

The 11th Asian Regional Conference of IAEG

28–30 November 2017

Kathmandu, Nepal



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ARC-11
Nepal Geological Society



Lead Organizer

Nepal Geological Society



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Final Circular

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The 11th Asian Regional Conference of IAEG

on

“Engineering Geology for Geodisaster Management”

28–30 November 2017

Kathmandu, Nepal



Final Circular

(Released on 2017/11/15)

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1 Background

Engineering geology and geodisaster management are intimately linked with each other and it is a challenge to develop infrastructures without adversely impacting surrounding environment. The circumstances become even more complex if the region is frequented by large earthquakes, floods, debris flows, and landslides. Climate change, land use alterations, population growth, mass migration, and urbanisation are some of the pertinent issues to be dealt with by the engineering geologists of the twenty-first century.

Nepal is resplendently located at the heart of the 2400 km-long Himalayan arc and the country can be defined as the natural museum of every kind of geodisaster. In this regard, the Mw 7.8 Gorkha Earthquake of 25 April 2015 is the latest example. The tremor hit central Nepal and brought about 9000 deaths and many thousands of injuries. The total economic loss by the quake exceeded US\$ 6 billion. It is estimated that the reconstruction and recovery phase will last for more than 5 years. Now, Nepal is in the reconstruction phase and many engineering geological issues are not discussed well among the practitioners and researchers. It was noticed that bridging between practitioners and researchers for engineering geological evaluation is arduous and reconstruction activities have already started without proper understanding of engineering geological settings of the terrain.

The Nepal Geological Society was founded in 1980, and since then it has organised various national and international workshops, symposia, and conferences. It conducts geological congress regularly and the recent one was the Eighth Nepal Geological Congress held during 27-29 November 2016 in Kathmandu. The Society has also successfully conducted the Himalaya–Karakoram–Tibet Workshops.

For last 50 years, the International Association for Engineering Geology and Environment (IAEG) has been bringing together all engineering geological professionals and researchers into a single forum through various regional and international conferences. Such congregations are serving excellently not only to enhance the skills and knowledge of engineering geology, but to promote as well many national groups around the globe. The Nepal Geological Society also has a long history of affiliation with the IAEG and is assisting it by conducting various conferences and meetings, including the IAEG international symposium in 1999 and IAEG conference in 2005. The 1999 and 2005 events were attended by 419 and 209 geoscientists from 34 and 22 countries, respectively.

2 IAEG ARC-11

With the above background of successfully conducting many national and international gatherings, the Nepal Geological Society, along with its partner organisations in Nepal, is going to organize the Eleventh IAEG Asian Regional Conference (ARC-11) in Kathmandu, Nepal, on 28–30 November 2017. Apart from the conference, there will be five field excursions in various parts of the country to give first-hand information to the delegates of the engineering geological challenges in the Himalayan region.



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Though such international meetings have been instrumental to the advancement of engineering geology in Asia, geoscientists and engineers around the globe have contributed and also benefited from such Asian Regional Conferences of IAEG. Hence, we are confident that the forthcoming event is going to be yet another building block to enhance the geo-engineering knowledge and to understand further the engineering geology in this part of the globe. This is the third time that an IAEG conference is going to be held in Nepal - a popular destination for geo-scientists and tourists. The conference will be an opportunity to all geoscientists and engineers for congenial discussions and sharing of new research findings in the field of engineering geology and geodisasters.

After the circulation of the First Circular on ARC-11, the Nepal Geological Society has received an overwhelming response from geoscientists around the globe. Hence, this event will certainly be another milestone in the history of Asian Regional Conference.

3 Venue

The IAEG ARC-11 will take place in Kathmandu, an important historic city and the capital of Nepal. With an estimated population of about four million, Kathmandu is the largest metropolis in Nepal. Lalitpur and Bhaktapur are neighboring cities of Kathmandu, and all of them are located within the Kathmandu Valley. The Kathmandu Valley has historically important cultural monuments that attract millions of international and domestic tourists every year. At an average altitude of 1300 m, the Kathmandu Valley is filled up with ancient lake sediments that at their deepest point are about 550 m thick. All the major events of IAEG ARC-11 will be held in Kathmandu, while the field excursions will be held in various parts of the Nepal.

