







The 15th Asian Regional Conference of IAEG

Geological Engineering for Societal and Sustainable Development



Organizers:



27-29 November 2025 Kathmandu, Nepal

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In association with

IAEG Bangladesh National Group (IBNG)

And

Nepal Society of Engineering Geology (NSEG)

Organizes

THE 15TH ASIAN REGIONAL CONFERENCE OF INTERNATIONAL ASSOCIATION FOR ENGINEERING GEOLOGY AND THE ENVIRONMENT

Geological Engineering for Societal and Sustainable Development

27th -29th November 2025 Kathmandu, Nepal

Co-Organizers

Jahangirnagar University, Bangladesh
Kagawa University, Takamatsu, Japan



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National Disaster Risk Reduction and Management Authority (NDRRMA)

Department of Mines and Geology (DMG)

Water Resources Research and Development Centre

Central Department of Geology, Tribhuvan University

Department of Geology, Tri-Chandra Campus, Tribhuvan University

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Nepal Engineers' Association (NEA)

National Society for Earthquake Technology – Nepal (NSET)

Himalaya Conservation Group Nepal (HCGN)

Society of Nepalese Architect (SONA)

Society of Consulting Architectural and Engineering Firms (SCAEF)

Nepal Hydrogeological Association (NHA)

Disaster Preparedness Network Nepal (DPNet-Nepal)

Nepal Mathematical Society (NMS)

Society of Transport Engineers Nepal (SOTEN)

Nepal Geotechnical Society (NGS)

Nepal Hydropower Association (NHA)

Nepal Landslide Society (NeLS)

Structural Engineers' Association Nepal

Society of Hydrologist and Meteorologist (SOHAM)

Nepal Tunneling Association (NTA)

Nepal Society for Rock Mechanics (NSRM)

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Indian Society of Engineering Geology (ISEG), India

Chinese Society for Rock Mechanics and Engineering

Journal Of Mountain Science

International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE)

Southeast Asian Geotechnical Society (SEAGS)

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Tunnel Times India

GeoHazards International

BGC Engineering

University of the Punjab, Faculty of Geosc., Lahore





Message from the President Vassilis P. Marinos of the International Association for Engineering Geology and the Environment

It is my great pleasure to welcome you to the 15th IAEG Asian Regional Conference in Kathmandu. For many years, the ARC series has been a vital event for sharing knowledge, building partnerships and advancing engineering geology across Asia. I warmly congratulate the Bangladesh National Group (IBNG) and the Nepal Society of Engineering Geology (NSEG) for their dedication and success in organizing this important event.



As we gather in Nepal, we face both remarkable opportunities and pressing challenges, climate-driven hazards, urban growth and infrastructure demands, alongside transformative technologies such as AI, remote sensing and real-time monitoring. ARC-15 is our chance to combine regional experience with global expertise, ensuring resilient, sustainable solutions for the future.

Together, we will learn from case studies, celebrate our successes and openly discuss the lessons that help us improve. This collaborative spirit, rooted in both regional understanding and global perspective is at the heart of IAEG's mission.

As we convene in the cultural and natural beauty of Nepal, around the Himalayas, let us celebrate our achievements, strengthen our collaborations and reaffirm our shared mission: advancing engineering geology in service of safe, thriving communities across Asia and beyond.

Vassilis P. Marinos

President, International Association for Engineering Geology and the Environment (IAEG)



Message from the Secretary Faquan Wu of the International Association for Engineering Geology and the Environment

Dear Mr. Chairman, Members of the National Groups of Bangladesh and Nepal, Dear Colleagues, Ladies and Gentlemen, Good morning!

First of all, thank you to the Organizing Committee of the Conference for your kind invitation. On behalf of the IAEG Secretariat, I would like to extend my warmest congratulations on the successful opening of the 15th Asian Regional Conference on Engineering Geology (ARC)!

I also want to express my gratitude to all colleagues present here for your attendance and enthusiastic support for this grand event!

The ARC is a flagship event of the IAEG (International Association for Engineering Geology and the Environment), and to date, it has been held 15 times. Notably, the 5th ARC in 2005 and the 11th ARC in 2017 were also hosted in Kathmandu. Engineering geologists from Nepal and other Southeast Asian countries have made significant contributions to the advancement of the international discipline of engineering geology and the development of the IAEG.

Since the IAEG Council approved the organization of the 15th ARC, I have been closely following the progress of the conference preparation work and have been greatly encouraged by it. Engineering geologists from the National Groups of Bangladesh, Nepal, Japan, and other countries have made arduous efforts in the preparation process, and they also navigated adjustments to the conference venue.

I would like to convey my sincere thanks to 15 key conference organizers including Ranjan Kumar Dahal, as well as more than 50 supporting organizations including Gold Sponsor Geobrugg, for their hard work and dedication!

I hope that all delegates, keynote speakers, invited speakers, presenters at plenary and parallel sessions, poster presenters, exhibitors, and all participants will work together to make this conference a high-quality and distinctive event—one that will become a milestone in the history of the ARC! Finally, I wish the conference a complete success!

Thank you!

Faquan WU

Secretary General of IAEG





Message from the President Kumud Raj Kafle of Nepal Society of Engineering Geology (NSEG)

On behalf of the Nepal Society of Engineering Geology (NSEG), it gives me great pleasure to welcome all distinguished participants, speakers, and delegates to the 15th Asian Regional Conference of the International Association for Engineering Geology and the Environment, jointly hosted by Nepal Society of Engineering Geology (NSEG) and IAEG Bangladesh National Group (IBNG) in Kathmandu. This is a proud moment for our society, and we are honored to bring together engineering geologists, geotechnical engineers, policymakers, academics, and practitioners from across Asia and beyond.



NSEG was founded in 2018, as a non-profitable society to foster excellence in engineering geology in Nepal. Our aims include promoting professional practice in engineering geology, supporting training and education, facilitating research and investigations for civil infrastructure, and forging strong links with national and international expertise.

In the context of rapid development and increasing geohazard risk in the Himalayan region, the role of engineering geology is more critical than ever. At ARC-15, we aim to build bridges between scientific research, practical engineering applications, and policy frameworks. Such dialogues will lead to safer infrastructure, better risk-informed planning, and sustainable development across geologically sensitive terrains.

I extend my heartfelt thanks to the organizing committee, sponsors, volunteers, and partners whose tireless efforts have made this conference possible. Your commitment reflects NSEG's mission to advance engineering geology in Nepal and the broader region.

Finally, I wish all participants a stimulating, productive, and memorable ARC-15. May the conversations we have here today lay the foundation for new collaborations that lead to resilient, risk-aware, and sustainable infrastructure for Nepal and beyond.

Kumud Raj Kafle

President, Nepal Society of Engineering Geology (NSEG)











Message from the Joint Conveners of the ARC-15 of IAEG, 2025









It is our great honor and privilege to welcome you all to the 15th Asian Regional Conference of the International Association for Engineering Geology and the Environment (ARC 2025), jointly organized by Bangladesh and Nepal. The Opening Ceremony will be held from 27–29 November 2025 **in** Kathmandu, Nepal, and the Closing Ceremony will take place at Jahangirnagar University, Bangladesh.

ARC 2025 aims to provide the exchange of knowledge, practical experience, and innovative ideas in addressing critical societal and sustainability challenges across Asia, particularly those related to extreme precipitation, climate change, geo-hazards, disaster risk management, resource management, and energy-related issues. In the current era of global climate change, engineering geology and geotechnical engineering have an increasingly vital role in advancing sustainable engineering design and supporting the implementation of the United Nations Sustainable Development Goals (SDGs).

This conference brings together distinguished keynote speakers, invited experts, and participants from multiple continents who will share their expertise, research insights, and technological advancements. Their contributions will help strengthen our collective capacity to manage hazards and disasters, enhance resilience, and promote excellence in engineering and environmental geoscience education and research throughout the Asian region.

A number of city tours and field excursions will be organized during and after the conference for our esteemed participants, providing valuable on-site learning opportunities and cultural exchange. On behalf of the Organizing Committee, we warmly encourage you to actively engage in the sessions, share your experience, and take full advantage of this platform to network and collaborate with the global geo-scientific and engineering community. Your participation and contributions will help shape policy directions, support evidence-based decision-making, and drive innovation toward building a smart, resilient Asia.

We sincerely appreciate the dedication and hard work of all geoscientists, concerned authorities, and members of NSEG and BNG, as well as the Geological Survey of Bangladesh, Jahangirnagar University, Kagawa University (Japan), and our tireless volunteers. Your commitment is instrumental to the success of ARC 2025.

Finally, we extend our best wishes for a highly successful and impactful ARC-15 of IAEG 2025. Thank you.

Ranjan K. Dahal, NSEG Nepal ATM Shakhawat Hossain, IBNG Bangladesh Joint Conveners of the ARC-15 of IAEG, 2025 Nepal and Bangladesh.





Conference Framework

Time		25-Nov				26-Nov		27-Nov	28-Nov	29-Nov	30-Nov	1-Dec	2-Dec	2-Dec
8:00								Registration-on site	Registration-on site					
9:00					Koshi Hall: Workshops			Inagural Ceremony Hi -Tea and Introductory meeting	Keynote lectures	Keynote Lectures				
11:00 12:00 13:00	on site	Workshop : Enhancing Tunneling And Rock Slope Engineein	on-on site	Pre-Conference Excursion (EX-2, EX-3)	and Trainings: Engineering Geological Models- Traditional and Digital Approaches			Parallel Technical Sessions	Paralell Technical Sessions and YEG Program at Koshi Hall	Parallel Technical Sessions	Post- Conference Excursion (EX-5 and EX-6) in Nepal	Post- Conference Excursion (EX-5 and EX-6) in Nepal	Post- Conference Excursion (EX-5 and EX-6) in Nepal	Jhaka
14:00	tratio	g With Rocscienc	Registration-	e Exc	Using IAEG Comission 25			Lunch	Lunch	Lunch	(EX-5	(EX-5	(EX-5	oat D
14.00	Registra	e Software	Regis	nferenc	Guidelines (Fred Bayes,		Workshop and Training:	Parallel Technical	Parallel Technical Sessions	Parallel Technical Sessions	cursion	cursion	cursion	Closing Ceremoat Dhaka
15:00		Tools (Manoj		Pre-Co	Mark Eggers and Anthony		Preparing A Manuscript For An International	Sessions WEG Program at Bagmati hall	Parallel Technical Sessions	Parallel Technical Sessions	nce Ex	nce Ex	nce Exc	Closin
		Verma)			Bowen)		Scientific Journal	Tea/ Coffee Break	Tea/ Coffee Break	Tea/ Coffee Break	erei	erer	erer	
16:00							What Editors And Reviewers Look For. (Janusz	Parallel Technical Sessions	Parallel Technical Sessions	Parallel Technical Sessions	st- Conf	t- Conf	it- Conf	
17:00						IAEG	Wasowski)	Poster Sessions	Poster Sessions	Parallel Technical Sessions	Pos	Pos	Pos	
18:00						Commission		Break	Break	Ending Ceremony				
19:00 20:00						Meeting		Welcome dinner with cultural programs	YEG Program at Hotel Radission, Lazimpat, Kathmandu Only for YEG Members- Registration required at Registration Desk					
22:00 23:00 0:00						1× 7. 1			YEG will visit to LOD at Thamel (Friends and Funs)					







Organizing Committee

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IAEG Vice President for Asia

Prof. Dr. ATM Shakhawat Hossain, President

IAEG Bangladesh National Group

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Keynote Speakers



Dr. Vassilis P. Marinos

Advancements in Tunneling: the Role of Engineering Geology in Design and Construction over the Last 30 Years



Prof. Dr. Shuichi Hasegawa

Significance of Dissected Deep-seated Landside Topography and Hydrothermal Alteration in Active Mountain Belts



Dr. Ann Williams

Climate Change: closing the gap between challenges faced by developing and developed countries



Prof. Dr. rer. nat. Muhammad Qumrul Hassan

Smart Water Management for Sustainable Development: Bridging Groundwater-Surface Water Dynamics Amid Climate Change



