

*An International Geoscientific Event*

**EIGHTH NEPAL GEOLOGICAL CONGRESS (NGC-VIII)**  
“Geosciences in National Development and Disaster Management”

**November 27-29, 2016**  
**Kathmandu, Nepal**

**8<sup>th</sup> NGC Program**



*Organized by*



**Nepal Geological Society**  
**Kathmandu, Nepal**  
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## Inaugural Ceremony

NGC-VIII inauguration by the chief guest, **Hon. Bimalendra Nidhi**, Deputy Prime Minister and Minister for Home Affairs, Government of Nepal

Time	Activity
8:30- 9:00	Registration
9:00-9:05	Arrival of the Chief Guest, <b>Hon. Bimalendra Nidhi</b> , Deputy Prime Minister and Minister for Home Affairs
9:05- 9:10	Dignitaries call on the dais
9:10- 9:20	Program highlight and welcome speech by <b>Dr. Danda Pani Adhikari</b> , President, Nepal Geological Society
9:20- 9:25	Inauguration of the Congress by the Chief Guest, <b>Hon. Bimalendra Nidhi</b> , Deputy Prime Minister and Minister for Home Affairs
9:25- 9:35	Briefing of the Eighth Nepal Geological Congress by <b>Prof. Dr. Tara Nidhi Bhattarai</b> , Convener, 8 <sup>th</sup> Nepal Geological Congress
9:35- 9:45	<ul style="list-style-type: none"><li>- Brief summary of the achievements and contributions of the two NGS members to be honored</li><li>- Confer upon Honorary Fellow Membership to two members of the Nepal Geological Society by the Chief Guest, <b>Hon. Bimalendra Nidhi</b>, Deputy Prime Minister and Minister for Home Affairs</li></ul>
9:45-10:00	Speech by the Honorary Members: <ul style="list-style-type: none"><li>- <b>Mr. Achuta Nanda Bhandary</b>, Kathmandu, Nepal</li><li>- <b>Prof. Dr. Harutaka Sakai</b>, Kyoto University, Japan</li></ul>
10:00-10:10	Speech by the Guest of Honor, <b>Er. Sushil Gyawali</b> , CEO, National Reconstruction Authority (NRA)
10:10-10:20	Address by the Chief Guest, <b>Hon. Bimalendra Nidhi</b> , Deputy Prime Minister and Minister for Home Affairs
10:20-10:30	Vote of thanks by <b>Mr. Mukunda Raj Paudel</b> , Vice-President, Nepal Geological Society
10:30-11:00	Closing of the ceremony and <b>High Tea</b>

**Master of Ceremony (MC): Dr. Prem Bahadur Thapa**, General Secretary, Nepal Geological Society

**Eighth Nepal Geological Congress**  
November 27–29, 2016, Kathmandu, Nepal  
**Day 1: 27<sup>th</sup> November**

**Technical Session I: Keynote Paper Presentations**

**Hall – Regal 1**

**Chairperson:** Tara Nidhi Bhattarai

**Co-Chairperson:** Sudhir Rajaure

<b>Time</b>	<b>Title of Papers</b>	<b>Authors</b>
<b>Keynote Papers</b>		
11.30-12:00	Emplacement and cooling history of the Himalayan Metamorphic Nappe, originated from the partially-melted middle crust of Tibet	<b>Harutaka Sakai, H. Iwano, T. Danhara and S. Hirabayashi</b>
12:00-12:30	Some structural and stratigraphic issues of Himalaya: A need for transboundary correlation	<b>Megh Raj Dhital</b>
12:30-13:00	The 2015 Mw 7.8 Gorkha Earthquake, learnings from GPS and seismological observations	<b>Jean-Philippe Avouac, Prithvilal Shrestha, LokBijaya Adhikari, Som Sapkhota, John Galetzka, Diego Melgar, Lingsen Meng, Shengji Wei, Victoria Stevens, Jean-Paul Ampuero, Eric Lindsey, John Elliott, Romain Jolivet, Yehuda Bock, Joachim F. Genrich and Jianghui Geng</b>
13:00-14:00	<b>Lunch Break</b>	

