



### Message from the President

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It is my pleasure to write for this third issue of NEA-JC Newsletter. I want to thank the Publication Committee for its great effort in materializing this issue. I would also like to thank all our engineer colleagues for their continued support to NEA-JC and its activities.

NEA-JC is currently being run by 3rd executive committee. A few years is not a long time for an organization to get itself well established. We are still on the establishment phase but we can say safely that NEA-JC has found its direction after these few years' effort from all of our members. We are organizing the 2nd NEA-JC Workshop in Tokyo on 12th of October this year. This event will continue each year as one of the main NEA-JC events. We also started celebrating Engineers' day, the day on which NEA was established, from this year. A talk program was organized in Kyoto University and we hope that NEA-JC can celebrate it more creatively in the coming years.

Recently, we also had a meeting with a team from Japanese Society of Civil Engineers (JSCE) to explore the possibility for cooperation between JSCE and NEA-JC (NEA). We plan to extend our relationship to other professional organizations too.

NEA-JC is a common platform of all the Nepalese engineers in Japan. We want to include other non-engineer technologist friends too in its activities and discussions. I hope NEA-JC Newsletter will be a helpful medium for such cooperation.

I sincerely hope that we will continuously get your valuable comments and suggestions to improve the NEA-JC newsletter as well as all other NEA-JC activities.

Basanta Kumar Gautam  
President, NEA-JC

### Message from the Publication Committee

This first issue of NEA – JC 2008 newsletter has compiled several pertinent issues related to engineers and researchers working in Japan currently. Our intention is to share current events, achievements and ongoing activities of Nepali engineers and NEA-JC 2008. We hope this small effort would be appreciated and moreover the dissemination of information would keep us more closer. This newsletter attempts to be a platform for information and knowledge sharing among NEA-JC members.

Dear friends, please forgive us for any mistakes inside this issue and the publication committee takes full responsibility for such errors which are of course not intentional. Lastly, we wish to get your comment and feedback to further refine the later issues as this is not an end in itself, it is just a beginning.

- Publication committee, NEA-JC, 2008



## NEA-JC, Third Executive Committee

### President



**Er. (Dr.) Basanta Kumar Gautam** is from Purano Naikap-8, Kathmandu. He obtained his Ph.D. from Chubu University in March, 2007 with "Contamination Flashover Voltage Performance of Hydrophobic Polymer Insulators" as his research topic. He served as the Treasurer of the first executive committee and Vice-President of the second executive committee of NEA-JC. He is a member of The Institute of Electrical Engineers of Japan (IEEJ) and The Institute of Electrical and Electronics Engineers (IEEE). He is currently affiliated with Private Limited STEM. He can be reached at [basantakg@yahoo.com](mailto:basantakg@yahoo.com).

### Vice-President



**Er. (Dr.) Ved Prasad Kafle** is from Sunsari. He obtained a PhD in Informatics from The Graduate University for Advanced Studies, Japan, an MS in Computer Science and Engineering from Seoul National University, South Korea, and a BE in Electronics and Communications from Punjab Engineering College, India. Currently, he has been working at the National Institute of Information and Communications Technology (NICT), Tokyo as a researcher, where he is designing new generations of network architectures and protocols. In NEA-JC, he has been serving as Coordinator of the Web Page Management Committee (WPMC) for last two years. In addition to NEA, he is actively associated with other professional organizations like IEEE, IEICE, ACM. He can be reached at [kafleinjapan@yahoo.com](mailto:kafleinjapan@yahoo.com).

### Secretary



**Er. Netra Gyawali** received BE degree in electrical engineering from IOE, Tribhuvan University Nepal in 1999. Since 2000, he is involved in the academic career in the department of electrical engineering (Pulchowk Campus), Nepal. In 2008, he passed M.Sc in electrical engineering from Kyoto University and currently pursuing the research/study in Kyoto University towards PHD degree. His research area includes power system dynamics, control of distributed resources, and operation and management aspects of microgrid.  
email : [netra\\_002@yahoo.com](mailto:netra_002@yahoo.com).

### Treasurer



Er. Madhusudan Kayastha completed his B.E. in Electronics and Communication Engineering from Pokhara University, Nepal and M.E. in Optical Fiber Communication from Chubu University, Japan. He is currently pursuing Ph.D. at Chubu University. Er. Kayastha is a member of The Institute of Electrical and Electronics Engineers(IEEE) and The Japan Society of Applied Physics(JSAP). He can be reached at [inocentmadhu@yahoo.com](mailto:inocentmadhu@yahoo.com).