4 Number of participants

Till 18th November 2017, the 215 foreign participants around the world, have been registered in the program. In total, 248 abstracts are submitted to the conference. Participating countries in the conference are Australia (3), Austria (1), Bangladesh (5), Bhutan (5), Bulgaria (1), Canada (1), China (59), France (7), Germany (1), Greece (3), Hongkong (1), India (15), Indonesia (7), Italy (4), Japan (46), Malaysia (5), New Zealand (3), Norway (1), Philippines (2), Portugal (1), Russia (15), Singapore (2), South Africa (1), South Korea (6), Taiwan (17), Turkey (3), United Kingdom (4), United States of America (3) and Nepal (89).

5 Conference excursions

To provide an opportunity particularly to all international participants, the conference program has been planned to include four field programs as follows.

Pre-conference tour





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Ex-1: Geomorphological and Geological observation of World Heritage sites in Kathmandu Valley

This excursion will be held in 2017/11/27, one day before main conference. All registered participants can pay on site for this conference from 26th November 16, 2017 at registration desk at Hotel Yak and Yeti. More than 120 participants already registered in this excursion.

Detail program of this excursion is as follow.

7:00 – Breakfast at hotel

7:30 – Departure from Yak and Yeti Hotel to Changunarayan site

8:30 – Arrival at Changunarayan Hill

8:30-9:00 AM– **Stop 1:** Observation of geomorphological settings of the northern part of Kathmandu Valley

9:00-9:15 – Arrival at Changunarayan Temple

9:15-9:45 – **Stop 2:** Observation inside Changunarayan Temple

9:45-10:00 – Arrive at Changunarayan bus stand

10:00 – Depart to Bhaktapur city

10:30 – **Stop 3:** Arrive at Bhaktapur area

10:30-11:00 – Observation at Dattatraya Square

11:00-11:30 – Arrive at Taumadhi Square

11:30-12:30 – Typical Nepali style lunch at Bhaktapur Darbar Square area

12:30-13:30 – Observation at Taumadhi Square and Durbar Square

13:30-13:45 – Arrive at Bhaktapur bus stand

13:45 – Depart to Pashupatinath

14:25 – Arrive at Pashupatinath bus stand

14:25 -14:35– **Stop 4:** Arrive at Pashupatinath premises

14:35-15:00– Observation at Pashupatinath premises

15:00-15:10– Arrive at Pashupatinath bus stand

15:10– Depart to Swayambhunath

16:00– **Stop 5:** Arrive at Swayambhunath premises

16:00-16:10– Arrive at Swayambhunath Stupa

16:10-17:00– Observation of geomorphological settings of the northern and southern part of Kathmandu Valley and Swayambhunath Stupa

17:00-17:10– Arrive at Swayambhunath bus stand

17:10– Depart to Yak and Yeti Hotel

17:40– Arrive at Yak and Yeti Hotel

End of Excursion!!!

Excursion coordinator: **Dr. Ananta Gajurel**

Excursion Fee: **US\$85.00**

(*includes all entrance fee, transportation and lunch)



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Kathmandu - city of temples and World Heritages



Kathmandu City

World Heritage site, Kathmandu city

Post-conference excursions

Ex-2: Kathmandu-Pokhara roadside slope protection work and Pokhara Valley tour (three-day)

Excursion two (Ex-2) is basically a field excursion tour on the first day and partly on second day. Kathmandu-Pokhara roadway is about 200 km, but in Nepal it takes about six hours to travel this distance at an average speed of 40 km/h. So, on the first day, we will see a few geodisaster sites on the way to Pokhara, and on the second day, we will go to an area in Pokhara valley and observe geology of the Pokhara valley. In Pokhara, especially in the morning time, we can see marvelous panoramic view of the Annapurna Range of the Himalaya, and also take a pleasure flight on an ultralight plane for 30 minutes to one hour. You may stay longer in Pokhara if you wish, but you will have to notify us of your plan so that we can book your return air ticket to Kathmandu appropriately.