Er. Keshav Kumar Sharma

Slope Stability and Resilient Roads in the Himalayas: Nepal's Challenges and Initiatives



Prof. Dr. Christian Zangerl

Deep-Seated Rock Slides: Understanding Processes and Assessing Impacts on Settlements and Infrastructure



Dr. Shahid Azam

New Methods for Characterizing and Modeling the Engineering Behavior of Expansive Soils



Prof. Dr. Trilok Nath Singh

Rockfall Prediction and Prevention in High Hills of Deccan Trap



Dr. Shengwen Qi

Geological Environment and Geohazards in the Qinghai–Xizang Plateau, China



Dr. Daniele Giordan

Glacier instabilities identification and monitoring: case studies in the Alps



Prof. Dr. Keh-Jian (Albert) Shou

On the Catchment Sedimentation and Landslides Induced by 1999 Taiwan Chi-Chi Earthquake



Mr. Anil Pokhrel

An Interdisciplinary Approach to Disaster Risk Reduction and Management and Sustainable Development in Nepal



Prof. Dr. Giovanna Vessia

Neo Deterministic Seismic Hazard Approach (NDSHA) for Seismic Response Analyses in urban areas: a case study from Italian territory



Prof. Dr. Tümay Kadakci Koca

Erosion and Mass Wasting Processes in Post-Wildfire Mountainous Terrains: Impacts and Challenges



Dr. Scott Andersen

The evolution of remote sensing for regional characterization and response to geohazards and extreme events



Mr. Dinesh Napit

Role of the Department of Mines and Geology (DMG) in Advancing Engineering Geological Sciences in Nepal





Dr. Mike Winter

Debris Flow Risk to Roads and Road Users



Dr. Ko-Fei Liu

Wave Dynamics and Geohazards Monitoring



Prof. Dr. Tetsuya Sakai

Potential Natural Hazards in Kathmandu, Nepal: Lessons from Stratigraphic Analysis of the Pleistocene Succession in the Kathmandu Valley



Prof. Dr. Younus Ahmed Khan

Progressive failure analysis based on a method of non-vertical slices (Presentation in closing ceremony in Dhaka)



Dr. Md. Shofiqul Islam

Tectonic Evolution and Seismic Hazards in Bangladesh: Insights from Geophysical and Geotechnical Studies





Dr. H M SayemRole of Suction in Unsaturated soils.



Dr. Arvind Kumar JhaDevelopment of a Laboratory-Scale Model to Evaluate Rainfall-Induced Surface Erosion Mitigation in MICP-Treated Sand



Prof. Dr. Toru TeraoAsian Monsoon, Climate and Climate-Induced Hazards in the Asia and Pacific Region



Dr. Sultana Nasrin NuryQuantitative Analysis for Greening as an option for Sustainable City



Dr. Mahmuda KhatunEstablishment of Rainfall Thresholds for Shallow Landslide in Rangamati Sadar,
Bangladesh



Prof. Dr. Tomochika Tokunaga
Land Subsidence and Subsurface Environmental Changes in the Tokyo
Metropolitan Area, and Possible Groundwater Management for Urban
Sustainability



Prof. Dr. Jia-Jyun Dong
Random Field Modeling of Subsurface Stratigraphic/Parameters and Its
Applications: Using the Taipei Basin as an Example



Dr. Abd Rasid JaaparEmerging Roles of Engineering Geologist in Geotourism Industry: Some Case Studies from Malaysia



Prof. Dr. Atsuko NonomuraCommunication and Application of Engineering Geology for Community Based
Disaster Preparedness



Dr. George PapathanassiouEnhancing liquefaction hazard forecasting on regional scale



Dr. Shahab YasrebiDeep Excavation in Urban Areas: Design and Construction Challenges



Dr. Manoj VermanResilient Tunnelling in the Himalayas: Lessons from Recent Projects





Prof. Dr. Yun-Tae KimQuantitative Debris Flow-Induced Vulnerability Assessment

Prof. Dr. Gonghui Wang

A Complex Landslide in Ichinose Area Triggered by The 2024 Noto Peninsula Earthquake in Japan

Conference Program

	November 25, 2025				
8:00 to 18:00	Onsite Registration				
	Kathmandu Marriott, Kathmandu, Nepal				
9:00 to 17:00	Enhancing Tunneling And Rock Slope Engineering With Rocscience Software				
	Tools				
	By Dr Manoj Verman, Rocscience India				
	November 26, 2025				
8:00 to 18:00	Onsite Registration				
	Kathmandu Marriott, Kathmandu, Nepal				
	Pre-Conference Field Excursions				
8:00-11:00	WEG Outdoor "Walk and Talk" Trekking Session: Chobhar, Kathmandu				
9:00 to 17:00	Ex-2: Kathmandu Valley Tour To Explore Ground Response And Related				
9:00 to 17:00	Reconstruction After The 2025 Gorkha Earthquake, Nepal Ex-3: Day Tour To Explore Engineering Geological Setting Of The Kathmandu				
9.00 to 17.00	Valley				
	Pre-Conference Workshops				
9:00 to 16:00	Engineering Geological Models – Traditional and Digital Approaches Using				
	IAEG Commission 25 Guidelines				
	By Fred Baynes, Mark Eggers and Anthony Bowden				
14:00 to 17:00	Preparing A Manuscript For An International Scientific Journal – What				
	Editors And Reviewers Look For.				
	November 27 - November 29, 2025				
	Main Conference				
	November 30, 2025 - December 2, 2025				
	Post Conference Excursions				
November 30,	Ex-5: Engineering Geology and Geotechnical Characteristics of Kathmandu-				
2025 to	Pokhara Area				
December 2, 2025	By Woman in Engineering Geology Team of NSEG				
November 30,	Ex-6: Engineering Geology Insights: Exploring the Tea Farming Landscapes				
2025 to December 2, 2025	of Far Eastern Nepal from Koshi River, Jhapa to Ilam				
December 2, 2023	By Shuichi Hasegawa and Praveen Upadhayaya Kandel				
	December 2, 2025				
	Closing Ceremony in Dhaka				

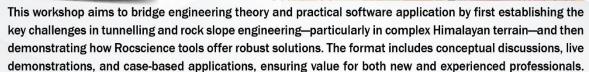
Pre conference Workshop Series in ARC-15 of IAEG

Enhancing Tunneling and Rock Slope Engineering with Rocscience Software Tools will be held in Koshi Hall on November 25 from 9:00 AM - 5 PM. Few seats are still available.

Enhancing Tunnelling and Rock Slope Engineering with Rocscience Software Tools



WORKSHOP OVERVIEW:



WORKSHOP OBJECTIVES:

- •Introduce current geotechnical and geological challenges in tunnelling and rock slopes.
- Demonstrate the use of Rocscience software tools—RS2, RS3, Slide2, Slide3, RocTunnel3, UnWedge, Dips, RocSupport, RocFall2, RocFall3 and others—in addressing real-world problems.



· Facilitate understanding of modelling workflows, interpretation of results, and best practices. Engage participants through practical examples and interactive problem-solving.

Session 1: Context and Engineering Fundamentals

- Tunnelling in Complex Geology: Key Design and Stability Issues
- Rock Slope Engineering: Modes of Failure, Reinforcement Strategies
- Introduction to Numerical and Limit Equilibrium Approaches

Session 2: Rocscience Software Ecosystem

- · Overview of the Rocscience Suite: What, Why, and When
- Core Capabilities and Interoperability of Tools

Session 3: Applications in Tunnelling

- Modelling Tunnel Excavation & Support with RS2 and RS3
- Convergence-Confinement Method of Support Design with RocSupport
- Jointed Rock and Discontinuity Analysis with RocTunnel3, UnWedge & Dips
- Groundwater Effects and Support Interaction

Session 4: Applications in Rock Slopes

- Slope Stability Using Slide2 & Slide3 and RS2 & RS3
- Slope Stability Analysis for Structurally-controlled Instability using RocSlope2, RocSlope3 and Dips
- Probabilistic and Seismic Analysis
- Use of RocFall2 and RocFall3 for Rockfall Hazard Mitigation









TARGET AUDIENCE:





Trainer:



25 November 2025 Full day (9:00 AM - 5:00 PM)





Session 5: Interactive Q&A and Discussion

Engineering geologists, geotechnical engineers, tunnelling specialists, slope stability analysts, academic researchers, and postgraduate students.







Outdoor "Walk and Talk" / Trekking Session

Date and time: November 26, Half Day-8:00 am-11:00 am

This is a Women only Session

Location: Chobhar area, Kathmandu Valley

Description:

Participants will join a short, guided hike through the Chobhar area, exploring its unique geology, geomorphology, and field techniques. The field visit will include discussions on both the geological and cultural context of the region. Notes and handouts of the hiking area will be provided to each participant.

A reflection circle will follow the walk, allowing participants to share insights and build personal and professional connections. Small appreciation tokens, such as WEG badges or IAEG bead bracelets, will be distributed to commemorate the session and foster belonging from IAEG WEG and after hiking-typical Nepali lunch will be provided by NSEG.

Objective:

Build informal connections and camaraderie in a relaxed outdoor setting, promoting inclusivity and collaboration early in the conference.

This is a pre-registered program, and all seats are now full.

Please provide your feedback by scanning this QR code after the session:



Pre conference Workshop Series in ARC-15 of IAEG

Workshop: Engineering Geological Models, Traditional Digital Approaches will be held in Koshi Hall from 9:00 AM - 4PM. The all seats are filled now.



Workshop 2: One-day interactive workshop

Engineering Geological Models - Traditional and Digital Approaches



WORKSHOP OVERVIEW: Hands-on workshop on building Engineering Geological Models using IAEG Commission 25 (IAEG C25) guidelines with real world project examples and highlighting evolution of traditional mapping to digital tools.

KEY THEMES:

- Structured EGM approach using C25 guidelines
- Hands-on modeling for water storage project
- Digital tools for 2D and 3D models
- · Real project examples: dams, hydropower sites
- Interactive session for questions and insights

26 November 2025 | 9:00 to 4:00 PM







Conveners:





Free Workshop on Manuscript Preparation for International Journal

A free workshop on *Manuscript Preparation for International Journal* will be held in Karnali Hall on 26 November from 2:00 PM to 5:00 PM. All interested participants are welcome to join. Please note that the maximum capacity of the hall is 50 persons.

Preparing a Manuscript for an International Scientific Journal - What Editors and Reviewers Look For

WORKSHOP OVERVIEW: Guidance for preparing manuscripts and publishing in top scientific journals covering editorial expectations, writing tips and firsthand insights from Bulletin of Engineering Geology and the Environment (BOEG) editors.

ARGINEONAEO

KEY THEMES:

- Editorial insights on writing strong manuscripts
- Q&A with editors and publishing experts
- Sharing experiences, challenges, and feedback
- Overview of BOEG journal and submission process

Organizers: Co-organizers:











ttps://arc15.nseg.org.np/ 🖾 arc15ktm@gmail.com **(*)** +977-9851060464 | +977-9851154970



26 November 2025 2:00 to 5:00 PM

And Many More



JOINTLY ORGANIZE BY NEPAL AND BANGLADESH KATHMANDU, NEPAL | 27-29 NOVEMBER, 2025



Janusz Wasowski

Vice President, IAEG







15TH ASIAN REGIONAL CONFERENCE OF IAEG



JOINTLY ORGANIZE BY NEPAL AND BANGLADESH KATHMANDU, NEPAL | 27-29 NOVEMBER, 2025

ARC-15 of IAEG Conference Program

Venue: Main Conference Center (Bagmati, Koshi, Karnali, Trishuli Halls) at Kathmandu Marriott,
Naxal, Kathmandu, Nepal



Sliver Sponsors:







Regular Sponsors:

















Day 1 (27 November 2025)

08:30-10:00 Inaugural Session

10:00-10:30 Hi-Tea Break

10:30-13:30 Keynote Session (Bagmati Hall)

13:35-14:30 Lunch

14:30-16:30 Parallel Technical Sessions

Hall Name	Bagmati	Koshi	Karnali	Trishuli
Time	14:30 - 17:05	14:30 - 16:35	14:30 - 16:30	14:30 - 16:45
Parallel Technical	1	2	3	4
Session No.				

