandasena S., Perera S.</i></p> <p>A Study on the Importance of Commercial Aircraft Disasters and Its Preparedness in Sri Lanka [ID: 129] <i>Fernando P.</i></p> <p>Stakeholder Engagement in Dengue Control – One Year after the Major Dengue Outbreak in Sri Lanka [ID: 132] <i>Dheerasinghe D.S.A.F., Cader M., Weerasinghe W.M.I.P., Kodithuwakku L., Abeysekera I., Pannila Hetti N., Samaraweera P., Tissera H.A.</i></p>

Technical Session 5

16th December 2020, from 14:00 – 15:30 IST

Technical Session 5A: Disaster Preparedness Session co-chairs: Dr Zin Mar Lwin & Ms. Sureka Perara.	Technical Session 5B: Disaster Risk Reduction Session co-chairs: Dr Nuwan Dias & Mr. Indu Abeyratne	Technical Session 5C: Disaster Risk Reduction Session co-chairs: Dr Chethika Abenayake & Ms. Gothami Chandraratne	Technical Session 5D: Sendai Framework for Disaster Risk Reduction 2015-2030 /Sustainable Development Goals Session co-chairs: Ms. Anuradha Senanayake & Ms. Anoja Seneviratne
<p>Assessment of Typical Sri Lankan School Buildings to Extreme Coastal Flooding [ID: 100] <i>Del Zoppo M., Wijesundara K., Baiguera M., Dias P., Rossetto T., Robinson D., Wijetunge J., Di Ludovico M., Little A., Prota A.</i></p> <p>Heavy Metal, Oil and Grease Pollution of Negombo Lagoon in Sri Lanka [ID: 101] <i>Chandrasekara C.M.K.N.K., Weerasinghe K.D.N., Pathirana S., Piyadasa R.U.K.</i></p> <p>Analysis of Flood Vulnerability in Kalutara District Using Geospatial Technology [ID: 122] <i>Wickramasooriya A.K., Walpita L.S.</i></p> <p>An Assessment on the Capacity Needs to Implement a MOOC System in the Developing Countries in Asia with Reference to the Energy Efficiency and Climate Change- Focused group survey in Sri Lanka and Bangladesh under BECK project [ID: 136] <i>Amaratunga D., Haigh R., Weerasinghe K.D.N., Navarathene C., Kaklauskas A., Senevirathne M., Priyankara C.</i></p> <p>Qualitative and Quantitative Assessment of Plastic Debris in the Coastal Eco System of Matara District, Sri Lanka [ID: 104] <i>Weerasinghe K.D.T.N., Weerasinghe K.D.N., Jayathissa W.D.S., Williams K.S., Liyanage C.L.</i></p> <p>Introducing Preparedness Parameters for Sustainable Settlement in Sri Lanka. Application of Pinheiro Principles to Sri Lankan Settlements [ID: 113] <i>Jagath M., Nishshanka H.</i></p>	<p>Resettled or Displaced? A Social Inquiry on Tsunami Resettlement Program in Dickwella Divisional Secretariat, Sri Lanka [ID: 155] <i>Kamalrathne T.</i></p> <p>Preparedness on Problem Focused Solution of Disaster Risk Reduction: Case Study of Tsunami Affected Community at Uduthurai and Aliyawail of Jaffna District, Sri Lanka [ID: 157] <i>Ravi S.</i></p> <p>A Systematic Literature Review on Indigenous Knowledge in Disaster Risk Reduction [ID: 159] <i>De Silva A., Haigh R., Amaratunga D.</i></p> <p>Flood-Resilient Solutions of Urban Area [ID: 161] <i>Piyumi M.M.M., Abenayake C.C., Wijayawardana N.</i></p> <p>Flood Risk of Porathivu Pattu in Batticaloa District: Sri Lanka [ID: 163] <i>Prakashnie, M.P., Nianthi, K.W.G.R., Wickramasooriya A.K.</i></p> <p>A Review on Incorporating Disaster Risk Reduction Mechanisms for Landslide Hazards in to the GREENSL Rating System for Built Environment in Sri Lanka [ID: 115] <i>Abeyasinghe A.A.S.E., Bandara C.S., Siriwardana C.S.A., Haigh R., Amaratunga D., Dissanayake P.B.R</i></p>	<p>Policy Recommendations for Establishing a Long-Term Landslide Risk Management Strategy in Sri Lanka [ID: 180] <i>Basnayake S., Arambepola N.M.S.I., Sugathapala K., Amaratunga D., Ganepola C., Kulathilaka S.A.S.</i></p> <p>Fire and Explosive Risk Reduction in Uncontrolled Dumpsites [ID: 146] <i>Chandrasena W.K.N., Premasiri H.D.S.</i></p> <p>Regional Drought Monitoring for Managing Water Security in South Asia [ID: 167] <i>Amarnath G., Alahacoon N., Ghosh S., Rao K.V., Sikka A.</i></p> <p>Why Mobilising Women’s Leadership is Critical to Effective Disaster Risk Reduction [ID: 171] <i>Amaratunga D., Hemachandra K.</i></p> <p>Early Warning Disaster Risk Reduction Compliance Index for Public Private Partnership (PPP) Port Projects [ID: 173] <i>Liyanage C., Villalba-Romero F.</i></p> <p>Capacity Building in Asia for Resilience Education for Strengthening MHEW for Coastal Resilience [ID: 126] <i>Hemachandra K., Haigh R., Amaratunga D.</i></p>	<p>Determination of the Feasibility of the Uses of Hyper KANAKO A Debris Flow System to Predict the Landslide Damage Zone of Sri Lanka, a Case Study to the Landslide at Meeriyabedda, Koslanda, Badulla, Sri Lanka [ID: 102] <i>Hemasinghe H., Suzuki K., Matsumoto N., Uchida T.</i></p> <p>Examining the Food Security in the Climate-Sensitive Mountain Region to Evolve an Alternate Policy Framework [ID: 112] <i>Yadav N.</i></p> <p>A Systematic Review of Community Engagement (CE) in Flood and Landslide Early Warning Systems (EWSS) in Kegalle District [ID: 045] <i>Vithanage N., Bandara A.</i></p> <p>Understanding the Role of Creating Disaster Risk Resilient Cities in Facilitating the Achievement of Sustainable Development [ID: 142] <i>Smart L.N., Amaratunga D., Haigh R.</i></p> <p>Translating the Guidance on Gender Inclusion in the Global Agendas into Action [ID: 149] <i>Ariyabandu M.M., Miranda R.</i></p>