**Technical Session II: Earthquake Risk Management: Policy, Planning and Implementation**

**Hall – Regal 1**

**Chairperson:** Hiroshi Sato

**Co-Chairperson:** Jagannath Joshi

<b>Time</b>	<b>Title of Papers</b>	<b>Authors</b>
14:00-14:20	2015 Gorkha Earthquake of Nepal- a test of time	<b><i>Amod Mani Dixit</i></b> (Keynote Speaker)
14:20-14:35	Landslides and other damage to buildings and infrastructures from the April-May 2015 earthquake sequence, Solukhumbu District (Nepal)	<b><i>Monique Fort, Narendra Raj Khanal, Joëlle Smadja, Umesh Kumar Mandal and Jeevan Kutu</i></b>
14:35-14:50	Seismic site effect assessment of Kathmandu Metropolitan city due to Mw 7.8 Gorkha Earthquake	<b><i>Govinda Prasad Niroula, Deepak Chamlagain and Indra Prasad Acharya</i></b>
14:50-15:05	Major issues of post-earthquake housing construction during resettlement	<b><i>Raju Sarkar, Karan Narang and Sonam Yangdhen</i></b>
15:05-15:20	Probabilistic Seismic Hazard Analysis of Nepal	<b><i>Bidhya Subedi and Hari Ram Parajuli</i></b>
15:20-15:35	Building Damage Patterns during April 25, 2015 Gorkha Earthquake in Nepal and “Baliyo Ghar” program for technical support in earthquake reconstruction	<b><i>Ramesh Guragain, Ranjan Dhungel, Pramod Khatiwada, Ayush Baskota and Achyut Paudel</i></b>
15:35-15:50	Building with Earth: Earthbag technology	<b><i>Kateryna Zemskova, Owen Geiger and Roshan Kumar Jha</i></b>
15:50-16:05	Himalayan earthquake museum	<b><i>Fushimi Hiroji</i></b>

**Technical Session III: Geohazards and Risk Management**

**Hall – Regal 2**

**Chairperson:**      Dinesh Chandra Devkota

**Co- Chairperson:** Shanmukhesh Chandra Amatya

<b>Time</b>	<b>Title of Papers</b>	<b>Author(s)</b>
14:00-14:20	The riddle of the Sabche Cirque, the huge high-mountain depression in Annapurna Range, Western Nepal	<b>Jörg Hanisch</b> (Keynote Speaker)
14:20-14:35	Comprehensive inventory of Glacial Lakes of five major River Basins in the Hindu Kush Himalaya	<b>Sudan B. Maharjan,</b> <i>Pradeep K. Mool, Wu Lizong, Rajendra B. Shrestha Gao Xiao, Finu Shrestha, Samjwal R. Bajracharya, Narendra Raj Khanal and Sharad Joshi</i>
14:35-14:50	Numerical simulation of centrifuge tests with considering dependency of bulk modulus of soil void on degree of saturation and confining pressure	<b>Narayan Marasini and Mitsu Okamura</b>
14:50-15:05	Hydrogeological characteristics of bedrock aquifer of Kathmandu Valley	<b>N. R. Shrestha and U. K. Maskey</b>
15:05-15:20	Geomorphological and geological comparison of suceptibility parameters for rainfall and co-seismic landslides: A case study of Sunkoshi River catchment in Central Nepal	<b>Kaushal Raj Gnyawali and Basanta Raj Adhikari</b>
15:20-15:35	Liquefaction susceptibility mapping of Kathmandu Valley basin floor	<b>Ashish Bastola and Indra Prasad Acharya</b>
15:35-15:50	Landslide susceptibility mapping of Triyuga watershed using analytical hierarchy process (AHP)	<b>Rabindra Choudhary and Dinesh Pathak</b>
15:50-16:05	Effects of riparian vegetation on streambank erosion and bank failure processes: A case study from Kodku River, Lalitpur, Nepal	<b>Ishwor Thapa, Sudarsan Sapkota, and Milan Magar</b>

