



# NEA-JC NEWSLETTER

*A biannual publication of NEA-JC*

Year 1, Issue 1

November, 2007

NEPAL ENGINEERS' ASSOCIATION - JAPAN CHAPTER

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### **Publication Team:**

Er. Dr. Surendra B. Tamrakar  
Er. Bijay Giri  
Er. Dr. Rabin Tuladhar

### **Layout:**

Er. Bijay Giri

### **Contribution:**

Er. Dr. Basanta K. Adhikari  
Er. Bijay Giri  
Er. Dr. Surendra B. Tamrakar

### **Request**

*We request all the members to encourage the publication by providing articles of any kind or other relevant information to be published in this newsletter.*

*We also request to inform us of any kind of achievement or progress gained by our members so as to share with others via this newsletter.*

## Message from the President

It is my honor to write for this first issue of Newsletter. It, surely, is a symbol of progress for NEA-JC that was just started a few years back and now run by 2nd executive committee. Thanks to all fellow colleagues, especially our Publication team, to materialize it.

Starting this publication, we now have a medium to communicate and exchange information for mutual benefits. We can even share our researches to make us more familiar with each other. I am fully confident that this will help strengthening the ties amongst Nepalese engineers and make our activities more vibrant and rewarding to all members.

Publication of newsletters and journals cast

the energy, team spirit and professionalism in a society. It is more challenging to keep them flowing in a scheduled time. I hope that it will get continuity in the future with the support from whole NEA-JC family.

At the end, I sincerely wish that the contents of newsletter will improve with each new issue and it will be able to garner support from the whole Nepalese Engineering community.

Best Wishes!



**Er. Dr. Tara Nidhi Lohani**  
*President, NEA-JC*

## Message from the Coordinator

On behalf of PUBLICATION COMMITTEE (PC) of NEA-JC, it is my pleasure to express few words in this very first publication. I believe that this type of publication will conglomerate we engineers to share our researches for mutual benefit. Publication without any cooperation from our fellow members will be useless. Therefore, I expect all the members to come forward with their ideas and views including articles and research materials.

This issue being our very first publication, it might not be up to the expectation. As we are going to publish this Newsletter biannually, we hope to improve the matters in our future publication. We are also going to

publish a Journal. Please help us by sending your papers, abstracts and so on.

I am happy to have Er. Bijay Giri and Er. (Dr.) Rabin Tuladhar in our PC team without whom this Newsletter would not have been what it is now. I am thankful to EXCOM of NEA-JC for their suggestions during the preparation of ToR of NEWSLETTER.



**Er. Dr. Surendra B. Tamrakar**  
*Publication Coordinator*

### **NEA-JC Task Committees - 2007**

#### **Membership Management Committee (MMC):**

Er. Sanat Wagle, Coordinator  
Er. Badri B. Shrestha, Member  
Er. Sudip Adhikari

#### **Web Page Management Committee (WPMC):**

Er. Dr. Ved P. Kafle, Coordinator  
Er. Deependra K. Jha, Member  
Er. Aman Shakya, Member

#### **Publication Committee (PC):**

Er. Dr. Surendra B. Tamrakar, Coordinator  
Er. Dr. Rabin Tuladhar, Member  
Er. Bijay Giri, Member

#### **Event Management Committee (EMC):**

Er. Dr. Basanta K. Gautam, Coordinator  
Er. Dr. Rabindra R. Giri, Member  
Er. Achyut Sapkota, Member

## Introduction

## President



**Er. (Dr.) Tara Nidhi Lohani** is born and completed his schooling from Lamjung. He did his intermediate in Science (I.Sc.) from Mahendra Morang Campus (MMAMC) (Biratnagar), B.E. (Civil) from

Chandigarh (India), M.E. (Soil Engineering, Geotechnical) from Asian Institute of Technology (AIT) (Pathumthani, Thailand) and Ph.D. (Geotechnical Engineering) from Yokohama National University (Japan). His dissertation topic was "Study of shear stiffness behavior of soft clays around the world and proposal of a new research model".

He worked as a Post doctoral fellow at the university of Tokyo, National Institute of Rural Engineering (NIRE) and Kobe university for about 7 years. Currently, he is associated with Geo-Research Institute (Kobe) as a research engineer.

He is a member of International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE), Japan Geotechnical Society (JGS) and Nepal Geotechnical Society (NGS) and life member of Nepal Geological Society (NGS) and Nepal Engineers' Association (NEA).