Early morning after having breakfast in hotel, all the participants will be picked up from Hotel Yak and Yeti. Detail schedule of the excursion is given below:

Day 1, Dec.1 (Fri): Kathmandu to Pokhara via Prithivi Highway

7:30 Departure from Hotel Yak & Yeti





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9:00 Site 2-1: Naubise –Thankot road tunnel project (Stop 1)

- Topography and geology of Thankot, west end of the Kathmandu Valley
- Naubise –Thankot road tunnel project
- Tunnel portal observation

10:00-10:30 Site 2-2: Galchhi (Stop 2)

- High-grade metamorphic rocks along the Main Central Thrust (MCT)
- Plain failure and Topping and mica-schists
- Topography the Trisuli River and its terrace
- Debris flow fan and its deposits due to 1993 disaster.
- Origin of small valley and bridge site selection

11:00-12:00 Site 2-3: Aadamghat (Stop 3) at Gasoline station

- Terrace deposits of the Trisuli River
- Landslide scraps on the northern mountain slope
- Landslide topography of the southern mountain slope

12:30 Site 2-4: Krishnabhir (Stop 4)

- Rainfall-induced landslide on August 2000.
- Toppling on large-scale landslide topography on the foot of southern mountain slope
- Low-cost countermeasure by using bio-engineering and water management

13:15-14:00 Site 2-5: Riverside Spring Resort (Stop 5 Lunch)

- Terrace and riverbed sediments of the Trisuli River

14:10-14:40 Site 2-6: Slow moving creep (Stop 6)

- Observations of slow moving creeps
- Evaluation of damages on road and maintenance of pavement

15:00-15:15 Site 2-7: Ruwa Khola check-dam site (brief observation only)

- Japanese type Sabo Dam in Nepal
- Check dam performance

15:30-16:00 Site 2-8: Landslide dam site (Stop 7)

- Landslide occurred after the 2015 Gorkha Earthquake
- Fractured and disturbed quartzites of large-scale landslide
- Pleistocene landslide dam and paleo-lake originated terrace distributed upstream from the site

17:45 Arrival hotels at lakeside, Pokhara

- Check in & dinner as you like

Day 2, Dec 2 (Sat): Pokhara Valley

7:30 Departure from hotels

8:00-8:30 Site 2-9: Sarangkot (Stop 8)

- Topography of the Annapurna Range and the Seti River terrace disturbed quartzites of large-scale landslide
- Huge glacier lake outburst foods during the retrogression of Annapurna glacier in postglacial age
- Paleo-lake due to huge glacier lake outburst foods (debris flow) deposits





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- Landslide topography and deposits of Sarangkhot

9:30-10:00 Site 2-10: Armala (Stop 9)

- Topography of the Kali Khola valley
- Sediments of the paleo-lake dammed by huge glacier lake outburst debris flow deposits
- Occurrence and property of fine silty clay in lake deposits
- Occurrence and mechanism of sinkholes

11:00-11:30 Site 2-11: Ramghat (Stop 10)

- Topography of the Seti River and terrace
- Occurrence and property of the Pokhara Gravel
- Topographic change due to flood of the Seti River

12:00-13:30 Site 2-12: Lakeside of the Phewa lake (Stop 11, lunch)

- Topography of the Seti River Gorge and terrace
- Occurrence and property of the Pokhara Gravel
- Topographic change due to flood of the Seti River

14:00 Site 2-13 Stopover at Pokhara Airport

14:30-15:00 Site 5-15: Davis fall (Patale Chhango)

- Topography of the Pardi Khola Gorge and Davis Fall
- Occurrence of the Pokhara Gravel

15:00-15:30 Site 5-16: Gupteshwar Cave (Stop12)

- Sink hole topography of Gupteshwar Cave
- Groundwater in Gupteshwar Cave and Davis Fall
- What is the Shiva statue?

16:00 Arrival at lakeside and free time to have walk around lakeside and have your favorite dinner of your own choice!

Day 3 (Sunday): Departure from Pokhara

8:00 AM Breakfast at hotel and free time for shopping

9:30 AM onwards, return by road in same bus and drop in Hotel Yak and Yeti or return by air to Kathmandu (optional, need extra US\$ 122.00, contact Travel Agent for air ticket)

Excursion coordinator: **Dr. Ranjan Kumar Dahal**

Supporting Colleague: Ms. Chandani Bhandari

Excursion Fee: **US\$320**

(*includes all entrance fee, transportation, 2-night hotel accommodation, 3 breakfasts and 2 lunches. Minimum number of participants required for this tour is 12 persons)



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Please note: The fee does not include airfare from Pokhara to Kathmandu & dinner. Extra cost for airfare from Pokhara to Kathmandu is US\$ 122.00 for foreign participants. Participants can contact official travel agents for detail of booking of air tickets from Pokhara to Kathmandu.