### Member



**(Dr.)Akhilesh Kumar Karna** completed his B.E. in Civil Engineering from Institute of Engineering, Tribhuvan University, Nepal. He had worked as an Engineer for Department of Roads, HMG Nepal. He did Masters and PhD from Tokyo University of Agriculture and Technology, Japan. The subject of his research was related to groundwater flow in fracture zone landslides. While under HMG Nepal he had worked with the then DPTC (Water Induced Disaster Prevention Technical Center) where he was involved mainly with landslide disasters. He is currently working in the Nippon Koei Japan involved mainly in disaster and information related jobs. Er. Karna can be reached at [akhileshkk@gmail.com](mailto:akhileshkk@gmail.com)

### Member



**Er. Bhoj Raj Pantha** has completed his B. E. in Civil Engineering from Institute of Engineering, Tribhuvan University, Nepal and Master of Engineering from Saitama University, Japan. Er. Pantha is currently pursuing Ph.D at Ehime University, Japan majoring highway alignment optimization incorporating slope disaster risk management. His research interest are transport planning, highway alignment optimization, highway maintenance, landslide and slope failures, application of GIS, etc. Er. Pantha can be reached at [panthabhoj@gmail.com](mailto:panthabhoj@gmail.com).

### Member



**Ar. Roshan Bhakta Bhandari** has completed his B. Arch. and M.SC. in urban planning from Institute of Engineering, Tribhuvan University, Nepal. Currently, he is pursuing Ph.D at Disaster Prevention Research Institute (DPRI), Kyoto University, Japan. His research area in Ph.D is the use of adaptive management in a built environment for spatial risk reduction investigating on human–environment interaction with a focus on social spaces. Er. Bhandari worked as a lecturer at department of Architectural Engineering, IOE, Pulchowk Campus. He can be reached at [bhandari\\_roshan@yahoo.com](mailto:bhandari_roshan@yahoo.com).



## Congratulatory Notes

To us, all Nepalese people, for Federal Democratic Republic structuring of the nation and a step towards peace. We wish the new change brings sustainable peace and economic prosperity in our country.

- NEA JC 3<sup>rd</sup> executive committee 2008

### Awards/Achievements



**Er. Dr. Ripendra Awal** has been awarded a prestigious JSCE Award for his outstanding research entitled *An integrated approach to predict outflow hydrograph due to landslide dam failure by overtopping and sliding*. The paper was selected from 237 papers (206 Japanese paper and 31 English paper) published in Annual Journal of Hydraulic Engineering in 2008. Probably, this is the first time Japan Society of Civil Engineers (JSCE) awarded this prize to student and foreign researcher. Most of the previous award winners are the Japanese faculty members of reputed universities. Er. Awal has recently completed his PhD from Kyoto University, and he is a regular member of NEA. His research interest is water induced disaster management.

### Nominations/Special Responsibility



**Er. Dr. Netra Prakash Bhandary** has been nominated as the co-chairperson of International Relation committee of Nepal Engineers' Association (NEA). Er. Dr. Bhandary has completed B.Sc. Eng. (Civil) from Aligarh Muslim University, India, Master and Doctor of Engineering from Ehime University. Currently, Er. Dr. Bhandary is an assistant professor at Ehime University. Er. Dr. Bhandary is a life member of NEA. He is a member of several professional societies including Nepal Geotechnical Society (since 2003), Japanese Geotechnical Society (since 1999), Japan Society of Civil Engineers (since 2000), and International Society of Soil Mechanics and Geotechnical Engineering (since 2003). He had served NEA-JC as a coordinator of Ad hoc committee.

His research interest are landslide and slope failures, residual state creep behavior of clayey soil, residual strength of landslide, clay mineralogy of landslide soil, landslide mechanism, and related topics. Er. Bhandary is currently involved in investigating landslide and earthquake hazards of Nepal.

## NEA-JC Sub-committees

### Publication Committee

- Ar. Roshan Bhakta Bhandari, Co-ordinator, *Kyoto University*
- Er. Bhoj Raj Pantha, Member, *Ehime University*
- Er. Kumar Simkhada, Member, *KDDI Corporation*

### Event Management Committee

- Er. Dr. Akhilesh K. Karna, Co-ordinator, *Nippon Koei*
- Er. Ved Prakash Kafle, Member, *NCIT*
- Er. Bidur Ghimire, Member, *Kyoto University*

### Membership Management Committee

- Er. Madhusudan Kyastha, Co-ordinator, *Chubu University*
- Er. Binaya Kumar Mishra, Member, *Kyoto University*
- Er. Chaitanya Raj Adhikari, Member, *Saga University*