**Eighth Nepal Geological Congress**  
November 27–29, 2016, Kathmandu, Nepal  
**Day 2: 28<sup>th</sup> November**

**Technical Session IV: Tectonics, Regional Geology and Stratigraphy**

**Hall – Regal 1**

**Chairperson:** Lalu Prasad Paudel

**Co-Chairperson:** Ashok Sigdel

<b>Time</b>	<b>Title of Papers</b>	<b>Authors</b>
09:00-09:20	The role of shear zones and faults within the Greater Himalayan Sequence, eastern Nepal	<b>Mary Hubbard</b> , David Lageson and Roshanraj Bhattarai (Keynote Speaker)
09:20-09:40	Foreland basin evolution in the southern Tibet and Central Nepal: Implications for timing of India–Asia collision	<b>Yiwen Ju</b> , Bhupati Neupane and Prakash Das Ulak (Keynote Speaker)
09:40-09:55	Calcareous nannofossil assemblages during the quaternary in Bengal Fan, Indian Ocean (International Ocean Discovery Program Expedition 354)	<b>Babu Ram Gyawali</b> , Reishi Takashima, Hiroshi Nishi, Jarrett W. Cruz, Alan T. Baxter, Christian France-Lanord, Volkhard Spiess, Tilmann Schwenk and Adam Klaus
09:55-10:10	Neogene Himalayan exhumation and weathering from apatite fission-track thermochronology and clay mineralogy, middle Bengal Fan (IODP Expedition 354)	<b>Pascale Huyghe</b>
10:10-10:25	Diagenetic effects on upper sands of Lower Goru Formation of Lower Cretaceous, Badin Block, Lower Indus Basin, Pakistan	<b>Muhammad Hassan Agheem</b> , Humaira Dars, Sarfraz Hussain Solangi, Ali Ghulam Sahito and Ghulam Mustafa Thebo

<b>Time</b>	<b>Title of Papers</b>	<b>Authors</b>
10:25-10:40	Geological mapping and petrographic analysis with reference to the Tertiary Sequence of the Malikarjun area, Darchula District, Far Western Nepal	<b>Ram Datt Joshi and Megh Raj Dhital</b>
10:40-10:55	Evolution of fluvial systems and geochemistry of the Neogene Siwalik Group, Khutia Khola section, Far Western Nepal Himalaya	<b>Swostik K. Adhikari, Tetsuya Sakai and Barry P. Roser</b>
10:55-11:10	<b>Tea Break</b>	

**Technical Session V: Hydrogeology**

**Hall – Regal 2**

**Chairperson:** Krishna Prasad Kaphle

**Co-Chairperson:** Nir Shakya

<b>Time</b>	<b>Title of Papers</b>	<b>Author(s)</b>
09:00-09:15	Seawater intrusion and its effects on agriculture in coastal parts of Thatta District, Sindh	<b>Shella Bano, Viqar Husain and Ghulam Murtaza</b>
09:15-09:30	Application of electrical resistivity method for the assessment of groundwater potential at Panchkhal Valley, Kavre, Nepal	<b>Umesh Chandra Bhusal, Hari Ghimire, Bhaskar Khatiwada and Prakash Das Ullak</b>
09:30-09:45	Formation of Bis Hazari Tal, A wetland in Chitwan District, Central Nepal	<b>Kabita Karki, Sushmita Bhandari and Suresh Das Shrestha</b>
09:45-10:00	Springs inventory in Khar area, Darchula, Far-Western Nepal	<b>Moti Lal Rijal and Prabin Chandra KC</b>
10:00-11:15	Study of dam of Imja Glacier Lake in eastern Nepal using Electrical Resistivity Tomography (ERT) method	<b>Puspa Raj Dahal, Prakash Pokhrel and Kabi Raj Paudyal</b>



<b>Time</b>	<b>Title of Papers</b>	<b>Author(s)</b>
10:15-10:30	The study of Kakani-Okharpauwa area hard rock aquifer based on hydrogeological and geophysical approach	<b>Saroj Niraula, Suresh Das Shrestha and Naba Raj Shrestha</b>
10:35-10:50	Landslide research and mitigation Initiatives in Chure Area of Nepal: A collaboration between Nepal Government and Tribhuvan University	<b>Subodh Dhakal, Prem Paudel, Keshab Goutam, Kedar Rijal, Rejina Maskey, Ram Chandra Tiwari, Ajay Bhakta Mathema, Suman Pandey, Niraj Bal Tamang, Kumod Raj Lekhak, Shanta Bastola, Padam Budha and Nabin Nepali</b>
10:50-11:05	<b>Tea Break</b>	