Pokhara - city of lakes and mountains

Ex-3: The 2015 Gorkha Earthquake Epicenter area visit (two-day)

Two-day long excursion is planned to observe earthquake-induced geohazards, damages and recovery in the 2015 Gorkha Earthquake Epicenter area. A total of 25 participants are registered for this excursion. Detail program of the excursion is given below.

Day 1: 01 December 2017

07:00 AM: Depart from Hotel Yak & Yeti (conference venue): participants need to have their breakfast at respective hotel(s) before 07:00 hours.

Stops	Location	Purpose of Stop	Arrival time	Departure Time
STOP 1: Kundur, Gorkha	Ch. 10.00 km at the Khaireni-Gorkha Road section (Ch. 128.00 km from Kathmandu-Gorkha Highway)	Observation of wide, Daraundi River valley in the north and high hills of Mahabharat range and narrow river gorge in the south.	11:00	11:10
STOP 2: Kundur, Gorkha	Ch. 11.50 km at the Khaireni-Gorkha Road section (Ch. 129.50 km from Kathmandu-Gorkha Highway)	Observation of wide Daraundi River valley in the north and high hills of the Mahabharat range in the south.	11:15	11:25
STOP 3: Bisauni	Ch. 24.00 km from the town of Khaireni (Ch. 142.00 km from	Lunch hour (Nepali foods will be served)	11:40	12:20

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Hotel, Gorkha	Kathmandu-Gorkha Highway)			
Observation of the Gorkha town and the historical king palace at Gorkha			12:20-13:00	
STOP 4, STOP 5: Dhodeni, Gorkha	About 33 km north from Gorkha town (Gorkha-Chhepetar-Arkul-Dhodeni) along a gravel road in Daraundi valley (Alt. ~ 660 m)	Observation of siltation in hydropower dam site, paleo GLOF deposits and earthquake-induced landslides in the mountain slopes	15:30	15:45
*Arrival at Barpak village (Alt. 1950 m)	About 15 km up hill drive along a very rough, narrow earthen road (Alt. gain from the previous stop is ~1300 m)	Overnight stay in local hotels	17:30	

Note:

The arrival and departure time mentioned above subject to change depending on the traffic conditions on the Highway. The times indicated above is applicable only when there is no traffic jam. Sometimes, it could be several hours late. The initial 10:00 km of the last 15:00 km stretch of the road before arriving Barpak is narrow and bumpy. We use jeep (4WD) with capacity to accommodate 7 persons.

As Barpak was completely devastated by the 2015 Gorkha earthquake and reconstruction is yet to be completed, best accommodation is not available in the town and compromise should be made in simple, shared rooms. Hotels in Barpak will serve Nepali foods in the dinner. Early December in this part of Gorkha is usually cold and frosty and excursion participants are suggested to bring warm clothes.

Day 2: 02 December 2017

7:00 - 09:00: Breakfast and free time to enjoy mountain views, tour around the village, and observe reconstruction works.

09:00 - 11:00: Observation of earthquake induced landslides and damages in and around Barpak at few sites. Return trip starts at 11:00 and a Nepali style lunch will be served on the way back in 'River Side Restaurant' at Pokhara-Kathmandu Highway around 14:00.

20:00: Arrival at Hotel Yak and Yeti, Kathmandu*.

Note:

*The arrival time subject to change depending on the traffic conditions on the road.

Excursion coordinator: Dr. Danda Pani Adhikari

Supporting Colleague: Mr. Bala Ram Upadhyaya

*Excursion Fee: **US\$275.00**



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*(*includes all entrance fees, transportation, 1 night hotel accommodation, 1 breakfast, 1 dinner and 2 lunches; 25 participants are registered for this excursion and registration is closed.)*

Ex-4: Arniko Highway – China Border and observation of landslides, floods and slope protection works (two-day)

Excursion four (Ex-4) is two-day tour to China Border at north-east of Kathmandu. This excursion will give an excellent chance to observe low-cost road side slope mitigation works, earthquake induced landslide, recent landslide dam, earthquake damaged towns, Nepal-China Border, tunneling works in Nepalese hydropower projects and rock fall mitigation works. The excursion team will stay at typical resort situated at left bank of the Bhotekoshi River. The resort has bungee jumping facility also for those who want adventurous trip in the Himalayan river valley.

