

FINAL CONFERENCE PROGRAM BROCHURE

Welcome

to the

**Tenth (10th) American Society of Nepalese Engineers
(ASNEng) Annual Conference and Meeting**

“Innovation in Engineering and Scientific Knowledge for Tomorrow”

Conference Organized By

**American Society of Nepalese Engineers (ASNEng)
P. O. Box 39524
Baltimore, Maryland 21212-9998, USA
Email: info@ASNEng.org / Web: www.ASNEng.org**

Conference Hosted By

ASNEng Greater Washington, D.C. Chapter

Venue

**Best Western Battlefield Inn
10820 Balls Ford Road, Manassas, Virginia 20109, USA**

Date

Saturday, June 24 - Sunday, June 25, 2017

Conference Website

www.ASNEng.org

WELCOME FROM CONFERENCE CHAIRS

On behalf of the Conference Organizing Committee of the American Society of Nepalese Engineers (ASNEngr), we would like to extend our greetings and warm welcome to you to the 10th ASNEngr Annual Conference and Meeting being held at Best Western Battlefield Inn, Manassas, Virginia (Greater Washington, D.C. area), U.S.A. on 24th and 25th of June 2017. The conference is hosted by the Greater Washington D.C. Chapter of ASNEngr. This special conference has an unique theme of “*Innovation in Engineering and Scientific Knowledge for Tomorrow*” with the principal objective of assembling faculty, engineers, scientists, students and other professionals from related areas together on a common platform for sharing and disseminating knowledge and experience with broader scientific and engineering communities.

The conference program covers a wide variety of engineering and scientific areas ranging from earthquake disaster preparedness, infrastructures, sciences, energy and environmental issues to recent advances and innovation in engineering and technology. The e program includes six technical sessions, an open discussion forum, networking, dinner and a cultural program on the 1st day, and the ASNEngr Annual Membership meeting on the 2nd day. The six sessions on the first day include the Conference Opening with invited guest speakers, a Keynote Lecture, a Plenary Session, a Poster Session, and 2 more technical oral presentation sessions. The poster session is an added attraction this year and reflects the impressive larger number of abstracts received which exceeds the available oral presentation slots. Each of these sessions will feature individual presentations and question-answer forum to facilitate sharing of knowledge and experience among fellow engineers, scientists and professionals.

This year we are proud to have many invited distinguished guests such as His Excellency Dr. Arjun Karki, Nepalese Ambassador to the United States; His Excellency Mr. Scott DeLisi, former US Ambassador to Nepal; His Excellency His Excellency, Mr. Durga Prasad Bhattarai, Permanent Representative, Permanent Mission of Nepal to the United Nations; Mr. Jesse Gutierrez, P.E., Deputy Chief Engineer, USAID/E3/Office of Energy and Infrastructure;; and Dr. Tri Ratna Bajracharya, Dean, Institute of Engineering, Tribhuvan University, Nepal. We are also very proud to have a keynote lecture on the timely and very important topic “Building Resilience in Nepal’s Healthcare System” by Professor Judith Mitrani-Resiser, Director of Engineering Laboratory, NIST and Co-Director, Center for Systems Science and Engineering, Johns Hopkins University. We also have invited speakers in the Plenary Session related to the conference theme presented by Professor Ayhan Irfanoglu of Purdue University; Mr. Mathew Francis, Senior Program Manager. of AECOM; and Dr. Govinda Timilsina, Senior Economist of The World Bank. The presenters and participants come from a broad base, including academia, government agencies, international organization, and industries.

We would like to express our heartfelt gratitude to the authors/presenters who submitted their abstracts and are willing to share their research results and knowledge to the conference attendees. We believe that the conference will provide all participants ample opportunity to share their knowledge and experience in their pertinent areas and create a common discussion ground for the

further enhancement of knowledge for the future development of technology for humankind. We would also like to thank the conference attendees for taking their valuable time in participating and supporting the conference. Our sincere thanks are due to all Conference Organizing Committee members, in particular the Local Organizing Committee members for their tireless effort and countless hours of voluntary service, and to the members of the Board of Directors of ASNEng for their valuable suggestions and support.

Last but not least, we would like to express our deep appreciations to each and every distinguished invited guest and speakers in attendance, and all sponsors/donors for their generous support and contribution for the success of this special 10th anniversary conference. We wish you all an enriching and memorable time at the conference.

