



**American Society of Nepalese Engineers (ASNEngr) and Computer Association of
Nepal-USA (CAN-USA)
present**

Joint ASNEngr/CAN-USA Conference 2011

(4th ASNEngr Annual Conference and Meeting / 4th CAN-USA Annual Development Conference)

**“Engineering, Science, and Technology for Sustainable Development of a Developing
Country”**

Date: July 09-10, 2011

Venue: Bayou Building, University of Houston Clear Lake, 2700 Bay Area Blvd., Houston, TX 77058
(**Hosted by:** Nepalese Engineers and Scientists in the Greater Houston area &
Nepalese Students Association, University of Houston/ Clear Lake, TX)

**You are cordially invited to attend the conference.
For online registration, please visit – <http://www.ASNEngr.org>**

Overall Program Schedule At-a-Glance

Saturday, July 09, 2011

7:30 AM – 4:00 PM	On-Site Registration	B1510, Bayou Building 1 st Floor
8:30 AM – 9:30 AM	Conference Opening	B1510, Bayou Building 1 st Floor
9:30 AM – 10:35 PM	Technical Session I	B1510, Bayou Building 1 st Floor
Session Title: Joint ANMF/ASNEngr/CAN-USA Initiative on Earthquake Preparedness and Disaster Relief in Nepal		
10:40 AM – 12:00 PM	Technical Session II	B1510, Bayou Building 1 st Floor
Session Title: Earthquake Considerations and Flood Analysis in Nepal		
12:05 PM – 1:05 PM	Luncheon	B1510, Bayou Building 1st Floor
Program: Networking and Career Building Luncheon		
1:05 PM – 2:05 PM	Workshop & Discussion	B1510, Bayou Building 1st Floor
Workshop Title: How to Prepare for the Job Search- Workshop and Discussion		
2:15 PM – 3:55 PM	Technical Session III:	B1510, Bayou Building 1 st Floor
Session Title: Renewable Energy Technologies and Engineering Advances		
4:05 PM – 5:25 PM	Technical Session IV	B1510, Bayou Building 1 st Floor
Session Title: Advances in Engineering Design and Management		
5:30 PM – 6:30 PM	ASNEngr General Meeting	B1510, Bayou Building 1st Floor
Meeting & Discussion: ASNEngr Annual General Membership Meeting		
6:30 PM – 9:30 PM	Dinner & Cultural Program	Atrium II, Bayou Building 1st Floor
Dinner Program: Dinner followed by Cultural Program – Courtesy of the Greater Houston Nepalese Engineering and Scientific Community		
9:30 PM – 10:30 PM	ASNEngr BOD Meeting	B1510, Bayou Building 1st Floor
Business Meeting: ASNEngr Board of Directors Meeting		

Sunday, July 10, 2011

9:00AM – Open **Tour & Sight-Seeing** Meet at B1510, Bayou Building 1st Floor.
Tour Event: Sight-seeing around Houston for those interested.- Courtesy of the Greater Houston Nepalese Engineering and Scientific Community

[Please see the following pages for details.]



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Detail Program Schedule

Saturday, July 9, 2011

On-Site Registration & Name Badge pick-up 7:30 AM – 4:00 PM B1510, Bayou Building 1st Floor

Conference Opening 8:30 AM – 9:30 AM B1510, Bayou Building 1st Floor

Conference Welcome and Program/Organization Introduction –
by **Ramesh B. Malla, Ph.D.**, Conference General Co-Chair and President, American Society of Nepalese Engineers (ASNEngr); and **Nabin Khanal**, Conference General Co-Chair and President, Computer Association of Nepal-USA (CAN-USA).

Local Organizing Committee Welcome --
by **Rajendra K. Shrestha, Ph.D.**, Conference Technical Co-Chair and Vice President, American Society of Nepalese Engineers (ASNEngr).

Message from His Excellency Honorable Shankar Prasad Sharma, Ph.D., Ambassador of Nepal to the United States

Welcome Remarks --
by **Honorable Mr. Hubert Vo**, State Representative, State of Texas.

Welcome Remarks --
by **Sameer Pande, Ph.D.**, Executive Director, Office of International Initiatives, University of Houston/Clear Lake, Houston, TX.