Day 1

2017/12/01, 8:00 AM: Depart from the conference venue hotel (Hotel Yak & Yeti)

2017/12/01, 9:30 AM: Arrival at Dhulikhel, Khawa and observation of road side slope protection work in a landslide zone.

2017/12/01, 11:00 AM: Arrive at the Jure landslide area and spend some 1.5 hours in observational survey.

2017/12/01, 12:30 PM: Lunch time and it will be served in packets.

2017/12/01, 2:30 PM: Arrival at Middle Bhotekoshi Hydropower Project and Observation of tunnel and powerhouse sites

2017/12/01, 5:30 Arrive at The Last Resort, night stay in tents.

Day 2

2017/12/02, 9:00 Arrival at Friendship Bridge of Nepal-China Border

2017/12/02, 10:00 to 11:30 AM: Observation of earthquake and flash flood related damages.

2017/12/02, 12:00 AM: Arrival at Upper Bhotekoshi Hydropower Project and observation of Rockfall protection works.

2017/12/02, 1:00 PM: Lunch at The Last Resort.

2017/12/02, 4:00 PM: Arrival at Dhulikhel Resort and Observation of Midland topography and Himalaya panorama



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2017/12/02, 7:00 PM: Arrive back at Hotel Yak & Yeti

Excursion coordinator: Mr. Lila Nath Rimal

Supporting Colleague:

Excursion Fee: **US\$250.00**

(*includes all entrance fees, transportation, 1-night resort accommodation in shared tent, 1 breakfast, 1 dinner, 2 lunches, in total 12 participants have been registered in this excursion)

Ex-5: Japan Society of Engineering Geology (JSEG) Special Excursion (three days) - Gorkha and Pokhara area including Kathmandu-Pokhara roadside slope mitigation

Japan Society of Engineering Geology (JSEG) is organizing a special excursion and it is excursion five (Ex-5). This excursion is planned as per the special arrangement of JSEG and the organizing committee of ARC-11 is very happy to support JSEG to manage the excursion.

This excursion will be operated both English and Japanese and all participants are welcomed to participate. This excursion includes merged programs of Ex-3 and Ex-4. Tentative Schedule of Ex-5 for ARC-11 is given below.

Purpose of excursion

- 1) To observe geomorphological and engineering geological characteristics of the Midland in the Himalayan Range.
- 2) To observe the damages in the Midland due to the 2015 Gorkha Earthquake and to consider reasons of very few occurrence of earthquake-triggered landslides in the Midland.
- 3) To consider the effect of the 2015 Gorkha Earthquake to building on the Kathmandu valley.
- 4) To observe geomorphological and engineering geological characteristics of the Pokhara Valley in front of the Annapurna Range.
- 5) To observe the geo-disasters in the Pokhara Valley and to consider relation between geo-disasters and beautiful landscapes
- 6) To consider the origin of Midland and effect on not only land use and disasters, but also evolution of the Himalayas.
- 7) To consider sustainable development of Nepal based on the concept of geo-park.

Day 1

Dec.1, 2017 (Fri): Kathmandu to Pokhara via the Prithivi Highway



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7:30 Departure from Hotel Yak & Yeti

9:00 Site 5-1: Thankot (Observation from bus)

- Topography and geology of Thankot, west end of the Kathmandu Valley
- Origin of Thankot Hill and Kathmandu valley
- Naubise –Thankot road tunnel project

10:00-10:30 Site 5-2: Galchhi (**Stop1**)

- High-grade metamorphic rocks along the Main Central Thrust (MCT)
- Plain failure and Topping and mica-schists
- Topography the Trisuli River and its terrace
- Debris flow fan and its deposits due to 1993 disaster.
- Origin of small valley and bridge

11:00-12:00 Site 5-3: Aadamghat (**Stop2**) @ Gasoline station.