**Technical Session VI: Seismology and Seismotectonics**

**Hall – Regal 1**

**Chairperson:** Mary Hubbard

**Co-Chairperson:** Kristen Cook

<b>Time</b>	<b>Title of Papers</b>	<b>Author(s)</b>
11:15-11:35	Generation of synthetic ground motion	<b>Rajesh Kumar Shrestha</b>
11:35-11:50	Probabilistic seismic hazard analysis of Nepal considering uniform density model	<b>Sunita Ghimire and Hari Ram Parajuli</b>
11:50-12:05	Coupling on the Main Frontal Thrust and magnitude of the maximum plausible earthquake in the Himalaya	<b>Victoria Stevens and Jean-Philippe Avouac</b>

12:05-12:20	Crustal structure and mapping the decollement beneath Nepal	<b>Surya Pachhai, Keith Priestley and Abdelkrim Aoudia</b>
12:20-12:35	Comparison of shear wave velocity derived from PS logging, MASW and refraction wave method – case study in different areas of Bangladesh	<b>A.S.M. Woobaid Ullah and D.M. Enamul Haque</b>
12:35-12:50	Investigation of karst features in the Kusma area of Parbat District using electrical resistivity tomography and Ground Penetrating Radar	<b>K. P. Subedi, S. Lamsal, U. C. Bhusal, S. Rajaure, K. R. Paudyal, B. R. Adhakari and L. P. Paudel</b>
12:50-13:05	Detection of non linear response using the main shock and it's aftershocks of the 2015 Gorkha earthquake recorded at DMG, KATNP and KTP sites in the Kathmandu Valley, Nepal	<b>Mukunda Bhattarai, Lok Bijaya Adhikari, Bharat Prasad Koirala, Thakur Prasad Kandel, Chintan Timsina Ratna Mani Gupta, Kapil Maharjan, Toshiaki Yokoi Takumi Hayashida, Nobuo Takai and Michiko Shigefuji</b>
13:05-13:20	<b>Lunch Break</b>	

**Technical Session VII: 2015-Gorkha**

**Earthquake**

**Hall – Regal 2**

**Chairperson:** Kazuo Konagai

**Co-Chairperson:** Raju Sarkar

<b>Time</b>	<b>Title of Papers</b>	<b>Authors</b>
11:15-11:35	Site effects of the 2015 Gorkha Earthquake sequence: Observations, open questions, and future research avenues	<b>D. Asimaki</b> , J. P. Ampuero, S. Rajaure, S. Hough, S. Martin, M. R. Dhital and N. Takai (Keynote)
11:35-11:50	Segmentation of the Himalayan megathrust around the Gorkha Earthquake (25 April 2015) in Nepal	<b>Jean-Louis Mugnier</b> , Roshan Bhattarai, Ananta Gajurel, and François Jouanne
11:50-12:05	Source fault geometry of the 2015 Gorkha Earthquake (Mw 7.8), Nepal, derived from a dense aftershock observation	Eiji Kurashimo, <b>Hiroshi Sato</b> , Shinichi Sakai, Naoshi Hirata, Ananta Prasad Gajurel, Danda Pani Adhikari, Bishal Nath Upreti, Hiroshi Yagi, Tara Nidhi Bhattarai and Tatsuya Ishiyama
12:05-12:20	Pre- and post-seismic deformation related to the 2015, Mw7:8 Gorkha Earthquake, Nepal	<b>Adriano Gualandi</b> , Jean-Philippe Avouac, John Galetzka, Joachim Genrich, Geoffrey Blewitt, Lok Bijaya Adhikari, Bharat Prasad Koirala, Ratnamani Gupta, Bishal Nath Upreti, Beth Pratt-Sitaula, Jing Liu-Zeng
12:20-12:35	Soil liquefaction observations following the 2015 Gorkha Earthquake	<b>H. Benjamin Mason</b> , Rachel K. Adams, Domniki Asimaki, Diwakar Khadka, Robb E. S. Moss and Deepak Rayamajhi
12:35-12:50	Landslide susceptibility assessment of the coseismic landslides induced by April 2015 Gorkha Earthquake of Nepal	<b>Amar Deep Regmi</b> , Cui Peng, Megh Raj Dhital, Jianqiang Zhang, Lijun Su and Xiaoqing Chen

