

International Symposium on
Disaster Resilience and Sustainable Development

Date: 7 - 8 March, 2019

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Asian Institute of Technology, Thailand

PROGRAM

Venue: AIT Conference Center, Thailand

DAY 1: March 7, 2019 (Thursday)

TIME	SESSION DETAILS
08:00 - 09:00	REGISTRATION
09:00 - 10:30	<p style="text-align: center;">Opening session</p> <p>Symposium Overview: Dr. Indrajit Pal, AIT</p> <p>Welcome Address: Dr. Eden Y. Woon, President, AIT</p> <p>Keynote Address: Prof. Mario Tabucanon, UNU, Japan <i>[Education for Sustainable Development: A tool for creating disaster-resilient societies]</i></p> <p>Keynote Address: Dr. Sanjay Kumar Srivastava, UNESCAP, Bangkok <i>[Big Data Innovations for Disaster Resilience]</i></p> <p>Keynote Address: Prof. Gretchen Kalonji, Sichuan University, China <i>[Challenges for the Design of Undergraduate Programs in Disaster Sciences]</i></p> <p>Symposium Outcomes : Dr. Sangam Shrestha, AIT</p>
10:30 - 11:00	COFFEE BREAK AND GROUP PHOTOGRAPH
11:00 - 12:30 Panel Discussion (PD-01) (Venue: Robert B. Bank Auditorium, AITCC)	<p>Discussion Theme: "Education, Capacity Development and Disaster Resilience"</p> <p>Session Moderator: Prof. Rajib Shaw, Keio University, Japan</p> <p>Rapporteur: Nandanavanam Karthikeya, Gautam Dadhich</p> <ol style="list-style-type: none"> 1. Takashi Oda, Miyagi University of Education, Japan 2. Tabassam Raza, Philippines School of Business Administration, Philippines 3. Iftekhar Ahmed, University of Newcastle, Australia 4. Gretchen Kalonji, Sichuan University, China 5. Mukand Singh Babel, Asian Institute of Technology, Thailand 6. Tuhin Ghosh, Jadavpur University, India
12:30 - 14:00	LUNCH
14:00 - 15:40 Technical Session (TS-01) Parallel Session (Venue: Room No. B-202, AITCC)	<p>Session Theme: "Technical Session -1"</p> <p>Co-Chairs: Dr. Basanta Raj Adhikari, Dr. Raju Sarkar ,</p> <p>Rapporteurs: Salote Sarasau, Arlene Gonzales</p> <ol style="list-style-type: none"> 1. Madhu Sudan Gautam - Role of Education in Climate Change Adaptation Strategies: An evidence from Nepal 2. Subir Sen - Willingness to Pay for Insurance against Natural Disasters 3. Ashish Sharma - Economic Impacts of Drought and Subsequent Relief in Madhya Pradesh- A district level analysis 4. Subhash Chandra Panja - Railway Accidents Scenarios Analysis: Human Factor Based Review 5. Amrit Prasad Sharma - Correlating school dropout rate of children with climate induced disaster 6. Sabuj Kumar Mandal - BASIEC: A Coastal Climate Service Awareness Framework for Community Based Adaptation to rising sea-levels 7. Sylvan Odidi - Determinants of Flood Mitigation Choices and Decisions Patterns Among Households in Low Income Community: Case Study of Budalangi, Kenya 8. Basanta Raj Adhikari - Application of low-cost community based Landslide Early Warning Systems in the Nepal Himalaya