- Terrace deposits of the Trisuli River
- Landslide scraps on the northern mountain slope
- Landslide topography of the southern mountain slope

12:30 Site 5-4: Krishnabhir (Observation from bus)

- Rainfall-induced landslide.
- Toppling on large-scale landslide topography on the foot of southern mountain slope
- Low-cost countermeasure by using bio-engineering and drainage management

13:00-14:00 Site 5-5: Riverside Spring Resort (**Stop3 Lunch**)

- Terrace and riverbed sediments of the Trisuli River

14:20 Site 5-6: Ruwa Khola check-dam site (Observation from bus)

- Terrace and riverbed sediments of the Trisuli River

14:30-15:00 Site 5-7: Landslide dam site (**Stop 4**)

- Landslide occurred after the Gorkha earthquake
- Fractured and disturbed quartzites of large-scale landslide
- Pleistocene landslide dam and paleo-lake originated terrace distributed upstream from the site

15:30-15:40 Site 5-8: Ridge 3 km before arriving Gorkha Town (**Stop 5**)

- Gorkha Town on huge landslide



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15:50-16:20 Site 5-9: Gorkha Town (**Stop 6**)

- Epicenter area of the Gorkha earthquake
- Slight damage of Gorkha town

18:30 Arrival hotels at lakeside, Pokhara

- Check in & dinner as you like

Day 2

Dec.2, 2017 (Sat): Pokhara Valley

7:30 Departure from hotels

8:00-8:30 Site 5-10: Sarangkot (**Stop7**)

- Topography of the Annapurna Range and the Seti River terrace, fractured quartzites of large-scale landslide
- Huge glacier lake outburst foods during the retrogression of Annapurna glacier in postglacial age
- Paleo-lake due to huge glacier lake outburst foods (debris flow) deposits
- Landslide topography and deposits of Sarangkot

9:30-10:00 Site 5-11: Armala (**Stop 8**)

- Topography of the Kali Khola valley
- Sediments of the pleo-lake dammed by huge glacier lake outburst debris flow deposits
- Occurrence and property of fine silty clay in lake deposits
- Occurrence and mechanism of sikhholes

11:00-11:30 Site 5-12: Ramghat (**Stop 9**)

- Topography of the Seti River and terrace
- Occurrence and property of the Pokhara Gravel
- Topographic change due to flood of the Seti River

12:00-13:30 Site 5-13: Lakeside of the Phewa lake (**Stop10, Lunch**)

14:00 Site 5-14: Stopover at Pokhara Airport (**Stop 11**)

14:30-15:00 Site 5-15: Davis fall (Patale Chhango) (**Stop 12**)

- Topography of the Pardi Khola Gorge and Davis Fall



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- Occurrence of the Pokhara Gravel

15:00-15:30 Site 5-16: Gupteswar Cave (**Stop 12**)

- Sink hole topography of Gupteswar Cave
- Groundwater in Gupteswar Cave and Davis Fall
- What is the Siva statue?

16:00 Arrival at lakeside and end of the Excursion 5

Day 3

Dec. 3, 2017 8:00 Departure from hotel

9:00-12:00 Return by road in same bus and drop in Hotel Yak and Yeti in Kathmandu or return by air to Kathmandu (optional, need extra US\$ 122.00)

17:00 Arrive back at Hotel Yak & Yeti and free time for shopping or participant can catch their flights back to their countries.

Excursion coordinator: Prof. Dr. Shuichi Hasegawa

Supporting colleagues: Mr. Om Pradhan

Excursion Fee: **US\$340.00**

(*includes all entrance fees, transportation, 2-night hotel accommodation, 3 breakfasts, 2 lunches. Already 39 participants registered for this excursion).

Please note: The fee does not include airfare from Pokhara to Kathmandu & dinner. Extra cost for airfare from Pokhara to Kathmandu is **US\$ 122.00** for foreign participants. Participants can contact official travel agents for detail of booking of air tickets from Pokhara to Kathmandu.

6 Conference Plan

Following the past formats of the IAEG ARC, thematic oral and poster sessions have been planned within a single venue. Parallel sessions will be provided for various sub-themes in order to provide all participants an opportunity to present from all presentations.