(tnlohani@yahoo.com)

## Vice-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 is currently working as a researcher in the Frontier Research Center of Chubu University. He was the coordinator of current seminar organized by NEA-JC.

(basantakg@yahoo.com)

## Secretary



**Er. Bijay Giri** is currently pursuing his Ph.D. in Division of Human Mechanical System and Design (Hokkaido University) with specialization in Biomechanics. He has completed M.Sc. in Mechanical

Engineering (Biomechanics) from the same university. He did Bachelors' in Mechanical Engineering from Institute of Engineering (Nepal) and gained professional experience in different capacities.

Currently, the Secretary of NEA-JC, he had also served NEA-JC as the member of adhoc committee (2005-06) and executive member (2006-07). He is associated with the student committee of European Society of Biomechanics (ESB), International Society of Biomechanics (ISB), Japanese Society of Mechanical Engineers (JSME), Society of Mechanical Engineers Nepal (SOMEN), NEA, etc. He was also associated with NESAJ and HUNSA in different capacities.

(bijayji@yahoo.com)

## Treasurer



**Er. Sanat Wagle** is currently pursuing his Ph.D. course in the Laboratory of Material science, Graduate School of Science and Engineering (Saitama University, Saitama) with specialization in Ultrasonic

Testing of the Materials (alloys). He has completed M.Sc. in Mechanical Engineering (Material Science) from the same university. Prior to this, he has done Bachelors' in Mechanical Engineering from Motilal Nehru Regional Engineering Collage, Allahabad (India) now NIT (Allahabad). A member of Japanese Society of Mechanical Engineers (JSME), Japanese Society of Non destructive Inspection Society and, currently the Treasurer of NEA-JC.

(sanat\_wagle@hotmail.com)

## Member



**Er. Badri Bhakta Shrestha** is from Bhimeshwar MC-2, Dolakha. He has done his B.E. (Civil) and M.Sc. from Institute of engineering (IOE, Nepal). Currently, he is doing his Ph.D. at Kyoto University,

Japan with "Debris Flow and Check dam, Water Resources Engineering" as his research topic.

He had worked as a Civil engineer at Mutual Engineering Consultancy and SASCON Pvt. Ltd. As an Engery development officer, he worked at Rural Energy Development Program also.

(badish10@yahoo.com)

## Member



**Er. Deependra Kumar Jha** has completed his B.E. in Electrical Engineering and M.Sc. from Institute of Engineering (Lalitpur, Nepal). He then joined the same institute as a lecturer. Later, he joined Nepal Electric-

ity Authority. Currently, he is pursuing Ph.D. in the Artificial Complex Systems Operating Laboratory at Hiroshima University. He is serving as Executive Member of NEA-JC.

(dkman1np@yahoo.com)

## Member



**Er. (Dr.) Surendra Bahadur Tamrakar** is born and brought in Ason and Kamalpokhari of Kathmandu. He had done his I.Sc. from Amrit Science College (ASCOL, Kathmandu), B.E. (Mining) from Bengal Engineering College (BE college, W.B., India), M.E. (Soil Engineering, Geotechnical) from Asian Institute of Technology (AIT, Pathumthani, Thailand) and Ph.D. (Geotechnical Engineering) from Hokkaido University (HU, Hokkaido, Japan). His dissertation title is "Design parameters for Elasto-plastic FE analysis of soft clay ground".

He had worked as a mining Engineer in Godavari Marble Industries (Lalitpur, Nepal), Udayapur Cement Industries Ltd. (UCIL, Udayapur, Nepal) and Mining and Geological Department of Nepal Govt. (Lainchaur, Nepal) for more than 3 years. He worked as a research associate in AIT (6 months) as well as HU (2 yrs.) also. After working as a Post doctoral researcher at Japan National Institute of Industrial Safety (JNIIIS) for 4 years, he moved back to HU and doing his research over there.

His current research interest lies in the excavation and monitoring of slopes, their stability analysis, measurement of tensile strength of soil and suction effects, FE analysis of embankment and excavation, etc. He is a member of ISSMGE, JGS, and JSCE and life member of NGA (Geotechnical) and NGA (Geology). Currently, he is a coordinator of Publication committee. He had volunteered as an ER and coordinator for the current election of NEA in NEA-JC.