12:50-13:05	Geological observations on history and future of large earthquakes along the Himalayan Frontal Fault relative to the April 25, 2015 M7.8 Gorkha Earthquake near Kathmandu, Nepal	<b>Deepak Chamlagain</b> , Steven G. Wesnousky, Yasuhiro Kumahara, Ian Pierce, Alina Karki and Dipendra Gautam
13:05-13:20	Ongoing research on sediment and geochemical cycles following the Gorkha Earthquake	<b>Ananta P. Gajurel</b> , Maarten Lupker, Sean F. Gallen, Katherine Schide and Lena Märki
13:20-14:20	<b>Lunch Break</b>	

**Technical Session VIII: Gorkha Earthquake: Post-disaster recovery and reconstruction**

**Hall – Regal 1**

**Chairperson:** Sushil Gyawali  
**Co-Chairperson:** Dandapani Adhikari

<b>Time</b>	<b>Title of Papers</b>	<b>Authors</b>
14:20-14:40	Some matters of geotechnical concern for rational reconstruction of areas hit by the April 25th, 2015, Gorkha Earthquake	<b>Kazuo Konagai</b> (Keynote Speaker)
14:40-14:55	State of reconstruction and recovery: Achievements and future challenges	<b>Dhruba Prasad Sharma</b>
14:55-15:10	Challenges and opportunities for integrated community development in the context of post-earthquake reconstruction in Nepal	<b>Chandra B. Shrestha</b>
15:10-15:25	Engineering aspect of Nepal Earthquake 2015	<b>Hari Ram Parajuli</b>

15:25-15:40	Reconstruction and relocation of vulnerable settlements: NRA's expectations from geoscientists	<b><i>Tara Nidhi Bhattarai</i></b>
15:40-15:55	Reviving livelihoods in the earthquake-affected area policy, program and prospects	<b><i>Bishnu B. Bhandari</i></b>
15:55-14:05	Working with NRA: Reconstructing community infrastructure – Building Back Better	<b><i>Magnus Wolfe Murray</i></b>

### **Poster Session**

<b>Time</b>	<b>Title of Posters</b>	<b>Author(s)</b>
16:05-17:00	Assessment of GW contamination due to waste dumping in the Bagmati River bank	<b><i>Sabina Khatri, Christoph Schüth and Lalu Paudel</i></b>
	Geology of Tapa–Murkuti area, Northeast Dang, West Nepal, with special reference to limestone deposits	<b><i>Nam Raj Bhattarai and Megh Raj Dhital</i></b>
	Nagdhunga tunnel plan	<b><i>Nakajima Fumiki, Kiuchi Mitsuo and Robinson Shrestha</i></b>
	Geological and geotechnical investigation of the Myagdi Khola Hydropower Project, Myagdi District, Mid-Western Nepal	<b><i>Laxman Subedi and Dilandra Raj Pathak</i></b>
	Lithology and geologic structure associated with recent landslides in Nepal	<b><i>Alina Karki, Jeffrey S. Kargel and Dhananjay Regmi</i></b>
	Basin modeling for assessment of hydrocarbon prospectivity: case studies from the exterior belt (Terai) and Siwalik fold and thrust belt, Exploration Block 2, Western Nepal	<b><i>Dharma Raj Khadka</i></b>

<b>Poster Session</b>		
<b>Time</b>	<b>Title of Posters</b>	<b>Author(s)</b>
16:05-17:00	Lithostratigraphy and non-metallic mineral resources of the Sundar Bajar-Besi Sahar area, Lamjung District, Western Nepal	<b><i>Kamal Pandey and L. P. Paudel</i></b>
	Seismic refraction survey of Budhi Gandaki Hydropower Project, Central Nepal	<b><i>Manoj Khatiwada and Subesh Ghimire</i></b>
	Geological control on landslides of Sub-Himalayan region	<b><i>Suman Panday, Subodh Dhakal, Niraj Bal Tamang, Nabin Nepali, Padam Bahadur Budha, Kumod Lekhak, Shanta Bastola, Rejina Maskey and Kedar Rijal</i></b>
	Fluvial morphology and dynamics of the Godavari Khola, southeast Kathmandu, Central Nepal	<b><i>Sworup Singh Karki and Naresh Kazi Tamrakar</i></b>
	Vertical electrical soundings for delineating subsurface geology of the Armala Valley area, Kaki District, Western Nepal	<b><i>Bhaskar Khatiwada, Moti Lal Rijal, Umesh Chandra Bhusal and Hari Ghimire</i></b>
	Geological study from Sundar Bajar to Besi Shaha area, Lamjung District, Western Nepal	<b><i>Prakash Pokhrel, Pramod Pokharel and Lalu Prasad Paudel</i></b>
	GIS-based weighted overlay model to determine the best locations for the artificial recharge of groundwater in the southern part of Kathmandu valley within the Kodku watershed	<b><i>Niraj Bal Tamang</i></b>