16:30-17:30	Poster session-1
-------------	------------------

..... Break

18:30-21:00 Welcome Reception Dinner

Hall Coordinators:

Bagmati Hall: Dr. Sweata Sijapati

Koshi Hall: Dr. Sunil Poudyal

Karnali Hall: Mr. Mohammad Feruj Alam

Trishuli Hall: Dr. Kanchan Chaulagain

Day 2 (28 November 2025)

08:30-11:30 Keynote Session (Bagmati Hall)

11:30-12:00 Tea break

12:00-13:40 Parallel Technical Sessions

Hall Name	Bagmati	Koshi	Karnali	Trishuli
Time	12:00 – 12:50	11:00-13:45	12:00-13:55	12:00-13:40
Parallel Technical	5	7	8	9
Session No.				
Hall Name	Bagmati			·
Time	12:50-13:45			
Parallel Technical	6			
Session No.				

13:30-14:30 Lunch

14:30-16:30 Parallel Technical Sessions

Hall Name	Bagmati	Koshi	Karnali	Trishuli
Time	14:30 - 17:10	14:30 – 17:30	14:30 – 18:00	14:30 – 17:10
Parallel Technical	10	11	12	13
Session No.				

16:30-17:30	Poster Session-2
Bre	eak
18:30-21:00	YEG Dinner

Day 3 (29 November 2025)

08:30-10:30 Keynote session (Bagmati Hall)

10:30-11:00 Tea break

11:00-13:30 Parallel Technical Sessions

Hall Name	Bagmati	Koshi	Karnali	Trishuli
Time	11:00-13:40	11:00-12:05	11:00-12:10	11:00-13:45
Parallel Technical	14	15	17	19
Session No.				
Hall Name		Koshi	Karnali	
Time		12:05-13:45	12:10-13:45	
Parallel Technical		16	18	
Session No.				

13:30-14:30 Lunch

14:30-16:30 Parallel Technical Sessions

Hall Name	Koshi	Karnali	Trishuli
Time	14:30 – 16:40	14:30 – 16:35	14:30 – 16:30
Parallel Technical Session No.	20	21	22

..... Break

17:00-17:45 Ending Ceremony

Day 1: Thursday, November 27, 2025

Nov 27, 08:30 - 10:00 Inaugural Session (Bagmati Hall) – Separate program will be distributed.

Nov 27, 10:00 - 10:30 Break for Hi-Tea

Day 1: Nov 27, 10:30 - 13:30: Keynote Session (Bagmati Hall)

Chair: ATM Shakhawat Hossain

Co-Chair: Nurun Nahar Faruqa and Narayan Gopal Ghimire

Time	Abs. No.	Speaker	Title of the Presentation
Nov 27, 10:30 - 11:00	271	Vassilis Marinos	Advancements in Tunneling: the Role of Engineering Geology in Design and Construction over the Last 30 Years
Nov 27, 11:00 – 11:30	287	Dinesh Kumar Napit Nepal country paper	Role of the Department of Mines and Geology (DMG) in Advancing Engineering Geological Sciences in Nepal
Nov 27, 11:30 - 12:00	273	Shuichi Hasegawa, and Ranjan Kumar Dahal	Significance of Dissected Deep-seated Landside Topography and Hydrothermal Alteration in Active Mountain Belts
Nov 27, 12:00 - 12:30	291	Trilok Nath Singh	Rockfall Prediction and Prevention in High Hills of Deccan Trap
Nov 27, 12:30 - 13:00	260	Keshab Kumar Sharma	Slope Stability and Resilient Roads in the Himalayas: Nepal's Challenges and Initiatives
Nov 27, 13:00 - 13:30	257	Shengwen Qi	Geological Environment and Geohazards in the Qinghai–Xizang Plateau, China
Nov 27, 13:30 - 13:35	Short Presentation from Gold Sponsor: Geobrugg		

Day 1: Nov 27, 13:35 - 14:30: Lunch will be served at the conference venue.

Day 1: Nov 27, 14:30 - 16:30: Parallel Technical Sessions

Day 1: Nov 27, 14:30 - 17:05 (Bagmati Hall)

Parallel Technical Session -1:

WEG Session: The Role of Women in the Development of Engineering Geology

Convener: Ann Williams

Coordinators: Anjila Babu Malla and Mahmuda Khatun

Time	Abs. No.	Speaker/s	Title of the Presentation
Nov 27, 14:30 - 14:45 Nov 27, 14:45 - 15:05	NA 145	Vassilis Marinos IAEG President Invited Lecture Sultana Nasrin Nury, Jason Beringer, Nigel Tapper, and	Remarks on "The Role of Women in the Development of Engineering Geology Quantitative Analysis for Greening as an option for Sustainable City
Nov 27, 15:05 – 15:20	264	Andrew Coutts Sweata Sijapati Heidi Stenner, Ido Bruno, Arthur Brutter, Dinesh Joshi, Hari Kumar, Marc Veletzoz, Prayash Malla, Kirty Tiwari, and Veronica Cellidos	Bridging the safety gap: Earthquake Desks to protect children in vulnerable schools in Nepal
Nov 27, 15:20 – 15:35	263	Yu Huang, Lisha Hei , Yinke Li, Jialing Zou, Chenrui Feng and Taili Zhang	Study on Shear Behavior Characteristics of Completely Weathered Granite Soil Based on Ring Shear Tests

Time	Abs. No.	Speaker/s	Title of the Presentation
Nov 27, 15:35 – 15:50	235	Astha Bhatta , Sunil Poudyal, Qi Zhang, and Charles Wang Wai Ng	Energy dissipation and rheological characterization of sand-clay mixtures
Nov 27, 15:50 - 16:05	194	Chen-Yu LIU and Ya-Chu Chiu	Exploring joint orientation effects on the failure of the interbedded rock slope using UDEC
Nov 27, 16:05- 17:05	Panel Discussion	Panelists: Ann Williams, Ranjan Kumar Dahal, Mahmuda Khatun, Hiromi Kaji Moderators: Sweata Sijapati and Anjila Babu Malla	Global Perspectives on Women's Careers in Engineering Geology: Overcoming Barriers and Creating Opportunities



Please provide your feedback by scanning this QR code after this session.

Day 1: Nov 27, 18:30 - 21:00: Welcome Reception, Dinner and Cultural Programs (Bagmati Hall)

Day 1: Nov 27, 14:30 - 16:35 (Koshi Hall)

Parallel Technical Session - 2:

Theme 2. Active Tectonics and Geohazards

Sub-Theme 2. 4: Engineering Geology Perspectives on the March 2025 Mandalay Earthquake and its effects in Myanmar, Thailand and China

Session Convener: Janusz Wasowski

Rapporteurs: Nirjal Aanand Kumar Pokharel and Nawa Raj Dhakal

Time	Abs. No.	Speaker/s	Title of the Presentation
Nov 27, 14:30 - 14:45	123	Sotiris Valkaniotis, George Papathanassiou, Janusz Wasowski, Maria Taftsoglou, Ranjan Kumar Dahal	Regional-scale inventory of liquefaction triggered by the 2025 Mw 7.7 Mandalay Earthquake, Myanmar
Nov 27, 14:45 - 15:00	149	Tomohiro Nishimura	Response of JSEG (Japan Society of Engineering Geology) to the Noto Peninsula Earthquake in January 2024
Nov 27, 15:00 – 15:15	238	Bharat Prasad Bhandari, Manish Regmi, and Subodh Dhakal	Compositional analysis of reactivated landslide soil from Kodari, Sindhupalchok District, Nepal
Nov 27, 15:15 – 15:30	68	Harbhajan Singh, Mugdha Patwardhan, and Yogendra Deva	An Overview of the Main Central Thrust and a Regional Shear Zone across the Kaligandaki River, Nepal

Time	Abs. No.	Speaker/s	Title of the Presentation
Nov 27, 15:30 – 15:45	135	Hiroshi Yagi and Yuki Matsushi	¹⁰ Be and AMS ages of the Gusakot Landslide, formative age of the gigantic landslide located in eastern mount-foot of the Lantang Himal, central Nepal
Nov 27, 15:45 – 16:00	57	Chun-Yuan Liu, Ching-Fang Lee, Chen-Wei Lan, Zi-Yu Chen, Chao-Chin Pai, and Hao-Jie Zhang	Post-earthquake Unstable Sediment Hazards in Mountain Watersheds: case study from the 2024 ML 7.2 Hualien Earthquake, Taiwan
Nov 27, 16:00 - 16:15	174	Ashis Acharya, Fumihiko Ito, Toshihiro Sakaki, and Tetsuya Kogure	Active heating-based distributed fibre-optic sensing for groundwater characterization
Nov 27, 16:15 - 16:30	237	Sabin Bhattarai , Ranjan Kumar Dahal, and Ananta Man Singh Pradhan	Presenting the results of algorithm-based rainfall thresholds for landslide initiation across different regions of Nepal
Nov 27, 16:30 - 16:35	Token of appreciation distributions to Chair and Rapporteurs		

Day 1: Nov 27, 18:30 - 21:00: Welcome Reception, Dinner and Cultural Program (Bagmati Hall)

Day 1: Nov 27, 14:30 - 16:30 (Karnali Hall)

Parallel Technical Session - 3

Theme 1: Engineering Geology and Geological Engineering for Sustainable Development

Chair: Dhundi Raj Pathak

Rapporteurs: Dinesh Raj Sharma and Md. Azahar Hossain

Time	Abs. No.	Speaker/s	Title of the Presentation
		Invited Lecture	Random-Field Modeling of Subsurface Stratigraphy and Geo-
Nov 27 14:20 14:50	162	Jia-Jyun Dong, Stefan C.	properties: Applications in the Taipei Basin
Nov 27, 14:30 - 14:50	163	Nicholas, Yu-Chen Lu and	
		Charng Hsein Juang	
		Invited Lecture	Emerging Roles of Engineering Geologist in Geotourism Industry:
		Abd Rasid Jaapar, Che Aziz	Some Case Studies from Malaysia
		Ali, James Bachat, Nurin Afrina Mohd Zaid, Mohd Sazaly Basarian, Nur Susila Md Saaid,	
Nov 27 14:E0 15:10	284		
Nov 27, 14:50 - 15:10	204		
		Mohd Ashreen Ashraff	
		Zulkapli, Mison Ajum, Atilia	
		Bashardin, and Norbert Simon	
Nov. 27 15:10 15:05	144	Ruipeng Hao, Bowen Zheng,	Study on the quality classification of rock mass in tectonic mixed
Nov 27, 15:10 – 15:25	144	and Shengwen Qi	rock belt

Time	Abs. No.	Speaker/s	Title of the Presentation
		Indira Shiwakoti	Geotechnical investigation and its challenges in landslide dammed
Nov 27, 15:25 – 15:40	219		valley of Nepal Himalaya: A case history of Upper Tamakoshi
			Hydropower Project
Nov 27 15:40 15:55	202	Qun Qi , Ying Chen, Han Bao,	Whether the spherical fines with rolling resistance can replace
Nov 27, 15:40 – 15:55	203	and Zhihong Nie	the real-shaped fines in granular mixtures
		Yanjun Shang , Xuetao Yi,	Geological structure exploration of the blocked dam in Xinjiang
Nov 27, 15:55 – 16:10	295	Muhammad Hasan, Yonghui	Tianchi and its lithological-structural water-blocking effect
		Wang , Jiang Ai	
N07 40:40 40:05		Juntian Wang and Bao Han, Li	Coupling Effect of Loading Rate and Initial Shear Stress on
Nov 27, 16:10 - 16:25	200	Yao	Landslide and Soil Liquefaction
Nov 27, 16:25 – 16:30	Token of appreciation distributions to Chair and Rapporteurs		

Day 1: Nov 27, 18:30 - 21:00: Welcome Reception, Dinner and Cultural Program (Bagmati Hall)

Day 1: Nov 27, 14:30 - 16:45 (Trishuli Hall)

Parallel Technical Sessions - 4:

Theme 5: Geotechnical and Geo-Environmental Engineering

Sub-Theme 5.3: Unsaturated Soil Mechanics, Physical Properties of Soils, Geo-Environmental Issues