(surendra682003@yahoo.com)

## 1st Executive Committee of NEA-JC

President	: Er. Dr. Shobhar Dhakal	(Institute for Global Environmental Strategies)
Vice President	: Er. Bipin Kumar Pathak	(Yamanashi University)
Secretary	: Er. Gyanendra Regmi	(Yamanashi University)
Treasurer	: Er. Dr. Basanta Kumar Gautam	(Chubu University)
Member	: Er. Dr. Surya Raj Acharya	(Institute for Transport Policy)
Member	: Er. Dr. Tara Nidhi Lohani	(Kobe University)
Member	: Er. Bijay Giri	(Hokkaido University)

## 1st NEA-JC Seminar

Event



“1st NEA-JC Seminar on Current and Future Technologies”

October 7, 2007, Daito City, Osaka

- Controlling Air pollution: Energy and Greenhouse Gas Linkages in Kathmandu Valley's transportation system - **Shobhakar Dhakal**
- Numerical Approach to Predict Flood/Debris Flow Hydrograph due to Landslide Dam Failure - **Ripendra Awal, Hajime Nakagawa, Kenji Kawaike, Yasuyuki Baba and Hao Zang**
- Study On Debris Flow Deposition and Erosion Process Up-stream of Check Dams - **Badri Bhakta Shrestha, Hajime Nakagawa, Kenji Kawaike and Yasuyuki Baba**
- Study of Living Space for Elderly in Urban Area of Nepal (Comparative Analysis of Spatial Structure between Traditional and New Residential Area) - **Lata Shakya, Ueno Katsuyo and Fujimoto Naohisa**
- Seismic Hazard Estimate of Kathmandu - **Hari Parajuli**
- Benchmarking Results of electricity Generating Plants in Nepal Using Modified DEA models - **Deependra Kumar Jha, Naoto Yorino and Yoshifumi Zoka**
- Communication Networks Research in Nepalese Context - **Ved Kafle**
- Carbon-based Solar Cell: a Possible Solution for Energy and Environmental Problems - **Sudip Adhikari**
- Past and Present Status of Optical Communication - **Madhusudan Kayastha**
- State of Road Disasters and Experiences from the Current Road Building Practices in Nepal - **Netra P. Bhandari**

Proceedings of the seminar is available on CD (contact: [nea\\_japan@yahoo.com](mailto:nea_japan@yahoo.com)). The papers can also be downloaded from <http://neajc.org/index.html>.

## Job Satisfaction: Strategies to Make Work More Gratifying

Article

You've dreamed about an ideal job in which you're motivated, inspired, respected and well paid. But in reality, you've had to settle for something that falls a bit short of your ideal. Maybe it started as your dream job and for a time you loved it. But now you find it harder and harder to get through the day. Lack of job satisfaction can be a significant source of stress. Reasons why you may not be completely satisfied with your job include: 1) Conflict between co-workers, 2) Conflict with your supervisor, 3) Not being appropriately paid for what you do, 4) Not having the necessary equipment or resources to succeed, 5) Lack of opportunities for promotion, 6) Having little or no say in decisions that affect you, 7) Fear of losing your job through downsizing or outsourcing.

Sometimes it's the job itself that causes dissatisfaction. For example, the work may be boring, or ill-suited to your interests, education and skills. It is better to think about what motivates and inspires you explore some strategies to increase your job

satisfaction.

**Consider your approach to work:** People tend to approach work from three perspectives. They view work as a job, a career or a calling. Usually all three perspectives are important, but one or the other is the priority.

If you approach work as a **job**, you focus primarily on the financial rewards. In fact, the nature of the work may hold little interest for you. What's important is the money. If a job with more pay comes your way, you'll likely move on. If you approach work as a **career**, you're interested in advancement. You want to climb the career ladder as far as possible or be among the most highly regarded professionals in your field. You're motivated by the status, prestige and power that come with the job. If you approach your job as a **calling**, you focus on the work itself. You work less for the financial gain or career advancement than for the fulfillment the work brings.

One approach isn't necessarily better than the others, but it's helpful to reflect on why you work if you're unsatisfied with your job and are ready to move on.

**Strategies to improve job satisfaction:** Depending on the underlying cause of your dissatisfaction, there may be several ways to increase your job satisfaction.

**Set new challenges:** If you're stuck in a job because of lack of education or a downturn in the economy, it doesn't mean your work has to become drudgery. With a little imagination, you can create new challenges and make the best of the job you have.