Welcome Remarks--

by **Mr. Gordon Quan**, Immigration Attorney and former Houston City Council Member, Foster and Quan, LLP, Houston, TX.

Conference Program Overview –

by **Ramesh B. Malla, Ph.D.**, Conference General Chair and President, American Society of Nepalese Engineers (ASNEngr).

Vote of Thanks –

by **Jagannath Ghimire, P.E.**, General Secretary, American Society of Nepalese Engineers.

Technical Session I 9:30 AM – 10:35 PM B1510, Bayou Building 1st Floor

Session Title: *Joint ANMF/ASNEngr/CAN-USA Initiative on Earthquake Preparedness and Disaster Relief in Nepal*

Session Chairs: **Rajendra K. Shrestha, Ph.D.**, ConocoPhillips Company, Houston, TX; and **Jagannath Ghimire, P.E.**, RK&K, LLP Baltimore, MD.

9:30AM – 9:45 AM

“Status Update on the Joint ANMF/ASNEngr/CAN-USA Initiative on Earthquake Preparedness and Disaster Relief in Nepal” by **Ramesh B. Malla, Ph.D.**, President, American Society of Nepalese Engineers (ASNEngr); University of Connecticut, Storrs, CT.

9:45AM – 9:55 AM

“Earthquake Preparedness and Disaster Relief in Nepal –Infrastructure Safety and Security,” by **Kanhaiya Kayastha, S.E., P.E.**, La Habra (Los Angeles), CA; and **Ramesh B. Malla, Ph.D.**, President, ASNEngr; University of Connecticut, Storrs, CT.

9:55AM – 10:05 AM

Earthquake Preparedness and Disaster Relief in Nepal – Medical and Public Health” by **Sunil Sharma, M.D.**, President, America Nepal Medical Foundation (ANMF), Winchester, VA.

10:05AM – 10:15 AM

Earthquake Preparedness and Disaster Relief in Nepal – Information Technology and Communication” by **Nabin Khanal**, President, CAN-USA; Microsoft, Seattle, WA.

10:15AM – 10:35 AM

“Earthquake Risk Reduction in Nepal – Needs and Opportunities” by **Amod Mani Dixit and Surya Narayan Shrestha**, National Society for Earthquake Technology - Nepal (NSET), Kathmandu, Nepal.

Break

10:35 AM – 10:40 AM

Technical Session II 10:40 AM – 12:00 PM B1510, Bayou Building 1st Floor

Session Title: *Earthquake Considerations and Flood Analysis in Nepal*

Session Chairs: **Ramesh B. Malla, Ph.D.**, Department of Civil & Environmental Engineering, University of Connecticut, Storrs, CT; and **Samana D. Ghimire**, Intuitive Surgical Inc., Sunnyvale, CA.

10:40 AM – 11:00 AM

“Earthquake Safer and Climate Responsive School Building Construction in Nepal” by ***Jishnu K. Subedi, Ph.D.***, Institute of Engineering/Pulchowk Campus, Lalitpur, Nepal.

11:00 AM – 11:20 AM

“Earthquake Hazards in the Kathmandu Valley: Geological and Geotechnical Considerations” by ***Rajendra K. Shrestha, Ph.D.***, ConocoPhillips Company, Houston, TX.

11:20 AM – 11:40 AM

“Seismic Vulnerability of Buildings in Developing Areas of the Globe: Nepal” by ***Sujan Man Shakya, Alok Jung Karki, Janak Thapa, and Enno “Ed” Koehn, Ph.D.***, Lamar University, Beaumont, TX.

11:40AM – 12:00 PM

“Regional Flood Frequency Analysis of Bagmati and Narayani River Basins using L-Moment” by ***Rajendra Shrestha***. G. C. Engineering, Pearland, TX.

Networking Luncheon 12:05 PM – 1:05 PM B1510- Bayou Building 1st Floor
Program: *Networking and Career Building Luncheon (Courtesy of Nepalese Association of Houston, NAH)*

Workshop and Discussion 1:05 PM – 2:05 PM B1510, Bayou Building 1st Floor
Workshop Title: *“How to Prepare for the Job Search”*
Presented by: *Nabin Khanal*, President, CAN-USA; Microsoft, Seattle, WA;
and *Jagannath Ghimire*, General Secretary, ASNEng; RK&K, LLP, Baltimore, MD.
Discussion Moderated by: *Rajendra K. Shrestha, Ph.D.*, ConocoPhillips Co., Houston, TX.