<b>Poster Session</b>		
<b>Time</b>	<b>Title of Posters</b>	<b>Author(s)</b>
16:05-17:00	Behavior of slope failures before and after the Gorkha Earthquake in the Upper Trihsuli watershed and their susceptibility evaluation	<b>Amar Deep Regmi</b> , Cui Peng and Megh Raj Dhital
	Land use change detection of Kaski District using remote sensing	Joshi Neekita, Acharya Kamal and <b>Tandan Rajendra Prakash</b>
	An overview of the 2015 Gorkha Earthquake-induced geohazards in Nepal and emerging resettlement questions in the face of recovery	<b>Danda Pani Adhikari</b>
	Geotechnical investigation of Seto Gumba, Chandragiri-8, Kathmandu, Nepal	<b>Dilandra Raj Pathak</b> , Dipesh Pandey and Laxman Subedi
	Estimation of above ground biomass and carbon stock using high resolution satellite image	<b>Karki Roshan</b> , Shrestha Sanjeevan, Bhandari Basudev, G.C. Bidur and Dhakal Damodar
	Landslides and threat to the Infrastructures case study of hydropower projects Rasuwa, Nepal	<b>Narayangopal Ghimire</b>
	Sedimentary and Geological Structures Observed Along Amalekhgunj-Hetauda-Suparitar Section	<b>Akash Acharya</b> , Arishma Gadtaula, Badal Pokharel, Bhuvan Panday, Krishna Pudasaini, and Sharmila Neupane
	Depositional Environment of the Siwalik Zone Observed Along Amalekhgunj-Hetauda Section	<b>Harish Dangi</b> , Pushkar Bhandary, Rabina Hada, Sanjeeta Pandit and Shila Bhattarai
17:00-20:00	<b>Reception Dinner</b>	

**Eighth Nepal Geological Congress**  
November 27–29, 2016, Kathmandu, Nepal  
**Day 3: 29<sup>th</sup> November**

**Technical Session IX: Climate Change and Environment**

**Hall – Regal 1**

**Chairperson:** Jörg Hanisch  
**Co-Chairperson:** Prem Bahadur Thapa

<b>Time</b>	<b>Title of Papers</b>	<b>Author(s)</b>
09:00-09:20	Mid Holocene marine transgression and reconstruction of paleoenvironment in and around Dhaka City, Bangladesh	<b>S. K. Saha, Md Hussain Monsur, and Md. Nizam Uddin</b> (Keynote Speaker)
09:20-09:35	2015 Nepal Earthquake: Building back greener for sustainable reconstruction and development	<b>Judy Oglethorpe and Chandra Laxmi</b>
09:35-09:50	Flood risk assessment under different scenarios on climate change, urban Expansion, and economic exposure: a state-of-the-art probabilistic approach in the context of Nepal	<b>Marie Delalay</b>
09:50-10:05	Climate change impact assessment on hydrological regime of Kali Gandaki basin in Nepal using RCP scenarios	<b>Ajay Ratna Bajracharya, Sagar Ratna Bajracharya and Arun Bhakta Shrestha</b>
10:05-10:20	Mainstreaming environmental assessment in infrastructure development projects in Nepal	<b>Nawa Raj Khatiwada, Anish Ghimire and Nivesh Dugar</b>