Detail Conference plan is already published. The conference will have plenary keynote sessions and will have four parallel technical sessions each day and two poster sessions. Keynote presentations will be 30 min. Oral Presentation is of 12 mins and 3 mins of questions and answers. Poster size



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is A0 (portrait) size. Detail program can be found in the in www.iaegarclings.com/pdf/arcpro.pdf. The five halls (Regal-1, Regal-2, Dynasty, Regency, Crystal) of Hotel Yak and Yeti will be used for the parallel technical sessions, poster sessions and exhibition. There will be about 10 exhibitions from various agencies and organizations. Regal -2 hall will have exhibitions and poster session.

7 Special lectures

The organizing committee has requested to Prof. Dr. Martin G. Culshaw for a special short course on “**How to write scientific paper?**” during the conference. We feel very honored that he has agreed on our request. He will deliver max 1.5 h lecture on the topic followed by Q and A session of 30 min. This course will be conducted during the 2nd day of conference (November 29th). The venue hall is Regal 1 and the lectures will start from 16:15 hours. Three special presentations are also there in 29th November.

8 Registration fee payment

All interested participant can pay registration fee on site or online at this moment. The registration fee is given below. On site payment by credit card is possible. But the organizing committee prefer to have cash payment either in US\$ or NRs. Other currencies are also acceptable, but it will be equivalent with US\$ only.

Category	Timeline		
	Until July 15, 2017, "Early Bird"	July 15 to October 15, 2017	After October 15, 2017
Foreign participants	US\$ 450	US \$ 500	US\$ 550
Accompanying persons of foreign participants	US\$ 250	US \$ 300	US\$ 350
Foreign students	US\$ 225	US \$ 250	US\$ 275
Participants from SAARC nations	US\$ 250	US \$ 300	US\$ 350
Accompanying persons of participants from SAARC nations	US\$ 175	US \$ 200	US \$ 225

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Students from SAARC nations	US\$ 125	US\$ 150	US\$ 175
Participations from international organizations based in Nepal	US\$ 250	US\$ 300	US\$ 350
NGS Members and Nepalese Paper Presenters	NPR 7000		
Non-NGS Members	NPR 10,500		

Excursion fees:

- Ex-1: Around Kathmandu Valley – US\$ 85.00
- Ex-2: Kathmandu-Pokhara - US\$ 320.00
- Ex-3: The 2015 Gorkha Earthquake Epicenter - US\$ 275.00
- Ex-4: Arniko Highway –China Border - US\$ 250.00
- Ex-5: Japan Society of Engineering Geology (JSEG) Special Excursion - US\$ 340.00

9 Conference theme and sub-themes

Total 23 themes were announced before but abstracts were obtained only for 18 themes. Out of them, 91 abstracts were on the theme engineering geology of landslides. Rest were on the other themes. Total 250 abstracts were submitted. Details of abstract are found in www.iaegarc1ngs.com/pdf/arcpro.pdf.

10 Climate

Climate in Kathmandu at the end of November is pleasant. Mornings and evenings are often cold, but the day time is pleasantly warm. It is advised that the participants bring warm clothes.

11 Passport and Visa Requirement

All the foreign participants are advised to contact the Nepalese Embassy or Consulate in their respective countries to get visa for entering into Nepal. They must have valid passport and Visa to enter into Nepal. Visa can also be obtained in the Tribhuvan International Airport (Kathmandu) on arrival. For those of you planning to acquire a visa upon arrival at the airport, please bring with you one passport-sized photographs and US\$ 25 cash for the visa fee. Gratis Visa is available for SAARC nationals visiting Nepal since 2014. We request you to claim Gratis Visa if it is applicable to you.



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For the visa application, the following information and items are necessary.

- Passport valid at least for six months
- A pp-size photograph
- Visa application fee of 25 US dollars (for 15 days)
- Permanent residence address
- Address while staying in Nepal (Hotel name and telephone number)

Nationals of Nigeria, Ghana, Zimbabwe, Swaziland, Cameroon, Somalia, Liberia, Ethiopia, Iraq, Afghanistan and Palestine are not entitled to get visa on arrival, so they may apply for the visa at the nearest Nepalese diplomatic mission in their countries. For further details, please visit Department of Immigration, Nepal.