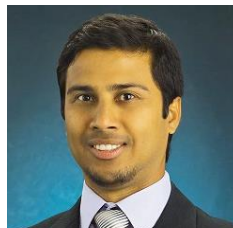
With warm regards,



Ramesh B. Malla,
Ph.D., F. ASCE, F.
ASNEng
General Chair
Founding President,
ASNEng
University of
Connecticut, Storrs,
CT.



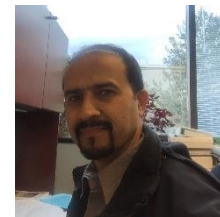
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ASNEng
Technical Chair
U & S Engineers,
P.C. Lambertville,
NJ.



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Ph.D.
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*Local Committee
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Dilli Neupane, P.E.,
*Local Committee Co-
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Sustainable
Engineering for
Energy &
Environment, Falls
Church, VA

American Society of Nepalese Engineers (ASNEng)

Presents the

Tenth (10th) ASNEng Annual Conference and Meeting

Theme: “Innovation in Engineering and Scientific Knowledge for Tomorrow”

Date: June 24-25, 2017

Venue: Best Western Battlefield Inn
10820 Balls Ford Road, Manassas, Virginia 20109, USA

Hosted by: ASNEng Greater Washington, D.C. Chapter

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

—Overall Program Schedule at-a-Glance—

(Subject to change)

Saturday, June 24, 2017

(Room)

7:45 AM – 8:45 AM	Breakfast	Conference Hall
7:45 AM – 1:00 PM*	On-Site Registration	Conference Hall
<i>*Note: For evening programs, registration is open 5:30 PM -7:30 PM</i>		
8:45 AM – 10:05 AM	Conference Opening & Guest speakers	Conference Hall
10:05 AM – 10:45 AM	Keynote Lecture (INVITED SPEAKER)	Conference Hall
10:45 AM – 10:55 AM	Break	Conference Hall
10:55 AM – 12:10 PM	Technical Session I: Plenary Session (INVITED SPEAKER)	Conference Hall
12:10 PM – 12:55 PM	Luncheon	Conference Hall
12:55 PM – 1:55 PM	Technical Session II: Poster Session and Interaction	Conference Hall
1:55 PM – 3:20 PM	Technical Session III: Energy and Recent Advances in Engineering and Sciences	Conference Hall (5 Presentations)
3:20 PM – 3:40 PM	Refreshment Break	Conference Hall
3:40 PM – 5:00 PM	Technical Session IV: Advances in Infrastructure Research, Development, Design and Analysis	Conference Hall (5 Presentations)
5:15 PM – 5:30 PM	Break	Conference Hall
5:30 PM – 6:30 PM	Open Discussion, Comment, and Feedback Forum	Conference Hall
6:15 PM – 7:30 PM	Pre-dinner Networking program	Pool Side
7:30 PM – 10:00 PM	Dinner and Cultural Program	Conference Hall

Sunday, June 25, 2017

8:00 AM – 9:00 AM	Breakfast	Conference Hall
9:00 AM – 11:00 AM	ASNEng Annual Membership Meeting	Conference Hall
<i>(All non-member conference attendees welcomed as Guests)</i>		
11:00 AM	Conference Closure	
11:30 PM – Ongoing	Sight-seeing of Greater Washington DC Area	
<i>(For those interested)</i>		

American Society of Nepalese Engineers (ASNEngr)

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Detail Conference Program Schedule

Saturday, June 24, 2017

<u>On-Site Registration</u>	7:45 AM – 1:00 PM*	<i>Conference Hall</i>
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*Note: For evening programs, registration is open 5:30 PM -7:30 PM.

<u>Breakfast</u>	7:45 AM – 8:45 AM	<i>Conference Hall</i>
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<u>Conference Opening</u>	8:45 AM - 10:05 AM	<i>Conference Hall</i>
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*Conference Opening, Welcome, Introduction of Invited Guests, and Overall Program Overview –
by **Ramesh B. Malla, Ph.D., F. ASCE, F. ASNEngr**, Conference General Chair and Founding
President, ASNEngr*

*Conference Technical Program Overview –
by **Upendra L. Karna, D. Eng. P. E.**, Conference Technical Chair and **Rabin Bhattarai, Ph.D.**,
Technical Co-Chair*

*Local Organizing Committee Welcome –
by **Mangal Maharjan**, Chair, Conference Local Organizing Committee*

*ASNEngr Welcome and Organization Introduction–
by **Jagannath Ghimire, P.E.**, President, American Society of Nepalese Engineers (ASNEngr)*

Invited Guest Speakers:

- **His Excellency Arjun Karki, Ph.D.**, Nepalese Ambassador to the United States of America, Washington, D.C.
“*Inaugural Welcome Remarks*”
- **His Excellency Scott DeLisi**, Former U.S. Ambassador to Nepal; currently Executive Director, Soarway Foundation - Engage Nepal, Canonsburg, PA
“*Earthquake Preparation in Nepal and Potential Partnership Going Forward*”
- **His Excellency. Durga Prasad Bhattarai**, Permanent Representative, Permanent Mission of Nepal to the United Nations, New York, NY
“*Permanent Mission of Nepal to the UN and Nepali Diaspora*”
- **Jesse Gutierrez, P.E.**, Deputy Chief Engineer, USAID|E3|Office of Energy and Infrastructure, Washington, D.C.
“*USAID/State Department Programs in Nepal*”
- **Tri Ratna Bajracharya, Ph.D.**, Dean, Institute of Engineering (IOE), Tribhuvan University, Kathmandu, Nepal
“*Collaboration between ASNEng and IOE*”

Vote of Thanks

by **Dilli Neupane, P.E.**, President, ASNEng Greater Washington D.C. (GWDC) Chapter

Keynote Address**10:05 AM - 10:45 AM***Conference Hall****“Building Resilience in Nepal’s Healthcare System”***

By **Judith Mitrani-Reiser, Ph.D.**, Director, Disaster & Failure Studies Program, Engineering Laboratory, National Institute of Standards and Technology, MD; Assistant Professor of Civil Engineering and Emergency Medicine and Co-Director, Center for Systems Science and Engineering, Johns Hopkins University, Baltimore, MD

(Introduced by: **Ramesh B. Malla, Ph.D., F. ASCE, F. ASNEng**; Founding President, ASNEng; University of Connecticut, Storrs, CT.)

Keynote Speaker Dr. Judith Mitrani-Reiser:

Dr. Mitrani-Reiser is the Director of the Disaster and Failure Studies Program at the National Institute of Standards and Technology (NIST) and an Assistant Professor of Civil Engineering and Emergency Medicine at Johns Hopkins University (JHU). Her research is focused on disaster metrology, the performance assessment of critical infrastructure, the safety and economic impact of hazards on the built environment, the effective communication of these risks to the public, informed decision making for use in emergency management and policy making, and the interaction of humans with the built environment. She is leading a multidisciplinary staff responsible for conducting fact-finding investigations of structural failures and disasters that resulted in substantial loss of life or that posed significant potential for substantial loss of life; promoting the implementation of recommendations from those studies to improve codes, standards and practices; and carrying out the statutory responsibilities assigned by the National Construction Safety Team (NCST) Act.



Dr. Mitrani-Reiser is an Associate of the Center for Refugee and Disaster Response (CRDR), a member of the American Society of Civil Engineers (ASCE), the Earthquake Engineering Research Institute (EERI), the Seismological Society of America (SSA), and the World Association for Disaster and Emergency Medicine (WADEM). She is the Vice Chair for ASCE's Subcommittee on Multi-Hazard Mitigation, and is a member of ASCE's Committee on Disaster Resilience of Structures and of the Committee of Critical Facilities in ASCE's Infrastructure Resilience Division, and a member of EERI's Learning From Earthquakes Committee.

Break**10:45 AM – 10:55 AM****Technical Session I****10:55 AM – 12:10 PM***Conference Hall**(Oral Presentation)***Session Title: *Plenary Session (INVITED)***

Session Chairs: *Bimal Devkota, P.E.*, City of Baltimore, Baltimore, MD and *Sukh Gurung, Ph.D., P.E.*, Langan Engineering, Manhattan, NY

(Note: Presenter's name is underlined in a paper with multiple authors)

10:55 AM – 11:20 AM

“Field Survey and Guidelines for Preliminary Evaluation of Reinforced Concrete Buildings in Nepal” by ***Santiago Pujol, Ph.D.***; ***Prateek Shah***; and ***Ayhan Irfanoglu, Ph.D.***, Purdue University, W. Lafayette, IN.