<b>Time</b>	<b>Title of Papers</b>	<b>Author(s)</b>
10:20-10:35	Climate change impact on glaciers in the Langtang and Imja sub-basins of Nepal from late 70s to 2010	<b>S. R. Bajracharya, O. R. Bajracharya, S. Baidya, S. B. Maharjan and F. Shrestha</b>
10:35-10:50	Climate change and its economical impact in hydropower of Nepal	<b>Dinesh C. Devkota</b>
10:50-11:05	Vulnerability of hydropower projects to climate change in Nepal	<b>Divas B. Basnyat, Jaya K. Gurung, Dibesh Shrestha, Shiva Gopal Shrestha and Sindhu Devkota</b>
11:05-11:20	<b>Tea Break</b>	

**Technical Session X: Geohazards and Risk Management**

**Hall – Regal 2**

**Chairperson:** Rajendra Prasad Khanal  
**Co-Chairperson:** Lila Nath Rimal

<b>Time</b>	<b>Title of Papers</b>	<b>Author(s)</b>
09:00-09:20	Application of geosynthetics to reduce landslide risk in earthquake prone Bhutan	<b>Raju Sarkar, Cheki Dorji, Ankur Mudgal, Ritesh Kurar and Varun Gupta (Keynote Speaker)</b>
09:20-09:35	Geological investigation of river terraces and assessment of sinkhole hazard in the Armala area, Pokhara, Kaski Nepal	<b>Sabin Sharma</b>
09:35-09:50	Landslides from the 2015 Gorkha Earthquake in the BhoteKoshi River valley – post-earthquake modification and implications for sediment export	<b>Kristen Cook, Christoff Andermann, Basanta Adhikari, and Florent Gimbert</b>

<b>Time</b>	<b>Title of Papers</b>	<b>Author(s)</b>
09:50-10:05	Landslide inventory, susceptibility mapping and recommendation of the mitigation measures in Nuwakot District	<b><i>Jagannath Joshi,</i></b> <i>Dipak Bharadwaj and Pradeep Poudyal</i>
10:05-10:20	Perturbation of earth surface process by the 2015 Gorkha Earthquake	<b><i>Christoff Andermann,</i></b> <i>Luc Illien, Niels Hovius, Kristen Cook, Florent Gimbert, Christoph Sens Schönfelder, Sigrid Rössner, Robert Behling and Basanta Adhikari</i>
10:20-10:35	Records of natural hazard in the Kathmandu Valley-fill succession	<b><i>Tetsuya Sakai and</i></b> <i>Ananta Prasad Gajurel</i>
10:35-10:50	Soft sediments deformation structure in Sunakothi Formation: Implication for draining of Paleo-Kathmandu Lake	<b><i>Mukunda Raj Paudel</i></b>
10:50-11:05	Assessment of Kahphuche Glacial Lake expansion and its potential impact on Kaski, Tanahun and Lamjung districts, Nepal, using geospatial tools	<b><i>Saroj Koirala, Judy</i></b> <i>Oglethorpe, Kapil Khanal, Khagendra Raj Poudel, Kalidas Sharma and Krishna Bhandari</i>
11:05-11:20	<b>Tea Break</b>	

**Technical Session XI: Engineering Geology and Infrastructural Development**

**Hall – Regal 1**

**Chairperson:** Judy Oglethorpe  
**Co-Chairperson:** Mukunda Raj Paudel

<b>Time</b>	<b>Title of Papers</b>	<b>Authors</b>
11:20-11:35	Site investigations: importance and challenges for hydropower development in Nepal Himalaya	<b>Subas Chandra Sunuwar</b>
11:35-11:50	Geotechnical Investigation of Soil at Sinkhole Damage Site in Pokhara, Nepal	<b>Rama Mohan Pokhrel, Takashi Kiyota, Reiko Kuwano, Yoshiyuki Yagiura, Takeshi Yoshikawa, Takaaki Ikeda, Toshihiko Katagiri and Jiro Kuwano</b>
11:50-12:05	Study of suspended sediment and its mineral content analysis with impact on hydropower design: A case study of Rahughat Hydroelectric Project	<b>Prakriti Raj Joshi</b>
12:05-12:20	Tunnel squeezing problem and rectification: A case study of Melamchi Water Supply Project, Nepal	<b>Pawan Kumar Shrestha, Ghanashyam Bhattarai, Ramakanta Duwadi and Ghan Bahadur Shrestha</b>
12:20-12:35	Rock support design for underground structures combining existing rock mass classifications and support systems	<b>Kangada Prasai</b>
12:35-12:50	Soil bioengineering techniques for road side slope stabilization in the mid-hill region of Nepal	<b>Madhuban Lal Maskay and Chandra Laxmi Hada</b>
12:50-13:05	Life cycle assessment of expanded polystyrene beads (Eps) based wall panel and its comparison with brick masonry	<b>Dikshya Dhakal, Nawa Raj Khatiwada and Anish Ghimire</b>