Technical Session III 2:15 PM – 3:55 PM B1510, Bayou Building 1st Floor
Session Title: *Renewable Energy Technologies and Engineering Advances*
Session Chairs: *Nabin Khanal*, Microsoft, Seattle, WA; and *Sanjay Basnet, P.E.*, Bechtel Corporation, Houston, TX.

2:15PM – 2:35 PM

“Bridge Vibration Energy Harvesting utilizing an Electromagnetic Generator” by ***Ramesh B. Malla, Ph.D.*** and ***Luis Vila***, Department of Civil & Environmental Engineering, University of Connecticut, Storrs, CT.

2:35PM – 2:55 PM

“Fluidization of Inert, Biomass Particles, and Biomass/Sand Mixtures” by ***Basu Paudel***, Department of Mechanical and Energy Engineering, University of North Texas, Denton, TX; and ***Zhi-Gang Feng, Ph.D.***, Department of Mechanical Engineering, University of Texas, San Antonio, TX.

2:55PM – 3:15 PM

“Development of a Technique to Diagnose Subtalar Joint Instability” by ***Ajaya Dhakal***, Old Dominion University, Norfolk, VA.

3:15 PM – 3:35 PM

“Structural and Functional Characterization of Hard Tissue using X-ray Diffraction Method”

by *Bijay Giri, Ph.D.*, Department of Mechanical Engineering, University of Texas, San Antonio, TX; *Shigeru Tadano, Ph.D.*, Hokkaido University, Sapporo, Hokkaido, Japan; and *Xiaodu Wang, Ph.D.*, Department of Mechanical Engineering, University of Texas, San Antonio, TX.

3:35 PM – 3:55 PM

“Elements of Rigid Pavement & Construction” by **Prakash Shrestha, P.E.**, Bain Median, Inc., San Antonio, TX.

Break

3:55 PM – 4:05 PM

Technical Session IV

4:05 PM – 5:25 PM

B1510, Bayou Building 1st Floor

Session Title: *Advances in Infrastructure Design and Management*

Session Chairs: *Janak Thapa, P.E.*, Demar, LLC, Houston, TX; and *Pradeep Khanal*, Intel Corp., Santa Clara, CA.

4:05PM – 4:25 PM

“Design of a Swivel Hoist, Bracket Lifting Lug for Multi-Directional Forces and Moments” by *Kamesh Adhikary, P.E.*, Richmond, TX.

4:25 PM – 4:45 PM

“Urban Transportation System A Closer Look at Baltimore City” by *Jagannath Ghimire, P.E.*, RK&K, LLP Baltimore, MD.

4:45PM – 5:05 PM

“Lead Acid Battery in ICT - Time to Manage the Toxin” by *Samana D. Ghimire*, Intuitive Surgical Inc., Sunnyvale, CA and *Amod K. Pokhrel, Ph.D.*, Environmental Health Sciences, University of California, Berkeley, CA.

5:05PM – 5:25 PM

“Pavement Design & Management System at Houston Airport System” by *Dev Raj Pokhrel*, Department of Aviation, Houston Airport Systems, Houston, TX.

ASNEngr General Meeting

5:30 PM – 6:30 PM

B1510, Bayou Building 1st Floor

Meeting & Discussion: *ASNEngr Annual General Membership Meeting*

Dinner & Cultural Program

6:30 PM – 9:30 PM

Atrium II, Bayou Building 1st Floor

Program: *Dinner followed by Cultural Program* (Courtesy of the Greater Houston Nepalese Engineering and Scientific Community)

ASNEngr BOD Meeting

9:30 PM – 10:30 PM

B1510, Bayou Building 1st Floor

Business Meeting: *ASNEngr Board of Directors Meeting*

Sunday, July 10, 2011

Tour & Sight-Seeing

9:00 AM - Open

Meet at B1510, Bayou Building 1st Floor

Tour Event: *Sight-seeing around Greater Houston area for those interested* – (Courtesy of the Greater Houston Nepalese Engineering and Scientific Community)