11:20 AM – 11:45 AM

“The UN Disaster Resilience Scorecard for Nepal Earthquake Recovery” by ***Mr. Mathew Francis, P.E.***, F. EERI, AECOM, Salt Lake City, UT; ***Michael Whitworth, Ph.D.***, AECOM, Plymouth, U.K.; ***Judith Mitrani-Reiser, Ph.D.***, Johns Hopkins University, Baltimore, MD; ***Suman Manandhar, Ph.D.***, Lumbini International Academy of Science & Technology, Lumbini Buddhist University, Lumbini, Nepal; and ***Anup Gautam, PMP***, AECOM Richmond, VA

11:45 AM – 12:10 PM

“Policy Paper: Financing Hydropower for Economic Development in Nepal” by ***Govinda Timilsina, Ph.D.***, Environment & Energy Development Research Group, The World Bank, Washington, D.C.

Luncheon

12:10 PM – 12:55 PM

Conference Hall

Technical Session II

12:55 PM – 1:55 PM

Conference Hall

Poster Session and Interaction

Session Chairs: ***Ananda Paudel, Ph.D.***, Metropolitan State University of Denver, Denver, CO; and ***Ram C. Poudel***, Institute of Engineering/Pulchowk Campus, Tribhuvan University, Kathmandu, Nepal (currently at the University of Massachusetts, Amherst, MA).

(Note: Presenter’s name is underlined in a paper with multiple authors)

(Invited) “Application of Roof Top based Solar Electricity for Reducing Trade Deficit in Nepal” by ***Jagan Nath Shrestha, Ph.D.***, Center for Energy Studies, Institute of Engineering, Tribhuvan University, Nepal; and ***Debendra Bahadur Raut***, Advanced College of Management and Engineering, Purbanchal University, Nepal.

(Invited) “Wind Solar Hybrid Minigrid system for rural electrification of remote village in Nepal” by ***Mr. Prakash Aryal***, Senior Officer/Program Manager, Alternative Energy Promotion Center (AEPC), Ministry of Population and Environment, Government of Nepal, Khumaltar, Lalitpur, Nepal.

“Accelerated Bridge Construction (ABC) Technology” by ***Purna Dahal, P.E.***, RK&K, King of Prussia, PA; and ***Sudha Bhsual, P.E.***, Geo-Explorers, Inc, Limerick, PA.

“Geotechnical Investigation in Extreme Terrain” by ***Rakam Tamang, P.E.*** and ***Michael Byle***, Tetra Tech, Inc., Langhorne, PA.

“Nanomechanical Properties of Cement Paste” by ***Kaushal Jha, Ph.D., P.E.***, Raba Kistner, Inc. and ***Nakin Suksawang, Ph.D., P.E.***, Florida Institute of Technology, Melbourne, FL.

“Analysis of Water Vapor Retrievals from Ozone Monitoring Instrument” by ***Sahara Joshee***, Towson University, Towson, MD (*Student Poster*).

“Maximizing Ozone Generation for Water Purification” by ***Sarahana Joshee***, University of Maryland, Baltimore County, Baltimore, MD (*Student Poster*).

“Heart Beat/Pulse Detector” by ***Sujana Khakural***, Senior, Electrical Engineering, George Mason University, Fairfax, Virginia, Electrical Engineering, George Mason University, Fairfax, VA (*Student Poster*)

Technical Session III

1:55 PM – 3:20 PM

Conference Hall

*(Oral Presentation)***Session Title: *Energy and Recent Advances in Engineering and Sciences*****Session Chair(s): Shyam KC, Ph.D., The World Bank, Washington, DC and Rajendra Shrestha, P.E., City of Pearland, Pearland, TX***(Note: Presenter's name is underlined in a paper with multiple authors)***1:55 PM – 2:20 PM****(Invited) “*Estimation of Bagasse Based Grid Connection Cogeneration Potential in Nepal and Impact Analysis*”** by Prof. Tri Ratna Bajracharya, Dean, Institute of Engineering, Tribhuvan University, Kathmandu, Nepal; and Sagar Mani Gnawali, Nepal Electricity Authority, Kathmandu, Nepal.**2:20 PM – 2:40 PM****“*Power: Renewables, Smart Grid and Me*”** by Surya Lamsal, P. E., New York University & New York Power Authority, NY.**2:40 PM – 3:00 PM****“*A Tool for Quantifying the Snow and Glacier Melt in Higher Asian Mountains*”** by Vinod Mahat, Ph.D., Stantec, Laurel, MD.**3:00 PM – 3:20 PM****“*Identification of Sub-Population of Cells from Single-Cell Transcriptome data*”** by Pujan Joshi; Seung-Hyun Hong, Ph.D.; and Dong-Guk Shin, Ph.D., Department of Computer Science and Engineering, University of Connecticut, Storrs, CT.**Break****3:20 PM – 3:40 PM****Technical Session IV**