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	Q&A
<p>14:00 - 15:40 Technical Session (TS-02)</p> <p>Parallel Session</p> <p>(Venue: Room No. B-206, AITCC)</p>	<p>Session Theme: "Technical Session -2"</p> <p>Co-Chairs: Prof. Nitin Kumar Tripathi, Dr. Menjadi Yonariza</p> <p>Rapporteurs: Afshana Parven , Savaira Sigawale</p> <hr/> <ol style="list-style-type: none"> Hansa Jayarathne - Factors influencing women to be more vulnerable in post-disaster situation EPN Udayakumara - Relationship Between Soil Erosion and Water Quality, Pesticide Residues of Uma Oya Watershed, Sri Lanka Glenn Fernandez - The Role of Universities in Helping Provide Bases for Urban Disaster Resilience Action Plans Damithri Jayasekara - Looking back and thinking ahead: lessons learnt by a garbage dump collapse in Colombo, Sri Lanka Vishal Narain - Mainstreaming Social capital and disaster risk reduction in education curricula: a peri urban perspective Roxana Leitold - Acting under the uncertainty of flooding: Firms' exposure and adaptation strategies in Ho Chi Minh City, Vietnam Menjadi Yonariza - Sustainability of Hydropower Plant Under Highly Competitive Land Uses in the Catchment Area Parvez Hayat - Sustainable Development, DRR and Disaster Resilience <p>Q&A</p>
<p>14:00 - 15:40 Technical Session (TS-03)</p> <p>Parallel Session</p> <p>(Venue: Room No. B-115, AITCC)</p>	<p>Session Theme: "Technical Session -3"</p> <p>Co-Chairs: Dr. Sangam Shrestha and Dr. Tailin Huang</p> <p>Rapporteurs: Sanju Thapa Shrestha, Ranadheer Reddy</p> <hr/> <ol style="list-style-type: none"> Shenlin Li - Tradeoffs for water resources allocation based on Bayes forecasting model Wenqing Shi - Effects of cascade dams on nitrous oxide emissions in the upper Mekong River Leizhen Liu- Solar-induced chlorophyll fluorescence shows much more related with atmospheric aridity than soil moisture deficit Quan Han- Trend analysis and assessment of surface water quality in a typical shallow lake of North China- Baiyangdian Lake Weifeng Yue - Evaluating climate and irrigation effect on spatiotemporal variabilities of regional groundwater in an arid area using EOFs Yuanzheng Zhai - Water yield and quality response of riverside well field to surface water-groundwater interaction: Evidence from field pumping tests Salvatore Virdis - Satellite-derived water surface temperature: integrating multi-source and multi-resolution imagery with a time series approach Mohana Sundaram - Physical basis for inter nodal hydraulic conductivity estimation in unsaturated zone fluid flow modelling <p>Q&A</p>

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<p>14:00 - 15:40 Technical Session (TS-04)</p> <p>Parallel Session</p> <p>(Venue: Room No. B-225, AITCC)</p>	<p>Session Theme: "Technical Session -4" Co-Chairs: Dr. Binaya Kumar Mishra, Dr. Khamarrul Azahari Razak</p> <p>Rapporteurs: Mahmoud Fadlallah, Uddhav Guragain</p> <hr/> <ol style="list-style-type: none"> Satabdi Das - Disaster Resilient Development in South and South East Asia: The Politico-Diplomatic Equations of Regional Cooperation Mahesh Vishwakarma - Increasing importance of Disaster Management in the syllabus of craft trainees at industrial training centres Tabassam Raza - Estimating Disaster Economic Losses: Impact Rapid Assessment and Disaster Scaling (IRADS) Calculator Wasantha Rathnayake - Exploring 'data gaps' in minimizing disaster impacts: A case study in Ratnapura District in Sri Lanka Khan Ferdousour Rahman - Disaster, Vulnerability and Human Security: Bangladesh Perspective Renan Ma. Tanhueco - Developing Teaching and Learning Modules for a Disaster Readiness and Risk Reduction (dr&rr) Subject Shikha Vishwakarma - Airport Closures in Natural calamities and man-made disasters: Business Vulnerability and Planning Vikrant Panwar - Financing Disaster Losses: Possibilities of Introducing Ex-ante Risk Financing in India <p>Q& A</p>
<p>15:40 - 16:00</p>	<p>Coffee BREAK</p>
<p>16:00 – 17:00 Plenary Session (PD-02)</p> <p>(Venue: Robert B. Bank Auditorium)</p>	<p>Session Theme: "Hydro-met Disaster: Sharing Regional Experiences" Rapporteur: Nandanavanam Karthikeya, Gautam Dadhich</p> <hr/> <ol style="list-style-type: none"> Sangam Shrestha - Session Chair (10 min) Key Note Presentation – Dr. Seree Supratid: 'Global and regional precipitation extremes by CMIP5 models', (20 min) Key Note Presentation – Dr. Madan Lal Shrestha: 'Hydro-meteorological hazards - early warning and its challenges'– (20 min) Plenary discussion and Q&A – (10 min)