Convener: ATM Shakhawat Hossain

Coordinator: Hossain Md. Sayem

Rapporteurs: Md. Ahsan Habib and Sweta Guragain

Time	Abs. No.	Speaker/s	Title of the Presentation
Nov 27, 14:30 - 14:50	250	Invited Lecture	Role of Suction in Unsaturated Soils
		Hossain Md. Sayem	
Nov 27, 14:50 – 15:10		Invited Lecture	Multistage Consolidated Drained Triaxial Behavior of Shallow
	440	Mahmuda Khatun, A.T.M.	Landslide-Prone Soils in Rangamati Sadar, Bangladesh:
	112	Shakhawat Hossain,	Implications for Slope Stability and Critical State Analysis
		Hossain Md. Sayem	
Nov 27, 15:10 - 15:25	95	Man Brawl	Mechanical Behavior of SandFlyash Mixtures for Weak Rock
			Modeling
Nov 27, 15:25 - 15:40	56	Morris I-Min Wang, Kuo	Blanket Jet Grouting for Uplift Prevention in Deep Excavations
		Chieh Chao, S. H. Cheng,	for Bangkok MRT Purple Line Project
		Ricky K. N. Wong, Prakin	
		Arunotong, Satit	

Time	Abs. No.	Speaker/s	Title of the Presentation
		Plengsuriyarasamee, and	
		Louis Ge	
Nov 27, 15:40 - 15:55	64	Qing Wang, Jianping	Study on Mechanical Properties and Fracture Characteristics
		Chen, Huie Chen, and	of Composite Stabilized Saline Soil under Alternating Wet-Dry
		Cencen Niu	and Freeze-Thaw Cycles
Nov 27, 15:55 - 16:10	71	Tan-Minh Le, Xuan-Xinh	Should JRC be used to assess rock joint hydro-mechanical
		Nguyen, Ting-Bing Hu, and	behavior? Perspectives derived from 3D-printed joint
		Jia-Jyun Dong	aperture measurements
Nov 27, 16:10 - 16:25	78	Tomáš Mladý, Marco	Modelling of cooling rate of clays: an example of indirect
		Loche, and Gianvito	evaluation of heat capacity and storage
		Scaringi	
Nov 27, 16:25 - 16:40	89	Md. Asmaul Islam,	Performance Assessment of Fly Ash and Cement in
		Hossain Md. Sayem, and	Stabilizing Low Strength Soil
		Nousat Ara Maghla	
Nov 27, 16:40 - 16:45	Token of a	ppreciation distributions to	Chair and Rapporteurs

Day 1: Nov 27, 18:30 - 21:00: Welcome Reception, Dinner and Cultural Program (Bagmati Hall)

Day 1: Nov 27, 16:30 - 17:30: Poster Session-1 (In front of Bagmati Hall)

You may paste your poster from 14:00 onward and are welcome to engage with visitors at any time. However, 16:30–17:30 is the dedicated poster session. For the Poster Award evaluation, your presence during 16:30–17:30 is mandatory.

Chair: Ujjwal Krishna Raghubansa **Rapporteur**: Md Shafiqul Islam Sany

Poster No.	Abs. No.	Speaker/s and Title of the Presentation
1	48	Md. Faruk Hasan Seismic Vulnerability and Earthquake Forecasting in the Bengal Basin: Insights from Indo-Burmese Subduction Dynamics
2	82	Salma Akter, Md. Ahsan Habib, Md. Azahar Hossain, Abu Syed Mohammed Faisal, Mohammad Anisur Rahman Environmental Geological Assessments of Kawkhali upazila, Rangamati, Bangladesh
3	131	Tahera Afrin, Delwar Hossain, and Md. Hasan Imam Structural And Stratigraphic Interpretation of Geophysical Data of The Semutang Structure, Bengal Basin, Bangladesh
4	246	Sainsanaa Ishgombo, Enkhbayar Dandar, and Chuluunnast Ichinkhorol Some results of engineering geological investigation for the construction site, Ulaanbaatar, Mongolia
5	140	Md. Ahsan Habib, Abu Syed Mohammed Faisal, Md. Azahar Hossain, Salma Akter Evaluation of Fresh Groundwater Potentials for Future Urban Planning of Sandwip, an Offshore Island in Bangladesh
6	142	Mohammad Arifuzzaman, Michael Schmitz, Manuel Hobiger, Mohammad Anisur Rahman, M. Mahmood Hossain Khan, Md. Hossain Al Imran, Mohammad Khairul Islam, Md. Zillur Rahman, Md. Shahorier Sharker and Asma Huque

Poster No.	Abs. No.	Speaker/s and Title of the Presentation
		Site characterization using passive seismic measurements at Dhaka University, Bangladesh
		Md. Junayed Jahangir, Sadia Ferdows Hridi, Aronya Shihab Mahi, Waheda Akhter, Ishrat Jahan Eva,
7	88	Mrinal Kanti Roy Chowdhery
,	00	Geotechnical Feasibility of Building Foundations in Low-Clay, Braided River Levee Deposits in Jamalpur
		Science and Technology University site: An SPT Study
		Md. Ahsan Habib, Abu Syed Mohammed Faisal, Md. Azahar Hossain, Salma Akter
8	86	Application of Resistivity and Bore Log Data for Fresh Groundwater Exploration in Sandwip Offshore Island,
		Bangladesh
9	124	Md. Anowarul Islam, Toru Terao
	12-7	Flood Susceptibility Analysis for Sylhet Area in the Surma River Basin of Bangladesh
10	169	Minoru Yamanaka, Masaki Ooku, Shuichi Hasegawa, Hiromichi Yano
	100	Detection of Landslide Layer Thickness using Single Microtremor Survey
11	119	Yasuto Hirata and Hiroaki Kobayakawa
''		Valley density as a geomorphic control on rainfall-induced shallow landslides in Japan
12	180	Seigo Sakaki, Teruyuki Kikuchi, Koki Sakita
12	100	Defining Surface Deformation Boundaries Using ICP and Clustering: 2024 Noto Peninsula Earthquake
		Pai-Chiao Lo, Yong-Zhi Huang, Tai-Tien Wang, Wei Lo, Yu-Chung Hsieh
13	199	Integration of geological survey and digital mapping tools for geological modeling to investigate the
10	100	relationship between geological structures and landslide distribution
		Ryo Endo, Hiroyuki Fujiwara
14	202	Analysis of seismic motion characteristics that contribute to earthquake-induced landslides: Case study of
		the 2004 Chuetsu and 2007 Chuetsu-Oki earthquakes

Poster No.	Abs. No.	Speaker/s and Title of the Presentation
15	217	Daisuke Kambara, Shuichi hasegawa, Atsuko nonomura, Minoru Yamanaka Identification of large-scale dissected landslides and verification through microtremor analysis along the Median Tectonic Line in East Shikoku, Japan
16	221	Yui Noichi, Shuichi Hasegawa, Junji Uchida Implementation and Evaluation of the On-site Training Program Bura Hase Aimed at Developing Young Engineers
17	191	Ramesh Pudasaini, Mukunda Raj Paudel, Chhabilal Pokhrel – The Evaluation of Lesser Himalayan Rocks For Ballast in the Nijgadh-Hetauda-Bharatpur Section of Proposed Electrified Mechi-Mahakali Railway, Nepal
18	173	Kosuke Chimoto, Minoru Yamanaka, Shuichi Hasegawa, and Masaki Ooku Array analysis of microtremors measured at landslide sites in Tokushima, Japan
19	212	Bikash Adhikari, Ram Chandra Tiwari, and Aanchal Tiwari Stability of Mountain Slopes Affected by the 2015 Gorkha Earthquake: A Case Study of Bhotekoshi Hydropower, Sindhupalchowk, Nepal
20	158	Yang, Sz-Han, Yang, Che-Ming, Chiu, Yuan-Ting, Yang, Yung-Ning, Hsiao, Tzu-Yu, Hsieh, and Ping-Yu Application of LTFGF and PLAAF for Topographic Characteristics and Activity Assessment: Case Studies of Wuhe and Tsaoling

17:30 - 18:30: Break

Day 1: Nov 27, 18:30 - 21:00: Welcome Reception, Dinner and Cultural Program (Bagmati Hall)



15TH ASIAN REGIONAL CONFERENCE OF IAEG



JOINTLY ORGANIZE BY NEPAL AND BANGLADESH KATHMANDU, NEPAL | 27-29 NOVEMBER, 2025

Day 2 - Friday, November 28, 2025



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Day 2: Nov 28, 08:30 - 11:30: Keynote Session (Bagmati Hall)

Chair: Shuichi Hasegawa

Co-Chair: Md. Nazwanul Haque and Anil Kumar Chaudhary

Time	Abs. No.	Speaker	Title of the Presentation
Nov 28, 08:30 - 09:00	182	Ann Williams	Climate Change: closing the gap between challenges faced by developing and developed countries
Nov 28, 09:00 – 09:30	294	Keh-Jian (Albert) Shou	On the Catchment Sedimentation and Landslides Induced by 1999 Taiwan Chi-Chi Earthquake
Nov 28, 09:30 - 10:00	193	Daniele Giordan	Glacier instabilities identification and monitoring: case studies in the Alps
Nov 28, 10:00 - 10:30	251	Christian Zangerl	Deep-Seated Rock Slides: Understanding Processes and Assessing Impacts on Settlements and Infrastructure
Nov 28, 10:30 - 11:00	288	Anil Pokhrel	An Interdisciplinary Approach to Disaster Risk Reduction and Management and Sustainable Development in Nepal
Nov 28, 11:00 - 11:30	177	Scott A. Anderson	The evolution of remote sensing for regional characterization and response to geohazards and extreme events

Day 2: Nov 28, 11:30 – 12:00: Tea and coffee break

Day 2: Nov 28 - 12:00 - 13:40: Parallel Technical Sessions

Day 2: Nov 28, 12:00- 12:50 (Bagmati Hall)

Parallel Technical Sessions - 5:

Theme 3.1: Landslides and Risk Evaluation

Convener: Ananta Man Singh Pradhan

Rapporteur: Sudhan Kumar Subedi

Time	Abs. No.	Speaker/s	Title of Presentation
Nov 28, 12:00 – 12:20	125	Invited Lecture Yun-Tae Kim, Chang-Ho Song, and Ho-Hong-Duy Nguyen	Quantitative Debris Flow-Induced Vulnerability Assessment
Nov 28, 12:20 - 12:35	239	Ananta Man Singh Pradhan, Yun-Tae Kim	From Hazard Assessment to Action: National Landslide Susceptibility to Rainfall and Early Warning in Nepal
Nov 28, 12:35 – 12:50	231	Masahiko Osada, Yuna Yoshinari and Airi Shijo	Fundamental Study for Real-Time Inundation Depth Estimation Using a New Weather Radar

Day 2: Nov 28, 12:50 - 13:45 (Bagmati Hall)

Parallel Technical Sessions - 6:

Theme 17: The Training and Education in Engineering Geology

Sub-Theme 17.1 Communication and education based on the knowledge of engineering geology

Sub-Theme 17.2 How to get your paper published Journal of Mountain Sciences

Convener: Atsuko Nonomura

Rapporteurs: Sanjeeb Pandey and Md. Hossain Allmran

Time	Abs. No.	Speaker/s	Title of the Presentation
		Invited Lecture	Communication and application of engineering
Nov. 20, 40-50, 42-40		Atsuko Nonomura, Kenichi Nishiyama,	geology for community-based disaster
Nov 28, 12:50 - 13:10	162	Mamoru Yanagiuchi, Yuto Furutani, Azusa	preparedness
		Tonotani	
	218	Hiromi Kaji	Enhancing School Safety Activities: The
Nov 28, 13:10 – 13:25			Contribution of Geological Engineers ~An Example
			from Tochigi Prefecture's Elementary Schools
	285	Qiu Dunlian, Susa Manandhar, Ayaswori	Tips to Draft a Manuscript and Have It Published in
		Byanju, Suvekshya Pandey, Bhawani S.	Journal of Mountain Sciences (Mini Workshop)
Nov 28, 13:25 – 13:45		Dongol, Dinkar Kayastha, Kumar Aryal,	
		Binod Parajuli, Bishnu Prasad Neupane,	
		Devesh Koirala, and Toru Terao	

Day 2: Nov 28, 11:00 - 13:45 (Koshi Hall)

Parallel Technical Sessions - 7: YEG Program

Conveners: Om Prasad Dhakal and Shankar Pantha

Time	Programs	Speakers	Title of the Presentation
Nov 28, 11:00 - 12:15	Panel Discussion	Panelist: Vassilis Marinos, Tumay Kadacki Koca, Manita Timilsina, Sheikh Jafia Jafrin. Moderator: Om Prasad Dhakal	Panel discussion on: Past, Present and Future of Engineering Geology
Nov 28, 12:15 – 13:30	Moderator: Om Prasad Dhakal		Quick-fire YEG Research session
	JUI-Ming Ch	ang	Can AI Replace the Coffee Break? Accelerating Ideation for Geohazards
Each presentation will be 7 minutes long.	Ke Xing		AI-Based Geological Disaster Prevention and Control
	Yong-Zhi, Huang		A Case Study on the Effects of 3D Visualized Engineering Geological Model Uncertainty on Dip-Slope Stability
	Sabin Bhattarai		Next-Generation Landslide Hazard Forecasting System Using AI-Driven Multi-Source Data Fusion and Dynamic Risk Modeling.

