

Asian Conference on Disaster Reduction 2019
25 - 27 November 2019
Ankara, Republic of Turkey

Session 2: Earthquake and Tsunami Risk Management Practices

Background and Objective:

This session focuses on sharing earthquake and tsunami disaster risk management in Asia. It introduces cases in member countries as well as effective technologies for earthquake and tsunami disaster management, including new technologies for earthquake early warning systems (EWS) and earthquake information management.

Date and time: 13:30-15:00, 25 November 2019

Chair:

- Ms. Susana Gonzales Juangco, Director, Capacity Building and Training Service, Office of Civil Defense, Philippines

Expected Speakers:

1. Natural Disaster Reconnaissance and Its Role in Disaster Reduction and Mitigation
Prof. Dr. Ömer Aydan, Department of Civil Engineering, University of the Ryukyus
Name, Organization
2. TBC
Dr. Murat Nurlu, Head of Earthquake Department of AFAD, Turkey
3. TBC
Dr. Öcal Necmioğlu, Deputy Director, Kandilli Observatory and Earthquake Research Institution, Regional Earthquake-Tsunami Monitoring and Evaluation Center, Turkey
4. Earthquake Risk in Bhutan
Mr. Pema Singye, Chief Program Officer, Department of Disaster Management, Ministry of Home and Cultural Affairs
5. Presentation Title
Ms. Susana Gonzales Juangco, Philippines

Speaker's Profile



Ms. Susana Gonzales Juangco is a graduate of Bachelor of Science in Nursing at the Emilio Aguinaldo College. She had finished her Master in Public Health at the University of the Philippines.

Previously holding the position of Nurse VI at the Department of Health where she had been involved in the development of several training courses and reference materials in Health Emergency Management that are being used both locally and internationally.

Likewise, she was one of those who had established the post graduate course on Master in Health Emergency Management as a collaborative partnership between Bicol University and the DOH.

At present Ms Juangco is the Director of the Capacity Building and Training Service of the Office of Civil Defense. She spearheads the development of standards on Disaster Risk Reduction and Management Training Courses and institutionalization of the National Disaster Risk Reduction and Management Institute or the NDRRMTI. She leads in the conduct of several DRRM training related researches such as Incident Command System and Community Based Disaster Risk Reduction and Management. She also heads the establishment of the DRRM Training Information Data System and DRRM Knowledge website. Likewise, she pioneers the advocacy initiatives on earthquake preparedness.

Ms Juangco is one of the technical member representative for the Philippines to the Open - ended Intergovernmental Working Group on Indicators and Terminologies relating to Disaster Risk Reduction and Management.



Ömer Aydan obtained his BSc degree in Mining Engineering from Istanbul Technical University, Turkey, in 1979 and MSc degree in Rock Mechanics and Excavation Engineering from University of Newcastle Upon Tyne in 1982, and his PhD in Rock Mechanics from Nagoya University, Japan, in 1989. Aydan worked at Nagoya University as a research associate (1987-1991), and at the Department of Marine Civil Engineering at Tokai University, first as Assistant Professor (1991-1993), then as Associate Professor (1993-2001), and finally as Professor (2001-2010). Aydan then became Professor of the Institute of Oceanic Research and Development at Tokai University, and is currently Professor at the University of Ryukyus, Department of Civil Engineering and Architecture, Nishihara, Okinawa, Japan. Aydan has played an active role in numerous International Society for Rock Mechanics and Rock Engineering (ISRM), Japan Society of Civil Engineers, Japan Geotechnical Society, Shinozuka Research Institute and Rock Mechanics National Group of Japan committees, and has organized several national and international symposia and conferences. He was the member of the organizing committee of EUROCK2016. He organized 2019 Rock Dynamics Summit in Okinawa, Japan during May 7-11, 2019 as a specialized conference of ISRM. He served as the Chairman of the Rock Dynamics Committee of JSCE for two terms between 2013 and 2018, and also as the chairman of Earthquake Disaster Investigation Committee of JSCE for two terms between 2005 and 2010. He received the 2005 technology award, the 2012 Frontier award and the 2015 Best Paper award of Japan Society of Rock Mechanics (JSRM), the excellent contributions award of the International Association for Computer Methods and Advances in Geomechanics (IACMAG), as well as the 1998 Matsumae Technology award of Tokai University and the 2018 Excellent Research Contribution award of University of the Ryukyus and the 2018 best paper award of Active Fault Society of Japan. He has published 5 books as a part of ISRM Book Series by CRC Press. He has been elected as "ISRM Vice-President at Large" on Sep. 2019 in 14th Congress of iSRM held in Iguassu, Brazil. He was also made Honorary Professor in Earth Science by Pamukkale University (Denizli, Turkey) in 2008.



Dr. Murat Nurlu, Head of Earthquake Department of AFAD. Graduate of Geological Engineering Department from Hacettepe University, Dr. Nurlu worked as research assistant at Hacettepe University Department of Geology and received his Ph.D. Degree in 2002. He worked at several administrative positions at disaster management departments of Turkey. Dr. Nurlu has been Head of the Earthquake Department of AFAD since 2009. He has also field experience on several disasters and emergencies such as 1992 Erzincan Earthquake, 1995 Dinar Earthquake, 1998 Adana-Ceyhan Earthquake, 17 Ağustos 1999 Kocaeli Earthquake, 12 Kasım 1999 Düzce Earthquake, 3 Şubat 2002 Çay (Afyon) Earthquake, 2002 Rize Landslides and Floods, 2005 yılı Karlıova (Bingöl) Earthquake, 2008 Bala (Ankara) Earthquake, 2011 Simav Earthquake and 2011 Van Earthquake. With more than 31 years of Academic and Civil Service experience Dr. Nurlu has profession on disaster management and emergency planning, experience of earthquake risk management and seismology, project management, training, education and coordination, World Bank Project Management, Geographic Information Systems and Remote Sensing. He is the author of more than 100 scientific papers on above mentioned topics



Pema Singye graduated from Sherubtse College in Bhutan with a BA Geography (Hons). He started his career in civil service as an Assistant Administrative Officer. He had worked in several districts in Bhutan performing administrative and human resource jobs over fifteen years. His duties involved general administration whereby he was required to support the District Administrator with preparation of documents, develop proposals, carry out correspondences, recruit and maintain personnel records, help and supervise the subordinate staff, organize commemorative and ad-hoc events, undertake protocol duties for official guests, plan and execute procurement and son on. In 2006-2007, he had

as of 3 October 2019

also functioned as Project Manager for Local Governance and Decentralization Project aimed at enhancing the capacities of local government functionaries. From 2011 to 2015, he got another opportunity to work with a mega hydropower project as Liaison Officer which had also enriched his experience.

In April 2017, he had joined the Department of Disaster Management as Chief Program Officer in the Rehabilitation and Reconstruction Division. Just like communities in the region and across the globe, Bhutan is affected by several hazards including earthquake. Earthquake is the highest ranked hazard as Bhutan lies over a zone that is tectonically active and had experienced a very devastating disaster, about 300 years ago, while earthquake of medium magnitude happen every few years. Due to global warming and the resultant climate change, Bhutan is also increasingly experiencing damaging flash floods and windstorms while also facing increasing risk of Glacial Lake Outburst Flood. In view of such threatening hazards, He finds it important and interesting to work towards making his country a disaster resilient community. As such, he is taking deep interest in enhancing disaster preparedness by involving in and supporting disaster risk reduction programs like preparation of disaster management plans, mock drills, and simulation exercises besides facilitating local governments in availing themselves of fund for response and relief from the central government.