3:40 PM – 5:00 PM

Conference Hall

*(Oral Presentation)***Session Title: *Advances in Infrastructure Research, Development, Design, and Analysis*****Session Chair(s): Upendra Poudel, Ph.D., P.E., SK&A MD | Structural Engineers, Potomac, MD; and Rishi Baral, P.E., Stafford County Government, Stafford, VA***(Note: Presenter's name is underlined in a paper with multiple authors)***3:40 PM – 4:00 PM****“*Earthquake Geotechnical Characterization Kathmandu Valley with Reference to the 2015 Gorkha Earthquake (Mw 7.8)*”** by Deepak Chamlagain, Ph.D., Tri-Chandra M. Campus, Tribhuvan University, Kathmandu, Nepal; Giuseppe Lanzo, Ph.D., Sapienza University of Rome, Rome, Italy; Alessandro Pagliaroli, Ph.D., University of Chieti-Pescara, Pescara, Italy; Nakhorn Poovarodom, Ph.D., Thammasat University, Pathumthani, Thailand; and Bibek Giri, Tribhuvan University, Kathmandu, Nepal.

4:00 PM – 4:20 PM

“Conventional Tunneling in Difficult Ground” by *Sandeep Pyakurel, Ph.D., P.E.*, Gall Zeidler Consultants, Ashburn, VA.

4:20 PM – 4:40 PM

“Importance of Bridge Condition Evaluation Programs, Current Practices in the United States and It’s Applicability in Nepal” by *Upendra L. Karna, D. Eng., P. E.* and *Dinesh Dhakal*, U&S Engineers, PC, Lambertville, NJ.

4:40 PM – 5:00 PM

“Resonance Analysis of a Railway Bridge under High Speed Train Load” by *Suvash Dhakal; David Jacobs, P.E.* and *Ramesh B. Malla, Ph.D.*, Department of Civil & Environmental Engineering, University of Connecticut, 261 Glenbrook Road, Storrs, CT.

Break

5:00 PM – 5:15PM

Open Discussion, Comments, and Feedback Forum

5:15 PM – 6:30 PM

Conference Hall

Moderators:

Thakur Dhakal, P.E. Fairfax County Government, Fairfax, VA and
Janak Thapa, P.E., CH2M, Houston, TX

Pre-dinner Networking

6:30 PM – 7:30 PM

Conference Hall

Dinner & Cultural Program

7:30 PM – 10:00 PM

Conference Hall

Sunday, June 25, 2017

Breakfast

8:00 AM – 9:00 AM

Conference Hall

ASNEng Annual Membership Meeting

9:00 AM – 11:00 AM

Conference Hall

(All non-member conference attendees welcomed as Guests)

Conference Closure

11:00 AM

Conference Hall

Sight-seeing of Greater Washington, D.C. Area

11:30 AM
(For those interested)

Conference Hall

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University of Connecticut, Storrs, CT (E-mail: MallaR@engr.uconn.edu)

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U & S Engineers, P.C. Lambertville, NJ (E-mail: UKarna.asne@gmail.com)

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University of Illinois, Urbana-Champaign, IL (E-mail: BhattaraiRabin@gmail.com)

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Mangal Maharjan, Local Committee Chair

Solar Energy World, Elkridge, MD (E-mail: maharjan77@yahoo.com)

Dilli Neupane, P.E., Local Committee Co-Chair

Sustainable Engineering for Energy & Environment, Falls Church, VA
(E-mail: drneupane@gmail.com)

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Thakur Dhakal
Durga Kharel

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Sagar Khadka (*Coordinator*)
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Ramesh Khanal
Biplesh Niroula

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Ramesh Khanal

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Local Volunteers (Cont'd):

Ujwol Adhikari, Woodbridge, VA
Sudin Amatya, Silver Spring, MD
Subrat Aryal, New Jersey
Rishikesh Bhandari, Fairfax, VA
Nirman Dhakal, Herndon, VA
Lenny Kaznachey, Fairfax, VA
Suneksha KC, Herndon, VA
Binam Maharjan, Elkridge, MD
Anshu Neupane, Fairfax, VA
Ayan Neupane, Fairfax, VA
Prerana Pachhai, Herndon, VA
Shriti Pant, Chantilly, VA
Nitish Regmi, Fairfax, VA
Yadav Timilsina, Fairfax, VA

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Conference Websites

For more information on the conference, please visit the following websites:
www.ASNEng.org (“Annual Conferences and Meetings”)