Time	Programs	Speakers	Title of the Presentation
Sudhan k		nar Subedi	Comparative Analysis between Crushed Aggregate from Siwalik, Lesser Himalaya and River-Bed Sources in Bagmati Region: Adopting M25 - Plain, Steel Fiber and Glass Fiber Shotcrete
	Amrit Maras	ini	Urban landslide: A Case Study of Jyotinagar landslide, Nepal
	Nusrat Jahan Ritu		Earthquake induced liquefaction risk analysis in the Sediment Mitigation Dyke (SMD) area at Matarbari Mega project, Bangladesh
Nov 28, 13:30 - 13:45	Recorded presentation	Stratis Karantanellis	Al in Engineering Geology and Earth Surface Processes– a new mindset for Young Geoscientists"

Day 2: Nov 28, 13:30 - 14:30: Lunch will be served at the conference venue.

Day 2: Nov 28, 12:00 - 13:55 (Karnali Hall)

Parallel Technical Sessions - 8:

Theme 3: Landslide

Sub-Theme 3.10: Sensing technologies for landslide monitoring toward early warning

Convener: Tetsuya Kogure

Coordinator: Ashis Acharya

Rapporteurs: Mohammad Khairul Islam and Samyog Khanal

Time	Abs. No.	Speaker/s	Title of the Presentation
		Invited Lecture	Point Monitoring Automatic Geohazards Warning System
Nov 28, 12:00 - 12:20	266	Ko-Fei Liu and Shih-Chao	
		Wei	
Nov 28, 12:20 - 12:35	171	Tetsuya Kogure	Monitoring Seasonal Strain Changes with Distributed Fiber
1407 20, 12.20 - 12.33			Optic Sensing at a Landslide Site
	172	Zhouchen Li , Hengxing Lan,	Model experiment study on the anti-erosion capacity of loess
		Weifeng Sun,, Shijie Liu, Han	slope considering moss biocrust coverage and slope gradient
Nov 28, 12:35 – 12:50		Bao, Changgen Yan,	
		Xuancheng Ren, Xiaochan	
		Wang, Yue Gan	
Nov 29 12:50 12:05	281	Pinggen Zhou , Yu Zhou	Inverse Analysis of Initiation Process and Disaster Range Debris
Nov 28, 12:50 – 13:05			Flow Based on CDEM

Time	Abs. No.	Speaker/s	Title of the Presentation
Nov 28, 13:05 - 13:20	155	Sweta Guragain, Mukoyoshi Hideki, Ashis Acharya, Tetsuya Kogure	Microstructures and Physical Properties Characterisation of Rocks Using Multi-Analytical Techniques
Nov 28, 13:20 - 13:35	233	vvn Wei-An Chao, Ming-Wan Huang	From Taiwan to Tibet: Expanding the Real-time Landquake Monitoring System (RLAMS) for Glacier Collapse Events
Nov 28, 13:35 – 13:50	114	Ashis Acharya, Sweta Guragain, Fumihiko Ito, Toshihiro Sakaki, and Tetsuya Kogure	A Novel Approach on Monitoring Fully Grouted Rock Bolt Instrumented with Distributed Fibre-Optic Sensor for Groundwater Characterisation: Laboratory Feasibility Experiments
Nov 28, 13:50-13:55	Token of appreciation distributions to Chair and Rapporteurs		

Day 2: Nov 28, 13:30 - 14:30: Lunch will be served at the conference venue.

Day 2: Nov 28, 12:00 - 13:40 (Trishuli Hall)

Parallel Technical Sessions - 9:

Theme 3: Landslide

Sub-Theme 3.4: Slope Stability

Sub-Theme 3.6: Rock Slope Failure

Sub-Theme 3.8 Cut slope failures

Sub-Theme 3.9: Large-Scale Landslides: Advanced Investigation, Monitoring, and Modelling

Theme 10: Remote Sensing and Geodesy

Convener: Christian Zangerl

Rapporteurs: Sanjay Gautam and Manju Subedi

Time	Abs. No.	Speaker/s	Title of the Presentation
Nov 28, 12:00 - 12:20	289	Invited Lecture Arvind Kumar Jha	Development of a Laboratory-Scale Model to Evaluate Rainfall-Induced Surface Erosion Mitigation in MICP-Treated Sand
Nov 28, 12:20 - 12:35	228	Tunisha Gyawali , Prajwal Timsina, Bhim Kumar Dahal and Ellen B. Robson	Advancing Road Cut Slope Stability in Nepal
Nov 28, 12:35 – 12:50	83	Cheng-Han Lin, Chin-Ho Kuo, Yu-Chao Lin, Chun-Hua Chen and Meng-Chia Weng	Quantitative Rockfall Damage and Risk Analysis on Railroad Infrastructure after the 2024 Hualien Earthquake

Time	Abs. No.	Speaker/s	Title of the Presentation
Nov 28, 12:50 – 13:05	153	Subash Duwadi , Danda Pani Adhikari, Krishna KC Katuwal, and Ramesh Kathariya	GIS-based Multi-Criteria Flood Hazard Assessment in a Mountainous Basin: A Study of the Melamchi River, Nepal
Nov 28, 13:05 - 13:20	208	Yong-Zhi Huang, Chia-Hong Chiu, and Tai-Tien Wang	A Case Study on the Effects of 3D Visualized Engineering Geological Model Uncertainty on Dip-Slope Stability
Nov 28, 13:20-13:25	Token of appreciation distributions to Chair and Rapporteurs		

Day 2: Nov 28, 13:30 - 14:30: Lunch will be served at the conference venue.

Day 2: Nov 28, 14:30 – 17:10 (Bagmati Hall)

Parallel Technical Sessions - 10:

Theme 3: Landslides

Sub-Theme 3.1: Landslides, Debris Flows, and Rock Fall and

Sub-Theme 3:10: Formation of Landslides: Reconstruction, Mapping, Modeling, and Prediction under Different Influencing Factors

Theme 18: Asian Monsoon, Climate and Climate-Induced Hazards

Convener: Łukasz Pawlik
Coordinator: Paweł Kroh

Rapporteurs: Md Khairul Islam and Bhawana Khadka

Time	Abs. No.	Speaker/s	Title of the Presentation
Nov 28, 14:30 - 14:50	38	Invited Lecture Mike G Winter	Debris Flow Risk to Roads and Road Users
Nov 28, 14:50 - 15:05	72	Łukasz Pawlik , Paweł Kroh, Pham Van Tien and Hieu Tran Trung	Geomorphic features explain spatial patterns of landslides in Northern Vietnam
Nov 28, 15:05 – 15:20	220	Pawel Kroh, Łukasz Pawlik Janusz Godziek, Akshay Raj Manocha,, Hieu Tran Trung, Le Hong Luong	Landslide typology as a tool for the main triggering factor description in monsoon landslides in North Vietnam

Time	Abs. No.	Speaker/s	Title of the Presentation
Nov 28, 15:20 – 15:35	34	Alexander Strom , A. Zakharov, L	Lake Sarez the potential hazard assessment based on the
		Zakharova, I. Fomenko, V.	natural analogues of the anticipated hazard chain
		Gusiakov, O. Rubin, A. Antonov	
Nov 28, 15:35 – 15:50	76	Fatin Nadhirah Ahmad Pauzi,	Preliminary Weathering Assessment of Rock Slopes Using
		Mazlina Razali, Mohd Ashraf	CIELAB Color Space and Image Analysis
		Mohamad Ismail, Hayato Tobe,	
		Kensuke Date, Yasuhiro Yokota,	
		and Nirandoal Cheng	
Nov 28, 15:50 – 16:05	74	Nirandoal Cheng, Mohd Ashraf	High-Resolution UAV-Videogrammetry for Discontinuity
		Mohamad Ismail, Fatin	Mapping in Steep Rock Slopes
		Nadhirah Ahmad Pauzi,	
		Yasuhiro Yokota, Hayato Tobe	
Nov 28, 16:05 - 16:20		Xi'an Wang, Jiangang Chen, and	Mitigating Debris Flows: The Role of In-Channel Forests
	179	Han Bao	
Nov 28, 16:20 - 16:35	84	Md Shafiqul Islam Sany,	Evaluation of Seasonal High Resolution Automated Weather
		Mahmuda Khatun, A.T.M.	Station (AWS) Data and its Impact on Society and Sustainability
		Shakhawat Hossain , Terao Toru	- A Case Study at Jahangirnagar University Campus
Nov 28, 16:35 - 16:50		Sanjeev Regmi and Ranjan	Rim Slope Instability of Reservoir and Mitigating Approaches
	240	Kumar Dahal	
Nov 28, 17:05 – 17:10	Token of appreciation distributions to Chair and Rapporteurs		

Day 2: Nov 28, 14:30 - 17:30 (Koshi Hall)

Parallel Technical Sessions - 11:

Theme 1: Engineering Geology and Geological Engineering for Sustainable Development

Theme 7: Urban Geology, Urban Planning and Management - Engineering geological perspective

Sub-Theme: 7.4: Conceiving Reliable Engineering Geological Models for mining activities, infrastructures and building design, risk and urban planning

Sub-Theme 7.5: Deep Excavation in Urban Areas: Design and Construction Challenges

Session Conveners: Shahab Yasrebi, Giovanna Vessia

Rapporteurs: Tahera Afrin and Mohan Raj Shrestha

Time	Abs. No.	Speaker/s	Title of the Presentation
Nov 28, 14:30 - 14:50	213	Invited Lecture	Potential Natural Hazards in Kathmandu, Nepal: Lessons from
		Tetsuya Sakai	Stratigraphic Analysis of the Pleistocene Succession in the
			Kathmandu Valley
Nov 28, 14:50 - 15:10	108	Invited Lecture	Deep Excavation in Urban Areas: Design and Construction
		Dr. Shahab Yasrebi	Challenges
Nov 28, 15:10 - 15:25	230	Khuram Shehzad	Role of Engineering Geology in Mining aggregate, Building stone: A
			Case Study of Sangjani Taxila, Limestone, Islamabad, Pakistan
Nov 28, 15:25 – 15:40	248	Narayangopal Ghimire,	Integrated Geomorphological and Remote Sensing-Based
		Ranjan Kumar Dahal, and	Recognition of Deep-Seated Gravitational Slope Deformations
		Lalu Prasad Paudel	Around the Budhigandaki Hydropower Reservoir, Central Nepal
			Himalaya