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DAY 2: March 8, 2019 (Friday)	
<p>09.00 -10.40 Technical Session (TS-05)</p> <p>Parallel Session</p> <p>(Venue: Room No. B-202, AITCC)</p>	<p>Session Theme: "Technical Session -5"</p> <p>Co-Chairs: Dr. Mokbul Morshed Ahmad, Dr. Subir Sen</p> <p>Rapporteurs: Salote Sarasau, Arlene Gonzales</p> <hr/> <ol style="list-style-type: none"> Joanna McMillan - Understanding the dynamics of climate-related risk and the role of spatial planning in Thailand Gulsan Ara Parvin - Disaster Resilience and Challenges in Sustainable Development- Approach and Assessment of Shyamnagar and Tala upazila of Bangladesh Omkar Parishwad - Building Climate Resilience for the flood prone city of Bhubaneshwar using Spatial Planning measures Md Anwarul Abedin - Citizen science for smart water solution in southwestern part of Bangladesh Bhaskara Rao Mulam - Strengthening Disaster Resilience for Sustainable Development in the SAARC Region: Need for Better Regional Collaborative Strategies, Cooperation and Coordination Mechanisms in South Asia Céline Pierdet - Bangkok facing a challenge to stay resilient to climate change: more or less flood control? Nuttavikhom Phanthuwongpakdee - Expect the Unexpected: Planning for Urban Resilience to Future Crises <p>Q&A</p>
<p>09.00 -10.40 Technical Session (TS-06)</p> <p>Parallel Session</p> <p>(Venue: Room No. B-206, AITCC)</p>	<p>Session Theme: "Technical Session -6"</p> <p>Co-Chairs: Dr. Vishal Narain , Dr. Tabassam Raza</p> <p>Rapporteurs: Afshana Parven , Savaira Sigawale</p> <hr/> <ol style="list-style-type: none"> Binaya Kumar Mishra - Water-related Disaster Risk Management in the context of Federal Nepal Hari Charan Behera - Culture of consumption and climate change: An anthropological inquiry Madhu Mohan Velapgy - Probabilistic Seismic Hazard Assessment Model for GIS based Seismic Risk Study in Thiruvananthapuram City Tamara Faith Kamanga - Framing the Determinants of Vulnerability in Malawian Communities: A Multi Hazard Perspective from Karonga District. S Sarvanan - Assessment of Groundwater Vulnerability in Highly Industrialized Noyyal Basin Using AHP-Drastic and Geographic Information System Lawrence Materum - Sensor Node Positioning and Fractional Data Sampling for Risks Prevention, Recovery, and Adaptation of Wireless Sensor Networks to Different Disaster Scenarios Swarnali Mahmood - The role of Coastal Polder in Sustainable Agricultural Development and Prevention of Salinity Intrusion in Bangladesh – A Case Study <p>Q&A</p>

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<p>09.00 -10.40 Technical Session (TS-07)</p> <p>Parallel Session</p> <p>(Venue: Room No. B-115, AITCC)</p>	<p>Session Theme: "Technical Session - 7"</p> <p>Co-Chairs: Dr. Md Anwarul Abedin, Dr. Tejaskumar Thaker</p> <p>Rapporteurs: Sanju Thapa Shrestha, Ranadheer Reddy</p> <hr/> <ol style="list-style-type: none"> Nakul Tarun - Sustainable means for evacuation in case natural Disaster Endah Tresnasari – Analysis of Landslides Factors at Rinjani Mountain, Lombok Island, East Nusa Tenggara Ramesh Veerappan - Landslide Susceptibility Zonation Mapping using Fuzzy Gamma Operator Model in Part of Trans-Asian Highway (Mao – Kangpokpi), Manipur Vikram Sharma - Landslide Inventory and Susceptibility Mapping in Rupin Watershed of Tons Valley, Garhwal Himalaya, Uttarakhand Nagla Ginawi - Assessing Flood-Induced Public Health Risks and Disaster Risk Reduction in Sudan Kartika Puspita Sari - Comparing the Availability and Features of Disaster-themed Web-Mapping Provided by Different Levels of Government: A Case Study of Indonesia Swetha Sinha - Technology as a catalyst for better governance and resilient communities: Case of Kerala floods, India Andres Winston Oreta - Identifying Research Interventions on Resilience Building using the Ten Essentials for "Making Cities Resilient" Global Campaign <p>Q&A</p>
<p>10:40 - 11:00</p>	<p>COFFEE BREAK</p>
<p>11:00 – 12:40 Technical Session (TS-08)</p> <p>Parallel Session</p> <p>(Venue: Room No. B-202, AITCC)</p>	<p>Session Theme: "Technical Session -8"</p> <p>Co-Chairs: Dr. Anurag Kandya, Dr. Vilas Nitivattananon</p> <p>Rapporteurs: Salote Sarasau, Arlene Gonzales</p> <hr/> <ol style="list-style-type: none"> Jose Edgar Mutuc - Data visualization and analytics: a System Dynamics approach Elsadig Eltigani Elhag – Pre-Hospital Trauma Care in developing countries Raju Sarkar - Determination of probabilities for landslide events- Case Study of Bhutan Himalayas Nikitha.R - Disaster Risk and Resilience: A case of Floods in Coorg district, India Pratyush Tripathy - Assessing Multi-temporal Surface Water Variability of Kodagu, India using Geospatial Techniques Bhaswati Ray - Participatory web based interface to address water issues in parts of rural West Bengal, India Rizky - Hydrodynamic Modeling and Socio-Economic Survey for Flood Disaster Risk Reduction and Preparation of Climate Resilience Guidelines (Case Study: Jakarta, Indonesia) Anurag Kandya - Quantifying the impact of Groundwater uptake rate and the subsequent salinity ingress on agricultural productivity in the western coastal region of India <p>Q&A</p>
<p>11:00 – 12:40 Technical Session (TS-09)</p> <p>Parallel Session</p>	<p>Session Theme: "Technical Session -9"</p> <p>Co-Chairs: Dr. Parvez Hayat, Dr. Iftekhar Ahmed</p> <p>Rapporteurs: Afshana Parven , Savaira Sigawale</p> <hr/> <ol style="list-style-type: none"> Abijith D - Assessment of Severity and Extent of Cyclone Damage Due To GAJA Cyclone in Tamil Nadu, India Leelambar Singh - Identification of Drought Intensity and Development of Drought Resilience in the Rayalaseema Region of Andhra Pradesh, India