### Professional Relationship Committee

- Er. Basanta Kumar Gautam, Co-ordinator President, 2<sup>nd</sup> Executive Committee
- Er. Dr. Netra Prakash Bhandary, Member Co-chairperson, NEA IRC Co-ordinator, NEA-JC Ad hoc committee
- Er. Dr. Sobhakar Dhakal, member Former President, 1<sup>st</sup> Executive committee

### Web Page Management Committee

- Er. Dr. Ved Prakash Kafle, Member, *NICT*
- Er. Aman Shakya Member, *NII*
- Er. Dr. Phatta Bahadur Thapa, *Tokyo Engineering Consultant Pvt. Ltd.*





# Nepal Engineers' Association Japan Chapter

नेपाल ईन्जिनियर्स एसोसिएसन जापान च्याप्टर

## NEWSLETTER

### Engineers' Day celebration in Japan

– Roshan B. Bhandari

### NEA-JC Talk Program

A one day talk program was organized on 20th July 2008 at Kyoto University, Yoshida Campus by NEA JC on the auspicious occasion of Nepal Engineer's Day. The program was organized by the Event Management Committee (EMC) on behalf of Nepal Engineer's Association, Japan Chapter. There were 18 participants in total comprising of 15 research scholars from Kyoto University, Osaka Sangyo University and Chubu University and 3 other experts from various research institutes and universities. The program was chaired by the president of NEA JC Er. Basanta Kumar Gautam. Five papers were presented in the program by different scholars and researchers as listed below in the sequential order of presentation;

sn	Presenter	Title of Presentation
1	Er. Dr. T. N. Lohani	Exploring the role of NEA in Disaster Mitigation: A Discussion Forum
2	Er. Ripendra Awal	Potential Water Disaster from Earthquake: An Example of Chinese Quake Lake-Tangjiashan
3	Er. Dr. Rabindra Giri	Oxidation of pharmaceuticals and personal care products (PPCPs) in 'laboratory grade water'
4	Mr. Govinda Rizal	Recent Trends in Genetic Engineering
5	Ms. Lata Shakya	A Study of Living Spaces in Buddhist Monasteries in Patan (NEPAL) area

Dr. Lohani's presentation emphasized on the importance of disaster mitigation and reduction in the context of Nepal which is hit by several natural disasters annually and is vulnerable in terms of disasters like earthquake, landslide, GLOF, flood and others. He pointed out the need for efficient warning in the case of disasters and the relevance of cross disciplinary approach to disaster management. NEA as a professional body of experts can be a leader in this sector and improve in the area of data dissemination and updating information. The participants raised concern over proper management of NEA web site and the compilation of research outcome and reports in the web.

Er. Ripendra Awal pointed out some of the recent experiences from the Chinese and Japanese earthquake. He made an interesting presentation about the natural dam formed by the deposition of landslides and earthquakes that could lead to flooding after the failure of such lakes. Er. Dr. Rabindra R. Giri raised the issue of ever-increasing application of pharmaceuticals and personal care products (PPCPs) that contaminates water. He pointed that the conventional treatment methods are not sufficient enough to remove such hazardous domestic effluents and oxidation methods including advanced oxidation processes (AOPs) are promising and widely employed to degrade varieties of organic contaminants in water. Mr. Govinda Rizal described a snapshot of the evolution of agriculture to the present day hydroponics (a method of growing plants using mineral nutrient solutions instead of soil) and the great achievements of genetic engineering. Ms. Lata Shakya emphasized on the need of utilization of the traditional residential spaces in Kathmandu Valley considering the daily activities of the elderly population. She focused mainly on the preservation and rehabilitation of Buddhist monasteries considering all the stakeholders in the community.





### Meeting between JSCE and NEA-JC

*External Relations*

- Basanta Kumar Gautam



A formal meeting was held among the officials of Japan Society of Civil Engineers (JSCE) and the representatives of Nepal Engineers' Association, Japan Center (NEA-JC) on August 18, Monday, at the JSCE Headquarters in Tokyo, to discuss possible co-operation between JSCE and NEA-JC and the role of NEA-JC in facilitating the JSCE-NEA relation.

Established in 1914, JSCE is a prestigious professional organization. It has relationship with more than 26 international professional institutions and organizations including Nepal Engineers' Association (NEA).

The NEA-JC representatives were provided with a tour inside the JSCE Headquarters. After the tour, the meeting participants had a very cordial and frank discussion on many topics.

At the beginning of the discussion, NEA and NEA-JC were briefly introduced. After the introduction, the JSCE officials asked about the status of professionals in the Nepalese society, status of NEA as a professional organization, and many other questions. A brief introduction of JSCE followed it. For NEA-JC representatives, it was a nice opportunity to know about the rich and long history of JSCE.