12 Airport arrival

Tribhuvan International Airport at Kathmandu is the only one international airport of Nepal. This is a medium sized airport and one of the busiest airports. Airport Taxi is the only one city transport system available in the Airport. After arrival and finishing procedures of immigration and baggage claim, Airport Taxi counter is available. They have fixed rate as per the location of the hotel. If you are staying in the venue Hotel Yak and Yeti, the hotel staffs will be in the service with ARC-11 of IAEG banner just outside of Arrival Gate of the Kathmandu Airport. Meantime, official travel agent will be also there with ARC-11 of IAEG banner. They will provide necessary for taxis.

13 Mobile (Cell) phone service in Nepal

Telephonic communication from Nepal to all foreign nations is comparatively inexpensive. Two companies, Nepal Telecom and Ncell, provide mobile and roaming service in Nepal. Temporary pre-paid type SIM card from either of these two companies can be purchased on arrival at Tribhuvan International Airport. The purchase counter is located on the passage way when you come out after collecting your baggage and before you exit the terminal building. You need a copy of your passport and passport size photograph to get the SIM card. For details, please visit the homepage of Nepal Telecom (<http://www.ntc.net.np/>) or Ncell (<http://www.ncell.com.np/>). These companies provide 4G internet service in mobile phone or through phone to computer, if your mobile set has 3G or 4G modem facilities.

14 Currency

US Dollar, Canadian Dollar, British Pound, Euro, Australian Dollar, Japanese Yen, Singapore Dollar, Indian Rupee, and Chinese Yuan can be exchanged in the banks, star hotels, and authorized money changers. As of November 15, 2017, US\$ 1 is equivalent to NRs 104.50 and, it may subject to change.

15 Weather

Climate in Kathmandu and Pokhara in the end of November is pleasant but slightly cold. Mornings and evenings are often cold, but the day time is pleasantly warm. It is advised that the participants bring warm clothes.



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16 Nepalese participants

All Nepalese participants are requested to contact the organizers at info@iaegarc11.com and rkdahal@gmail.com or visit the 11th IAEG Asian Regional Conference (ARC-11) Secretariat for details on the registration procedure. Registration for Nepali participants is also available through home page of the Conference website.

17 Organizers

Lead organizer: Nepal Geological Society

Sponsor: International Association for Engineering Geology and the Environment

Associated partners

Department of Mines and Geology, Government of Nepal

Nepal Academy of Science and Technology

Department of Irrigation, Government of Nepal

Tribhuvan University, Central Department of Geology, Geodisaster Research Centre

Department of Geology, Tri-Chandra Campus

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Himalayan Landslide Society

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International Consortium on Geo-disaster Reduction (ICGdR)

Center for Disaster Management Informatics Research, Ehime University

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Dr. Ngdishi Asih, Gadjah Mada University, Indonesia
Dr. Abd Rasid Jaapar, Society for Engineering Geology and Rock Mechanics, Malaysia (SEGRM)

18 The Venue Hotel - Hotel Yak and Yeti



All presentation session will be held in Yak and Yeti Hotel situated at city center. Hotel Yak and Yeti, is a luxury 5-star deluxe hotel in the heart of Kathmandu, Nepal. Modern day sophistication greets cultural heritage in the ample grounds of the 100-year-old palace and newly designed structure of the hotel. Find refuge among antique fountains, gilded temples and emerald gardens as you remain just moments away from all the shops and adventure of the Kathmandu city, located at Durbar Marg. A 120-room hotel with 5 star amenities started its operation in 1st September, 1977. After a successful run of 12 years, the need was felt to enhance the hotel's size and facilities. Now an extension of 150 deluxe rooms and suites have been built (designed to harmonize with the special features of the Lal Durbar) to supplement the existing accommodation, bringing the total number of rooms available in the hotel to 270 rooms.

19 Conference Sponsors:



Ministry of Irrigation



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Mines and Geology





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Trumer Schutzbauten-Geotech Solutions International (**Trumer-GSI**) is Silver Sponsor of ARC-11.



20 Official Travel Agents

Travel & Events Nepal is official travel and event organiser of ARC-11. It will provide all kind travel and hotel booking supports to our participants. You can have direct write to CEO. Please mention "ARC-11" in the email subject. Visit their web for more information and support to make your Nepal visit more adventurous and fruitful.

Mr. Ram Narayan Uprety

CEO

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For Yak and Yeti Hotel reservation:

Ms. Shital Baniya

Senior sales manager

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Special discount is available for ARC-11 participants.

21 Contact address

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