<b>Time</b>	<b>Title of Papers</b>	<b>Authors</b>
13:05-13:20	Techniques of Soil Consolidation	<i>Laxmi Prasad Subedi</i>
13:20-14:20	<b>Lunch Break</b>	

## **Technical Session XII: Geohazards, Risk Management and Mineral Resources**

**Hall – Regal 2**

**Chairperson:**                Yiwen Ju

**Co-Chairperson:**        Khum Narayan Paudyal

11:20-11:35	Quaternary geology, karst landforms and subsidence hazard in the Kusma area, Western Nepal: results of preliminary investigations	<i>Sudip Lamsal, <b>Lalu Paudel</b>, Krishna Prasad Subedi and Kabiraj Paudyal</i>
11:35-11:50	Implementation of National building code in municipalities of Nepal	<i><b>Suraj Shrestha</b></i>
11:50-12:05	Study on geological setting and the semi-precious stones in the Marsyangdi Valley from Khudi to Tal, Western Nepal	<i><b>Niraj Singh Thakuri</b> and L. P. Paudel</i>
12:05-12:20	Chemical, XRD and SEM studies of Eocene coals, Nepal	<i><b>Bhupati Neupane</b>, Yiwen Ju and Bishow Raj Silwal</i>
12:20-12:35	Recent status of metallic mineral exploration in Nepal	<i><b>Dharma Raj Khadka</b>, Naresh Maharjan and Hifjur Rahman Khan</i>
12:35-12:50	Geological setting and quality of Bandipur Slate, Tanahu District, Western Nepal Lesser Himalaya	<i><b>Alina Karki</b> and <b>Lalu Prasad Paudel</b></i>

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12:50-13:05	Landslide mechanics and management issues in Nepal	<b><i>Prem Prasad Paudel and Prakash Thapa</i></b>
13:05-13:20	Landslide hazards and risk in Nepal: an inventory of events and analysis of impacts from 1971 to 2014	<b><i>Sujan Raj Adhikari and Ishwor Thapa</i></b>
13:20-13:35	Characteristics of landslide in Nepal Himalaya	<b><i>Prem Bahadur Thapa</i></b>
13:35-13:50	Mineral potential and exploitation status in Nepal: an overview 2016	<b><i>Sushmita Bhandari and Kabita Karki</i></b>
13:50-14:05	<b>Lunch Break</b>	

## **Eighth Nepal Geological Congress**

November 27– 29, 2016, Kathmandu, Nepal

### **Day 3: 29<sup>th</sup> November**

**15:00- 16:00**

**Hall: Regal**

### **Valedictory Session**

<b>Activities</b>	
Session Chair	Dr. Danda Pani Adhikari, President, NGS
Speech	<ul style="list-style-type: none"><li>• Prof. Dr. A.S.M. Woobaid Ullah, Bangladesh</li><li>• Prof. Dr. Yiwen Ju, China</li><li>• Prof. Dr. Jean-Louis Mugnier, France</li><li>• Prof. Dr. Hiroshi Sato, Japan</li><li>• Prof. Dr. Muhammad Hassen Agheem, Pakistan</li><li>• Prof. Dr. Mary Hubbard, USA</li><li>• Prof. Dr. Megh Raj Dhital, Nepal</li></ul>
Congress Report	Prof. Dr. Tara Nidhi Bhattarai, Convener, NGC-VIII
Reporting of the best student award	Dr. Ashok Sigdel, Deputy General Secretary, NGS
Concluding Remarks	Dr. Danda Pani Adhikari, President, NGS

**Master of Ceremony (MC): Dr. Prem Bahadur Thapa**, General Secretary, Nepal Geological Society (NGS)

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