**Improve your job skills:** Develop your own project, Mentor a co-worker.

**Beat the boredom:** Break up the monotony, Cross-training, Volunteer for something different, Ask for a new challenge.

(Courtesy: CNN)

## Event

## NEA Elections 2007

Nepal Engineers' Association 27<sup>th</sup> Executive Committee and Nepal Engineering Council Elections, 2007

## Election Results

I. Nepal Engineers' Association - 27th Executive Committee	
President	Kishor Kumar Shakya
Vice-President	Rameshwor Yadav
General Secretary	Shambhu K.C.
Deputy General Secretary	Dipendra Bahadur Bam
Treasurer	Renu Bishwas Chowdhary
Members	Laxman K.C.
	Hari Bahadur Darlami
	Rishi Raj Dahal
	Dev Raj Niraula
	Kamal Raj Adhikari
	Dhruba Bhatta
	Md. Ragib Hussain
	Swarup Gurung Kone
	Deepak Babu Kandel
	Dharma Narayan Shah

II. Nepal Engineering Council	
Group 'A'	Hirendra Man Pradhan
Group 'B'	Binod Neupane
Group 'C'	Kanhaiya Lal Gupta
Group 'D'	Satya Narayan Shah
Group 'E'	Kul Prasad S. Sapkota

The elections for 27<sup>th</sup> Executive Committee of Nepal Engineers' Association and Nepal Engineering Council according to NEC Act-2055 (5-gna) have recently elected fifteen members for NEA-Executive Committee and five representatives for NEC. Among the fourteen election centers, Kathmandu Centre adopted Electronic Voting System, Japan Centre adopted Postal Voting System and rest of the centers applied Manual System.

## Election Representatives for Japan Centre:

Er. Surendra B. Tamrakar, Hokkaido University  
(Election Officer)

Er. Bijay Giri, Hokkaido University  
Er. Krishna P. Dulal, Hokkaido University

## Article

Why do people get involved as a volunteer in an organization? What is the motivation for people to take their time, money and talent to become involved? What does it take for volunteers to get involved and stay involved? Motivation is an inside job. People do things for their reasons, not others, so the main role is to create a organization culture that stimulates the inner motivation of each volunteer. What are the external stimuli people can use to arouse that inner motivation? Most people respond to three levels of motivation; 1)

**Basic Level:** Self-serving drive, 2) **Secondary Level:** Relational drive and 3) **Highest Level:** Belief drive.

**The basic level of recruiting is self-serving:** People often join an organization because it meets their needs. That need may be for business, for friendship, for belonging or many other self-serving needs.

Political volunteers often are motivated by this basic level. They get involved with a campaign because they see the personal benefit to them usually something financial like taxes.

**The second level is relational:** People also volunteer because of friendship. When a friend personally asks someone to volunteer, it is often hard to say "No." If the friend is excited about a certain cause, s/he is the best person to do recruiting. Many people join an organization and work as volunteers because they were recruited by a friend. The advantage of having a recruiting team is that the synergy of brainstorming increases. Two people only have so many contacts; however, a recruiting team of ten people can produce hundreds of potential volunteers.

**The third level is belief:** The level of belief

is the strongest level of commitment. When people volunteer because of their passion for a cause they actually believe in others cause they find the strongest level of commitment. When people believe in the cause of the organization, even if that cause will cost them a great deal of personal sacrifice and pain, that is when the volunteer is highly motivated. This is true inner motivation that is on the level of Gandhi or Mother Teresa. People join and volunteer because they believe the cause is right.

People often join an organization at level one (self serving) or level two (because of a friend), but in time they become true believers and passionate about the cause.

(excerpts from the article by Thomas W. McKee, a leading volunteer management speaker, trainer and consultant)

## Why People Volunteer

NEA-JC Publication Committee humbly requests all the members to provide the introduction of their career and research activities to be placed in the 'Research Data-Base' of NEA-JC. The brief introduction of members will also be published in series in the 'Introduction' section of NEA-JC Newsletter.

## NEPAL ENGINEERS' ASSOCIATION - JAPAN CHAPTER

Secretariat:  
JAPAN, Sapporo 060-0808  
Kita 8 Nishi 11, 1-4, D203

E-mail: nea\_japan@yahoo.com

We are on the web!

<http://neajc.org/>