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<p>(Venue: Room No. B-206, AITCC)</p>	<ol style="list-style-type: none"> 3. Parthasarathy KSS - Assessment of Socio-economic status in the flood-affected region – A case study for Kerala, India 4. Vishanthini Kanasan - Main Streaming Climate Resilience in Land Use Planning: Case Study in Malaysia Cities 5. Marla Redillas - Investigation on the Potential of LID in Urban Landuses in the Philippines 6. Iftekhah Ahmed - Sustainable Development through Post-Disaster Reconstruction: Foundation of Goodness, Sri Lanka 7. Edris Alam - Enhancing disaster risk governance in local level administration in Bangladesh 8. Stephen Anthony Sutton - Who's telling the story? – The role of trusted stories in effective risk communication for disaster resilience and sustainable development? <p>Q&A – (20 min)</p>
<p>11:00 – 12:40 Technical Session (TS-10)</p> <p>Parallel Session</p> <p>(Venue: Room No. B-115, AITCC)</p>	<p>Session Theme: “Technical Session - 10” Co-Chairs: Dr. Sangam Shrestha, Prof. Wang Guoqiang Rapporteurs: Sanju Thapa Shrestha, Ranadheer Reddy</p> <ol style="list-style-type: none"> 1. Yanguo Teng- Is the water demand for BECCS sustainable? 2. Jiping Yao - Identification of Spatiotemporal Co-movement between Point Source Pollution and Water Quality Monitoring Pollutants Using Artificial Intelligence Technology 3. Jianzhu Li - Effects of future climate and land use changes on droughts on basin scale 4. Kang Pingping - Use of multiple isotopes to evaluate the barrier effect of underground cut-off walls on variations of nitrate in groundwater 5. Zhanling Li - Assessing the Impact of Projected Climate Change on Runoff in Yingluoxia watershed of China using multiple GCMs and Climate Elasticity Method 6. Ruihui Chen - Groundwater Pollution and Risk Assessment based on Source Apportionment in the Lalin River Basin in North-eastern China 7. Pragya Pradhan - Evaluation of AI and Physical-based Models to forecast hydrology in river basin of different climatic regions 8. Chirayut Chirachawala - Evaluation of landuse/land cover and precipitation production for hydrologic prediction in data-scarce watersheds: an application in the Yom River Basin, Thailand <p>Q&A – (20 min)</p>
<p>12:30 – 13:30</p>	<p>LUNCH</p>
<p>13.30 – 15:00 Plenary Session (PS-03)</p> <p>(Venue: Robert B. Bank Auditorium, AITCC)</p>	<p>Discussion Theme: “Resilience and Sustainability: Regional Issues” (co- organized under Bangabandhu chair dialogue) Session Moderator: Prof. Joyashree Roy, Bangabandhu Chair Professor, AIT Rapporteur: Nandanavanam Karthikeya, Gautam Dadhich</p> <ol style="list-style-type: none"> 1. Sheikh Tawhidul Islam, Jahangirnagar University, Bangladesh 2. Sheikh Mohammad Mahbubur Rahman, Institute of Water Modelling, Bangladesh 3. Wang Guoqiang, Beijing Normal University, China 4. Mandira Shrestha, HUC-ICIMOD, Nepal 5. Sylvia Szabo, Asian Institute of Technology, Thailand 6. Indrajit Pal, Asian Institute of Technology, Thailand
<p>15:00 – 16:00 Closing Session</p> <p>(Venue: Robert B. Bank Auditorium, AITCC)</p>	<p>Valedictory Address: H.E. Mr. Md. Nazmul Quanine (TBC), Ambassador, Bangladesh Embassy in Bangkok, Thailand.</p> <ul style="list-style-type: none"> • Symposium Synthesis Report and Way Forward: Dr. Indrajit Pal and Dr. Sangam Shrestha • Vote of Thanks

MC: Avashana Poudyal and Manzari Singh

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