The JSCE officials welcomed the idea of participation by NEA-JC in different JSCE activities. Within a few days after this meeting, we got an invitation to participate in the International Program during the annual meeting of JSCE. NEA-JC member Er. Jay Prakash Goit participated on it.

It was agreed that participating in each other's annual meetings and conventions would be a good starting point for strengthening the relationship between JSCE and NEA. On the other hand, NEA and Nepal as a whole can gain a lot from the JSCE expertise on disaster research as well as infrastructure development. NEA can request JSCE for their support in many study projects undertaken by NEA. NEA can even choose some development projects and can support those projects with the cooperation from JSCE.

NEA-JC representatives offered to contribute for the establishment of JSCE Section in Nepal, as there are many JSCE members, both Nepalese and Japanese, living and working in Nepal. This can also serve as another *bridge* between JSCE and NEA. This idea was welcomed by JSCE Officials.





### Sustainability Weeks and G8 Hokkaido Summit

- Madan Sigdel, Hokkaido University

Global environmental problems are not limited to specific declines rather they are related to all disciplines to varying degree. Located in the cold region, Hokkaido is a kind of microcosm where the effects of global environmental problems appear most manifestly. Hokkaido University (HU) is the representative in terms of its geographical characteristics.

With the aim of accelerating the pace of research and education that contribute to the realization of sustainable society, HU established Hokkaido university initiative for sustainable development (HUISD) in 2005. HUISD has worked to establish an office for international project; host large scale international symposia; and establish international educational network. In 2008 June-July HUISD host the sustainability weeks over a three week period coinciding with G8 Hokkaido Toyako summit, during which intensive discussion held on many as 30 themes. The following five areas were highlighted as representative fields.

- Global warming
- Integrated water management
- Establishment of recycling oriented community
- Measures against infectious diseases
- The stabilized securement of food and forest



HU hosted the **G8 University Summit** during the Sustainability Weeks 2008, which was initiated by HU in conjunction with the G8 Summit. The G8 University Summit was the first gathering of presidents and other representatives of major universities from the G8 countries and elsewhere. Those present attended at the invitation of the Japanese organizer to discuss the urgent issues facing the international community from academic and neutral perspectives.

HU established the Secretariat for the G8 University Summit (with Hokkaido University President Dr. Hiroshi Saeki as Executive Director) together with the University of Tokyo and Keio University, and played a central role in organizing the event.

The G8 University Summit ran from June 29 to July 1, 2008, with the participation of 140 people from 20 overseas universities, 1 international organization and 14 domestic universities. The participants adopted the Sapporo Sustainability Declaration in recognition of the importance of global sustainability and the responsibilities of universities in achieving such a goal.





# Nepal Engineers' Association Japan Chapter

## नेपाल ईन्जिनियर्स एसोसिएसन जापान च्याप्टर

### NEWSLETTER

*Notice/Announcement*

#### **Invitation to NEA-JC One Day workshop**

Nepal Engineers' Association- Japan Chapter (NEA-JC) is organizing one-day workshop on October 12, 2008 in Tokyo. The theme of the proposed workshop is Current and Future Technologies. The workshop is intended to provide a forum for Nepalese engineers studying and working in Japan to share their technical knowledge and professional experience in Japan. Nepalese engineer friends and others related to technology field in Japan are cordially invited to participate in this event.

#### **Topics**

- Academic/industry research results.
- Prospective Technology Transfer to Nepalese context
- Engineer Employment Opportunities in Japan and relevant professional experience as a foreign engineer in Japan

All the necessary information about this workshop can be found at;  
[http://www.neajc.org/events/second\\_workshop.htm](http://www.neajc.org/events/second_workshop.htm)

All the Proceedings of this Workshop will also be uploaded to the NEA-JC website.

#### **Contact:**

[akhileshkk@gmail.com](mailto:akhileshkk@gmail.com)

[kafleinjapan@yahoo.com](mailto:kafleinjapan@yahoo.com)

[ghimireb@hotmail.com](mailto:ghimireb@hotmail.com)

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### **Request from Membership Management Committee (MMC)**

We would humbly requests all the members to help NEA-JC, by renewing yours membership, and upgrading yours membership to life member whose 5 years period of general member has completed. I would also kindly request all members to find and inform new engineer friends nearby you.

**- NEA-JC Membership Management Committee (MMC), 2008**

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### **NEA-JC Members' Websites**

Aman Shakya

<http://amanshakya.wordpress.com/>

Basanta Kumar Gautam

<http://www.basantagautam.com/>

Badri Bhakta Shrestha

<http://www.dolakhatown.blogspot.com>

/ <http://dolakhaphoto.blogspot.com/>

Deependra Jha

<http://hellobirgunj.blogspot.com>

Kumar Simkhada

<http://www.majheri.com>