Time	Abs. No.	Speaker/s	Title of the Presentation
Nov 28, 15:40 – 15:55	167	Om prasad Dhakal, Sumit	How will Melamchi Disaster 2021 look like in warmer temperature?
		Das, Marco Loche, Ranjan	
		Kumar Dahal, and	
		Gianvito Scaringi	
Nov 28, 15:55 – 16:10	229	Durga Prasad Bashyal	Study on Poisson's ratio anisotropy of foliated metamorphic rocks
		and Suman Panthee	of Central Nepal
Nov 28, 16:10 – 16:25	262	Mohammed Musthafa	Stability Assessment of High Cliff Slopes `in Carbonate Rocks - A
		Khaleel, Anas Al Barakat,	Case Study, Kingdom of Saudi Arabia (KSA).
		Mohammed J Ahmed,	
		Shahid Iqbal, Kurian Jacob	
Nov 28, 16:25 - 16:40	201	Manju Subedi , Goma	Flood Susceptibility mapping with integrated GIS and Analytical
		Khadka, Suman Maharjan,	Hierarchy Process: A case study from Mayadevi Rural Municipality,
		and Sunil Lamsal	Rupandehi district, Nepal
Nov 28, 16:40 - 16:55	206	Valerio Piattelli,	Urban-Scale Risk Assessment of Rainfall-Induced Rock-Slope
		Giovanna Vessia	Instabilities: The Case Study of Popoli Terme (Abruzzo, Italy)
Nov 28, 16:55 – 17:10		Yuki Matsushi	Possible mechanisms of cascading hillslope mass movements
	129		induced by earthquake and heavy rainfall in the Noto Peninsula,
			Japan
Nov 28, 17:10-17:25	247	Sanjay Gautam, Bandana	A Review of Rainfall Thresholds for Landslide Occurrence in the
		Joshi, and Keshab Sharma	Hindu Kush Himalaya (HKH)
Nov 28, 17:25-17:30	Token of ap	preciation distributions to (Chair and Rapporteurs

Day 2: Nov 28, 14:30 – 17:45 (Karnali Hall)

Parallel Technical Sessions - 12:

Theme 7: Urban Geology, Urban Planning and Management

Convener: Michael Schmitz

Co-conveners: Manuel Hobiger, Asma Huque, Mohammad Feruj Alam

Time	Abs. No.	Speaker/s	Title of the Presentation
Nov 28, 14:30 - 14:45		Asma Huque, Werner Buchert, Andreas	Principal outcomes of the German Bangladesh
		Günther, Michael Schmitz, Manuel Hobiger,	Technical cooperation project on Geo-
		Mohammad Feruj Alam, Mohammad Anisur	information for the implementation of a climate
		Rahman, Mohammad Arifuzzaman, Hossain	change-resilient urbanization (GICU).
	138	Mohammad Arifeen, Tahera Afrin,	
		Mohammad Khairul Islam, Md. Hossain Al	
		Imran, Md. Mahmood Hossain Khan, Martin	
		Falke, Uta Philipp, Manuel Wurzer, Sulamith	
		Kastl Shayela Hossain	
Nov 28, 14:45 - 15:00		Tahera Afrin, Lukas Wimmer, Mohammad	Land Use Pattern Alteration due to Rapid and
	407	Khairul Islam, Mohammad Feruj Alam,	Unregulated Urbanization: A Geospatial Study of
	127	Mohammad Ashraful Kamal and Werner	Khulna City and Surroundings
		Buchert	
Nov 28, 15:00 – 15:15	60	Mohammad Ashraful Kamal, Sarwat	Land Use Suitability Analysis for Urban Spatial
	60	Jabeen, Nurun Nahar Faruqa, A.T.M	Planning and Development of Barisal

Time	Abs. No.	Speaker/s	Title of the Presentation
		Asaduzzaman, Andreas Gunther, Werner	Metropolitan City and Surroundings Using Geo-
		Buchert, Md. Mahmood Hossain Khan,	factors Multi-Criteria Analysis
		Mohammad Feruj Alam, Md Nazwanul Haque, Mohammad Anisur Rahman, Rintu	
		Roy, Tahera Afrin, Mohammad Khairul Islam	
Nov 28, 15:15 – 15:30		Md Nazwanul Haque, Rintu Roy,	Ground Subsidence Study of Barisal City and
	117	Mohammad Ashraful Kamal	Surrounding Areas Using InSAR for Sustainable
			Urban Planning
Nov 28, 15:30 – 15:45		Faruqa Nurun Nahar, Mohammad Ashraful	3-D Voxel Modeling of Near-Surface Sediments:
	130	Kamal, Sarwat Jabeen, Faruk Hossain	Insights into Depositional Environments and
			Geotechnical Properties- A case study of
			Barishal Town and its surroundings, Bangladesh
Nov 28, 15:45 – 16:00		Md. Azahar Hossain, Md. Ahsan Habib, Abu	Geotechnical Data Analysis Contributing
	66	Syed Mohammed Faisal, Mohammad Anisur	Rainfall Triggering Landslide Risk Assessment at
	00	Rahman, Salma Akter	Kawkhali Upazila of Rangamati District,
			Bangladesh
Nov 28, 16:00 - 16:15		Mohammad Feruj Alam, Md. Azahar	3.8 Magnitude Earthquake in Sylhet area,
	132	Hossain, Minhazul Abedin Shakik, Faruk	Bangladesh - A Case Study of School Building
		Hossain and Razi Uddin Khan	Damage
Nov 28, 16:15 – 16:30		Mohammad Anisur Rahman, Md Mahmood	Engineering geophysics for site characterization
	137	Hossain Khan, Ulrich Polom, Andreas	for local seismic hazard assessment in Barishal
	13/	Günther, Mohammad Feruj Alam, Sarwat	city, Bangladesh
		Jabeen	

Time	Abs. No.	Speaker/s	Title of the Presentation
Nov 28, 16:30-16:40	Tea or coff	fee break	
Nov 28, 16:40 – 16:55		Mohammad Khairul Islam, Md. Mahmood	Shear wave velocity determination in Cumilla,
		Hossain Khan, Mohammad Feruj Alam,	Bangladesh, by combined analysis of downhole
	139	Sarwat Jabeen, Faruk Hossain, Tahera Afrin,	seismic and MASW data
		Mohammad Ashraful Kamal and Nurun	
		Nahar Faruqa	
Nov 28, 16:55 – 17:10		Md. Hossain Al Imran, Michael Schmitz,	Site characterization by ambient noise
		Manuel Hobiger, Md. Mahmood Hossain	geophysical and by geotechnical investigations
	141	Khan, Mohammad Anisur Rahman,	at Mirpur, Dhaka, Bangladesh
	141	Mohammad Arfiuzzaman, Mohammad	
		Khairul Islam, Md. Shakhawat Hossain, and	
		Asma Huque	
Nov 28, 17:10 - 17:25		Michael Schmitz, Julio J. Hernández,	Recommendations on implementing results of
	147	Andreas Günther, Werner Buchert, and	seismic microzonation in Bangladesh based on
		Mohammad Feruj Alam	experiences from South America
Nov 28, 17:25 - 17:40		Md. Mahmood Hossain Khan, Aida Azari	Local Peak Ground Acceleration from
	148	Sisi, Manuel Hobiger, Mohammad Anisur	Probabilistic Seismic Hazard Assessment:
	148	Rahman, and Sarwat Jabeen	Methodology and Application for Engineering
			Design in Bangladesh (urban)
Nov 28, 17:40 – 17:45	Token of a	ppreciation distributions to Chair and Rappo	rteurs

Day 2: Nov 28, 14:30 – 17:05: Trishuli Hall:

Parallel Technical Sessions – 13:

Theme 8: Engineering Hydrogeology and Management

Theme 9: Tunneling and Role of Rock Mechanics

Convener: Manoj Verman

Rapporteurs: Rajan Mahat and Sudhan Regmi

Time	Abs. No.	Speaker/s	Title of the presentation
Nov 28, 14:30 - 14:50	164	Invited Lecture	Resilient Tunneling in the Himalayas and Beyond: Lessons from
	104	Manoj Verman	Recent Projects
Nov 28, 14:50 - 15:05	216	Shih Kuan Yu , Wang Tai	Hydrogeological Impact Assessment of Tunnel Excavation Using
		Tien	the TOUGH3–FLAC3D Coupled Modeling Approach
Nov 28, 15:05 - 15:20	136	Chang-No Wu, Chen-En	3D Modeling Techniques and Applications of Geological Cross-
		Chiang, Tung-Chin Wu,	Section Maps: A Case Study of the Shimen Interconnecting
		Chun-Wei Lai and Tsan-	Pipeline Tunnel
		Hung Lin	
Nov 28, 15:20-15:35	242	Rajan Mahat , Anuj	Excavation and Support Challenges in an Exceptionally Weak
		Siwakoti, Ghan Bahadur	Shear Zone in the Lesser Himalaya: A Case Study on Tunneling at
		Shrestha, and Chhatra	UKHPP (28.1 Mw), Taplejung, Nepal
		Bahadur Bashnet	

Time	Abs. No.	Speaker/s	Title of the presentation
Nov 28, 15:35-15:50	195	Masashi Nakaya, Kasumi	Geotechnical challenges and adaptive solutions in the Nagdhunga
		Himeno, and Kenichi Inoue	Tunnel Construction Project
Nov 28, 15:50-16:05	234	Ajay Pratap Singh Tomar,	Comparative Evaluation of Peak Particle Velocity and Dominant
		Saroj Shrestha, and Suman	Frequency in Open-Cast and Underground Blasting of Gneissic
		Panthee	Rock for Structural Safety Assessment
Nov 28, 16:05-16:20	279	Anil Kumar Chaudhary,	Tunnel Stabilization: A Case Study of Effective Grouting and
		Ranjan Kumar Dahal,	Support Measures in Upper Sanigad Hydroelectric Project,
		Kanchan Chaulagai	Bajhang, Nepal
Nov 28, 16:20-16:35	261	Mohammed Musthafa	Anas Al Barakat, Kurian Jacob, Shahid Iqbal
		Khaleel,	Optimization of piles in weak carbonate rocks a case study of
			reclaimed land, Dubai - UAE.
Nov 28, 16:35-16:50	040	Cheng-Yu Fan, Cheng-Han	Preliminary study on the pipeline buckling under thrust faulting
	210	Lin, and Ming-Lang Lin	using the coupled DEM-FDM method
Nov 28, 16:50-17:05	Token of a	ppreciation distributions to 0	Chair and Rapporteurs

Day 2: Nov 28, 16:30 - 17:30: Poster Session-2 (In front of Bagmati Hall)

You may paste your poster from 14:00 onward and are welcome to engage with visitors at any time. However, 16:30–17:30 is the dedicated poster session. For the Poster Award evaluation, your presence during 16:30–17:30 is mandatory.

Chair: Ujjwal Krishna Raghubansa **Rapporteurs:** Durga Kumari Chhetri

Poster No.	Abs. No.	Speaker/s and Title of the Presentation
1	259	Dinesh Raj Sharma, Gunanidhi Pokharel, and Ronash Adhikari
•	259	Role of Agricultural Geology in Sustainable Soil and Crop Management
		Nirjal Aanand Kumar Pokharel and Naresh Kazi Tamrakar
2	215	Evaluation of Engineering Properties of Rapati Nadi Aggregates For Railway Ballast In The Central Nepal Sub-
		Himalaya
		Bikash Adhikari, Ram Chandra Tiwari, and Aanchal Tiwari
3	209	Post-Earthquake Stability and Rehabilitation of Mountain Trails ('Unnat Goreto') in Gorkha and Rasuwa
		Districts, Nepal
	400	Mohanraj Shrestha, Suman Panthee
4	189	Site-Specific Predictive Modeling of Peak Particle Velocity Induced by Blasting in Nepal Young Himalayas
-	00	Ho-Hong-Duy Nguyen, Thanh-Nhan Nguyen, Chang-Ho Song, Yun-Tae Kim
5	63	Landslide Susceptibility Assessment Using a Physics-informed Deep Learning Model
		Hiroshi Yuki, Shinichiro Watanabe, Ryou Kinoshita, Kenta Okamoto, Makoto Kozawa, Noritaka Sakamoto,
	6 223	Reiko Kuwano
6		A Study Based on Large-Scale Model Testing a Field for Subsurface Cavity Detection

Poster No.	Abs. No.	Speaker/s and Title of the Presentation
7	176	Hiroyuki Hashimoto, Akira Sato, and Reiko Kuwano
		Evaluation of shear strength of volcanic soils in mountainous areas using in-situ direct shear test apparatus
		Hossain Mohammad Arifeen, Manuel Wurzer, Andreas Günther, Uta Philipp, Asma Huque, Werner Buchert,
8	134	Mohammad Feruj Alam
		WebGIS: A Smart Approach to Optimize Spatial Data Dissemination (poster)
9	293	Nabina Timilsina, Naresh Tamrakar
9	293	Environmental Sedimentology of Bishnumati River, Northwest Kathmandu Basin, Central Nepal
	178	Manish Adhikari, Naresh Kazi Tamrakar
10		Rock Cut Slope Stability Analysis Using Slope Mass Rating and Kinematics Analysis along Kanti Rajpath from
10		Kalche to Chapeli, Central Nepal
44	475	Dinesh Raj Sharma, Naresh Kazi Tamrakar
11	175	Overview on Development of Railway Line Network in Nepal Himalaya
		Bikash Adhikari, Aastha Singh Bhandari, Ram Chandra Tiwari, and Aanchal Tiwari
40	044	Spatio-Temporal Changes in River Dynamics and Land Cover along the Seti River Floodplain, Kaski District,
12	211	Nepal (1989–2017)
		Constantinos Loupasakis, Antoniadis Nikolaos, Katerina Kavoura, Charalampos Kontoes, Stavroula Alatza,
		Martha Kokkalidou, Nikolaos Stasinos, Katerina-Argyri Paroni, Dimitris Valianatos, Dorothea Aifantopoulou,
		Ismat Sabri, Yassir Elhassan, Ali Feraish Al-Salem, Ali Anmashhadi, Elalim Abdelbaqi Ahmed, Umi Salmah
13	65	Abdul Samad
		Land Subsidence Linked to Evaporite Dissolution in Qatar: Insights from Ground-Truth Survey and PSI InSAR
		Analysis

Poster No.	Abs. No.	Speaker/s and Title of the Presentation
4.4	14 297	Yu Zou
14		Study on Effective Influencing Factors of Common Landslides Susceptibility Methods
45	000	Xiaokun Hou
15	298	Influence of particle morphology on the mechanical characteristics of lunar soil via numerical simulation

Nov. 28, 17:30 - 18:30: Break

18:30 - 21:00: YEG Party at Hotel Radisson, Lazimpat, Kathmandu, Nepal: All registered YEG members are requested to attend. Please note that this program is exclusively for pre-registered and pre-confirmed YEG participants. No extra seats available.



15TH ASIAN REGIONAL CONFERENCE OF IAEG



JOINTLY ORGANIZE BY NEPAL AND BANGLADESH KATHMANDU, NEPAL | 27-29 NOVEMBER, 2025

Day 3 - Saturday, November 29, 2024



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Day 3: Nov 29, 08:30 - 10:30: Keynote Session (Bagmati Hall)

Chair: Daniele Giordan

Co-Chair: Hossain Mohammad Arifeen and Kanchan Chaulagain

Time	Abs. No.	Speaker/s	Title of Presentation
Nov 29, 08:30 - 09:00	258	Muhammad Qumrul Hassan	Smart Water Management for Sustainable Development: Bridging Groundwater-Surface Water Dynamics Amid Climate Change
Nov 29, 09:00 – 09:30	192	Shahid Azam	New Methods for Characterizing and Modeling the Engineering Behavior of Expansive Soils
Nov 29, 09:30 - 10:00	126	Giovanna Vessia	Neo Deterministic Seismic Hazard Approach (NDSHA) for Seismic Response Analyses in urban areas: a case study from Italian territory
Nov 29, 10:00 - 10:30	272	Tümay Kadakci Koca	Erosion and Mass Wasting Processes in Post-Wildfire Mountainous Terrains: Impacts and Challenges

Day 3: Nov 29, 10:30 - 11:00: Tea and coffee break

Day 3: Nov 29, 11:00 - 13:40: Parallel Technical Sessions

Day 3: Nov 29, 11:00 - 13:40 (Bagmati Hall)

Parallel Technical Sessions - 14:

Theme 3: Landslides

Theme 20: Al in Engineering Geology

Sub theme 20.1: Al for Engineering Geology: Recent Advances and Emerging Frontiers

Convener: Ashok Dahal

Coordinator: Md Faruk Hasan and Saru Poudel

Time	Abs. No.	Speaker/s	Title of the Presentation
Nov 29, 11:00 - 11:20	122	Invited Lecture George Papathanassiou, Sotiris Valkaniotis, and Maria Taftsoglou	Enhancing liquefaction hazard forecasting on regional scale
Nov 29, 11:20 – 11-35	276	Jie Dou , Zilin Xiang	From Precursors to Runout: Deep Learning Crack Mapping Coupled with SPH Landslide Dynamics
Nov 29, 11:35 - 11:50	62	Ashok Dahal	Slow-Moving Landslides Modelling using Physics-Informed Neural Networks
Nov 29, 11:50 – 12:05	275	Aonan Dong , Jie Dou	Domain-Adaptive and Efficient Neural Network for Accelerated Post-Earthquake Landslide Recognition

Time	Abs. No.	Speaker/s	Title of the Presentation
Nov 29, 12:05 – 12:20	232	Jui-Ming Chang	An Agentic Machine Learning Pipeline for Drift-Aware Debris Flow Detection
Nov 29, 12:20 - 12:35	91	Md. Mahedi Hasan, Khondaker Emamul Haque, Shamim Ahmed, Nazmul Islam Hasan Md. Mahabubul Hasan, Most. Nishat Yesmin Mim and Md Abdur Rashid	Assessment of Hydrogeochemistry and Groundwater Quality for Drinking and Irrigation in Coastal Aquifer on Lakshmipur, Bangladesh: Using Fuzzy Overlay
Nov 29, 12:35 - 12:50	274	Ke Xing and Jie Dou	Dynamic Landslide Susceptibility Mapping Using InSAR and Machine Learning Fusion
Nov 29, 12:50 - 13:05	277	Jie Dou and Hamza Daud	Assessing the Impact of Multi-Resolution DEMs and Sampling Strategy Uncertainty on Deep Learning-Based Debris Flow Susceptibility Mapping
Nov 29, 13:05 – 13:20	283	Nirmal Kafle	Analyzing Land Use and Land Cover Changes in Bhaktapur District Using Landsat Data with SVM and MLC Classification Approaches
Nov 29, 13:20 – 13:35	249	Lubna Yesmin Khondakar, Michel Jaboyedoff, Ivanna Penna, Zillur Rahman and Farhad Hossain	Investigation of landslides and geoenvironment analysis in Rangamati and adjoining areas of southeastern hilly districts, Bangladesh
Nov 29, 13:35-13:40	Token of appreciation distributions to Chair and Rapporteurs		

Day 3: Nov 29, 13:30 - 14:30: Lunch will be served at the conference venue.

Day 3: Nov 29, 11:00 - 12:05 (Koshi Hall)

Parallel Technical Sessions - 15:

Theme 4: Hydro-climatic and Geological hazards in Developing Countries,

Sub-Theme 4.1 Geohazards in the Himalaya

Sub-Theme 4.2 Flood Hazards

Theme 16: Landfill engineering and solid waste management

Conveners: Monique Fort and Subodh Dhakal

Rapporteurs: Lubna Yesmin Khondakar and Astha Bhatta

Time	Abs. No.	Speaker/s	Title of the Presentation
	168	Narayan Gurung,	The "river functional flooding space" concept for bridge
Nov 29, 11:00 - 11:15		Monique Fort, and	construction in Nepal: How to cope with floods
		Gilles Arnaud-Fassetta	
	245	Keshab Sharma , Alex	The Himalayan Hazard: Post-Event Assessment of Thame
Nov 29, 11:15 – 11:30		Strouth, Emily Mark, and	Glacial Lake Outburst Flood in Everest Region, Nepal
		Madeline Hille	
	196	Dhundi Raj Pathak,	Opportunities for Organic Waste Valorization to Promote a
Nov 29, 11:30 - 11:45		Biplav Acharya, and	Circular Economy in Nepalese Municipalities
		Naman Gurung	
Nov. 20. 44.45 42.00	61	Linfeng Fan	Climate change impacts on hydrological landslide triggering in
Nov 29, 11:45 – 12:00			the northern Himalayas
Nov 29, 12:00 – 12:05	Token of appreciation distributions to Chair and Rapporteurs		

Day 3: Nov 29, 12:05 - 13:45 (Koshi Hall)

Parallel Technical Sessions - 16:

Theme 15: Climate Change and Related Geopolitics

Theme 18: Asian Monsoon, Climate and Climate-Induced Hazards

Sub-Theme 18.1: Mega-geo-disasters under the changing climate and stability in Asian monsoon climate.

Convener: Toru Terao

Rapporteurs: Indira Shiwakoti and Nirmal Kafle

Time	Abs. No.	Speaker/s	Title of the Presentation
Nov 29, 12:05 - 12:25	Abs. No. 170	Invited Lectures Toru Terao, Shinjiro Kanae, Hatsuki Fujinami, Masashi Kiguchi, Fumie Murata, Azusa Fukushima, Yusuke Yamane, Hideyuki Kamimera, Masahiro Tanoue, Hiambok Jones Syiemlieh, Laitpharlang Cajee, Prasanta Bhattacharya, Subashisa Dutta, Rahul Mahanta, Subrat Kumar	Asian Monsoon Climate Stabilities and its Onset Processes: Dynamics and AsiaPEX Field Campaigns
		Panda, Sayeed Ahmed Choudhury, A. T. M. Shakhawat Hossain, Fatima	

Time	Abs. No.	Speaker/s	Title of the Presentation
		Akter, Taiichi Hayashi, and Jun Matsumoto	
Nov 29, 12:25 - 12:40	224	Akshara N G, Arunkumar R , S. K. Panda, Toru Terao, Aditya Sharma, Unashish Mondal, and Devesh Sharma	Regional Shifts in Precipitation Patterns and Indices in North East India
Nov 29, 12:40 - 12:55	286	Dhiraj Pradhananga	Phase Change from Snowfall to Rainfall in the Nepal Himalaya: Observed Shifts, Hydrological Impacts and Implications for Monsoon-driven Mega-geo-disasters
Nov 29, 12:55 – 13:10	186	Atsuko Nonomura and Mujalin Intaramueana	Flood preparedness among primary school learners in Asian monsoon climate in southern Thailand
Nov 29, 13:10 - 13:25	197	Prolay Saha , Rahul Mahanta, Yusuke Yamane, Fumie Murata, Hideyuki Kamimera, and Toru Terao	Post-2000 Escalation of Humid Heatwaves and Emerging Cloudburst Risks across the South Asia
Nov 29, 13:25-13:30		Token of appreciation distribution	ons to Chair and Rapporteurs

Day 3: Nov 29, 13:30 - 14:30: Lunch will be served at the conference venue.

Day 3: Nov 29, 11:00 - 12:10 (Karnali Hall)

Parallel Technical Sessions - 17:

Theme 6: Water and Environmental Engineering

Chair: Sultana Nasrin Nury

Rapporteurs: Bikash Kumar Ram and Khuram Shehzad

Time	Abs No.	Speaker/s	Title of the Presentation
	165	Invited Lecture	Land subsidence and subsurface environmental
Nov 29, 11:00 - 11:20		Tomochika Tokunaga	changes in the Tokyo Metropolitan Area, and possible
			groundwater management for urban sustainability
		Bikash Kumar Ram, Ji-Hoon Lee,	Effect of finer particle content in coarse granular flows
Nov 29, 11:20 - 11:35	188	Beom-Jun Kim, Chan-Young Yune	on the evolution of bed surface morphology under
			different flume inclinations
	116	Md Nazmul Islam Hasan,	Evaluation of groundwater level fluctuation and its
Nov.00 44.05 44.50		Khondaker Emamul Haque,	effects on industries in Shahjadpur, Sirajganj,
Nov 29, 11:35 – 11:50		Shamim Ahmed, Md Mahedi	Bangladesh
		Hasan	
		Ektiar Uddin Mahmud Bakhtiar,	Challenges, Issues, and Climate-Driven Impacts of
Nov 29, 11:50 - 12:05	282	Atm Shakhawat Hossain	Geohazards on Society and Sustainability of
			Bangladesh: Perspectives from Media Coverage
Nov 29, 12:05 – 12:10	Token of appreciation distributions to Chair and Rapporteurs		

Day 3: Nov 29, 12:10 - 13:45 (Karnali Hall)

Parallel Technical Sessions - 18:

Theme 12: Consequences of Geo-Disasters and Disaster Risk Management

Sub-Theme 12.1: Assessment of Geohazard Chains in high Mountain Regions

Subtheme 12.6: Landslide Risk Management

Convener: Hans-Balder Havenith and Mike Winter

Coordinators: Vipin Kumar, Jeevan Kafle, Dario Peduto, Olga Mavrouli

Time	Abs. No.	Speaker/s	Title of the Presentation
Nov 29, 12:10 – 12:25	37	Havenith H.B., P. Cerfontaine, J. Goire, E. Lemaire, A.S. Mreyen and V. Piroton	Structural geology of rockslide scarps analyzed in virtual modelling environments
Nov 29, 12:25 - 12:40	39	Mike G Winter	Road Infrastructure Resilience to Debris Flow
Nov 29, 12:40 - 12:55	121	Koichi Hayashi, Teruyuki Kikuchi	Early detection of debris flow occurrence based on water level and seismic ambient noise measurements
Nov 29, 12:55 - 13:10	183	Sheikh Jafia Jafrin, A.T.M. Hossain, H.M. Sayem, Mahmuda Khatun, Md. Imam	Site Characterization and Rainfall Induced Landslide Risk Assessment at Balukhali Rohingya Refugee Camps of Ukhiya, Bangladesh
Nov 29, 13:10 – 13:25	267	Durga Kumari Chhetri and Ranjan Kumar Dahal	Rainfall Threshold for Landslides Initiation In Palpa District, West-Central Nepal: An Empirical Intensity- Duration Approach
Nov 29, 13:25-13:30	Token of a	appreciation distributions to C	Chair and Rapporteurs

Day 3: Nov 29, 13:30 - 14:30: Lunch will be served at the conference venue.

Day 3: Nov 29, 11:00 - 13:45: Trishuli Hall:

Parallel Technical Sessions - 19:

Theme 11. Seismic Hazards, Earthquake Engineering and Structural Analysis

Subthemes 11.7: Coseismic Landslides: From Case Histories to Risk Assessment

Conveners: Gonghui Wang and Jia-Jyun Dong

Rapporteurs: Durga Prasad Bashyal

Time	Abs. No.	Presenters and Coauthors	Title of the Presentation
Nov 29, 11:00 - 11:20	166	Invited Lecture Md Shofiqul Islam	Tectonic Evolution and Seismic Hazards in Bangladesh: Insights from Geophysical and Geotechnical Studies
Nov 29, 11:20 - 11:40	292	Invited Lecture Gonghui Wang, Jiangkun He, Gen Furuya, Issei Doi, Koichi Hhayashi, and Yasuhiko Okada	A complex landslide in Ichinose area triggered by the 2024 Noto Peninsula Earthquake in Japan
Nov 29, 11:40 – 11-55	214	Deepak Chamlagain	Imaging the Basement Topography of the Kathmandu Basin, Central Nepal: A Passive Seismological Approach
Nov 29, 11:55 - 12:10	241	Suchita Shrestha, Tae- Seob Kang	National Scale Earthquake Susceptibility Mapping Utilizing Explainable Artificial Intelligence in The Nepal Himalaya
Nov 29, 12:10 – 12:25	40	Daya Shanker, Md. Rafih AP	Quantifying Seismic Hazards and Economic Losses in Kerala: A Case Study of Calicut and Surrounding Cities

Time	Abs. No.	Presenters and Coauthors	Title of the Presentation
Nov 29, 12:25 - 12:40	253	Nawa Raj Dhakal, Deepak Chamlagain, Dr. Lalu Prasad Paudel	Seismic Site Effects Assessment of Chitwan Dun Valley
Nov 29, 12:40 - 12:55	54	Md. Shakil Mahabub, ATM Shakhawat Hossain, Nusrat Jahan Retu , and Md. Shafiqul Islam	An Integrated Assessment of Liquefaction Susceptibility in Reclaimed Ground Overlying Soft Coastal Soils Using Multiple In-Situ Penetration Tests
Nov 29, 12:55 - 13:10	243	Gaurab Singh Thapa , Arishma Gadtaula	Approach for Site-Specific PGA Calculation Based on Magnitude and Distance
Nov 29, 13:10 – 13:25	184	Sudhan Kumar Subedi, Shiv Prasad Upadhyay, Rupesh Kumar Pajyar	Seismic Soil-Structure Interaction Analysis and Design of Overhead Liquid Storage Tanks in Kathmandu Valley, Nepal
Nov 29, 13:25 – 13:30	Token of appreciation distributions to Chair and Rapporteurs		

Day 3: Nov 29, 13:30 - 14:30: Lunch will be served at the conference venue.

Day 3: Nov 29, 14:30 - 16:35 (Koshi Hall)

Parallel Technical Sessions - 20:

Theme 5: Geotechnical and Geo-Environmental Engineering

Convener: Md Shofiqul Islam

Rapporteurs: Gaurab Singh Thapa and Apoorwa Dahal

Time	Abs. No.	Speaker/s	Title of the Presentation
		Beom-Jun Kim, Bikash Kumar	Effect of collisional granular flow on the erosion and
Nov 29, 14:30 - 14:45	252	Ram, June-Seo Lee, and Chan-	transport of an erodible bed under varying particle sizes
		Young Yune	and mixing ratios
Nov 20 14:45 15:00	70	Md. Selim Reza and Goh Thian	Assessment of Rock Mass Strength and Slope Stability at
Nov 29, 14:45 - 15:00	70	Lai	Bandar Mahkota Cheras, Malaysia Using RMR and SMR
Nov. 00, 45.00, 45.45	400	Hanli Hu and Reiko KUWANO	Dynamic and static measurements of small-strain moduli
Nov 29, 15:00 – 15:15	198		of Basic oxygen furnace slag
		Chunwei Sun, Xiaoning Li,	Dynamic monitoring of mudstone swelling during water
Nov 29, 15:15 – 15:30	244	Song Liang, Hong Zhao and	absorption via point cloud features
		Sixiang Ling	
		Ujjwal Krishna Raghubansha	Comparative Slope Stability Analysis for Cut Slope of
Nov. 00, 45,00, 45,45	050	and Ranjan Kumar Dahal	Marble made Terrain of Markhu Formation at Chandram
Nov 29, 15:30 – 15:45	256		Bhir and Bhaisedobhan Formation at Ghaghare Bhir of
			Central Nepal
Nov.00 45:45 40:00	454	Yuxuan Shi and Reiko kuwano	Evaluation of the Arching Effect in Cavity with Various
Nov 29, 15:45– 16:00	154		Initial Shapes Based on Principal Stress Vector Field

Time	Abs. No.	Speaker/s	Title of the Presentation
Nov 29, 16:00 - 16:15	222	Jigang Jiang, Reiko Kuwano	Direct shear test on the mechanical behavior of aqueous foam-treated sandy soil
Nov 29, 16:15– 16:30	296	Abhilasha Subedi and Laxmi Subedi	Integrated landslide control techniques using alternative Jute Geo-Grids, soil nailing followed by Zinc-Coated netting with bioengineering, and silica-gel consolidated grouting with zinc netting and bioengineering: A case study of the Muglin –Narayangadh corridor and its applicability across Nepal
Nov 29, 16:30 – 16:35 Token of appreciation distributions to Chair and Rapporteurs			

16:30 - 17:30: Tea and coffee break

Day 3: Nov 29, 14:30 - 16:35 (Karnali Hall)

Parallel Technical Sessions - 21:

Theme 13: Dimension Stones and Quarry Sites

Theme 19: Engineering Geology for Renewable Energy and Sustainable Development

Theme: Consequences of Geo-Disasters and Disaster Risk Management

Convener: Akhilesh Kumar Karna

Rapporteurs: Sabin Bhattarai and Aonan Dong

Time	Abs. No.	Speaker/s	Title of the presentation	
Nov 29, 14:30 - 14:45	225	Wang Huiqing , Xiao Ruihua, Liu Yanhui, Fang Zhiwei, Su Yongchao	Visualization analysis of research literature on early warning of geo- hazards based on meteorological factors in the past 20 years	
Nov 29, 14:45 - 15:00	185	Teruyuki Kikuchi, Koichi Hayashi	Using Long-Term Measurement to Enhance Regional Disaster Prevention through Monitoring of Small Rivers	
Nov 29, 15:00 - 15:15	29	Thanh-Nhan Nguyen, Ho-Hong-Duy Nguyen, Minh-Vuong Pham, and Yun-Tae Kim	Real-Time Monitoring of Slope Displacement Under Rainfall Using a Stereo-Vision System	
Nov 29, 15:15-15:30	73	Saba Karim, Farhad Hossain, and A.S.M. Woobaidullah	Empirical Correlation between Geophysical and Geotechnical Parameters of Pleistocene Madhupur	

Time	Abs. No.	Speaker/s	Title of the presentation
		Clay in Dhaka,	
		Bangladesh	
	115	Md. Mahibi Alom Mahim,	Urbanization-Driven Waterlogging in Coastal Bangladesh: A Case
Nov. 00, 45,00, 45,45		Md. Masidul Haque, Md.	Study of Narail Sadar Municipality Using Remote Sensing and
Nov 29, 15:30-15:45		Ishtiak Ahmed Rasel,	Hydrological Modeling
		Emam Hossain	
	236	Sunil Poudyal, Aastha	Debris flow impact mitigation using dual flexible barriers:
Nov 29, 15:45-16:00		Bhatta and Charles Wang	experimental and numerical study
		Wai Ng	
		Yanhui Liu, Pinggen	Two Decades of Meteorological Risk Early Warning for Geological
		Zhou, Ruihua Xiao,	Disasters in China and New Research Advances
Nov 29, 16:00-16:15	280	Chunli Chen, Yongchao	
		Su, Huiqing Wang, Zhiwei	
		Fang, and Yurou Li	
Nov. 00, 46,45, 46,00	000	Sanjeeb Pandey and Kabi	Rock Durability and Abrasion Characteristics: A Case Study of the
Nov 29, 16:15-16:30	226	Raj Paudyal	Nawakot Group in Bagmati Province
Nov 29, 16:30-16:35	Token of appreciation distributions to Chair and Rapporteurs		

16:30 – 17:30: Tea and coffee break

Day 3: Nov 29, 14:30 - 16:30 (Trishuli Hall)

Parallel Technical Sessions - 22:

WEG Interactive Workshop: Essential Skills for Career Advancement: Communication, Leadership and Negotiation.

Coordinators: Anjila Babu Malla and Mahmuda Khatun

Time	Speaker	Title of the Presenation	
Nov 29, 14:30 - 15:30	Ann Williams	Allyship	
Nov 29, 15:30 - 16:20	Nurun Nahar	Leadership and negotiation	
	Faruqa		
Nov 29, 16:20 – 16:30	Concluding Remarks: Anjila Babu Malla and Mahmuda Khatun		



Please provide your feedback by scanning this QR code after this session.

Nov 29, 16:30 – 17:30: Tea and coffee break

Nov 29, 17:00- 17:45 (Koshi Hall)

Ending Ceremony: Separate Program will be provided.

Nov 29, 17:45-18:30: Karnali Hall

Brief Introduction about Excursion - 5 Program, Kathmandu-Pokhara and Around Pokhara

Manita Timilsina and Sweata Sijapati

Nov 29, 17:45-18:30: Trishuli Hall

Brief Introduction about Excursion – 6 Program, Engineering Geology Insights: Exploring the Tea Farming Landscapes of Far-Eastern Nepal from Koshi River, Jhapa and Ilam

Shuichi Hasegawa and Praveen Upadhayaya Kandel

December 2, 2025, 9:00-17:00, Jahangirnagar University, Dhaka, Bangladesh

Technical Sessions and Closing Ceremony: Separate Program will be provided at Dhaka.











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