

**DETAIL CONFERENCE PROGRAM**

**(Subject to Change/July 17, 2018)**

**Welcome**

**to the**

**Eleventh (11<sup>th</sup>) American Society of Nepalese Engineers  
(ASNEng) Annual Conference**

**“Exploring the Advancement in Research and Development of  
Engineering, Science and Technology”**

**Organized By**

**American Society of Nepalese Engineers (ASNEng)**

**P. O. Box 39524**

**Baltimore, Maryland 21212-9998, USA**

**Email: [info@ASNEng.org](mailto:info@ASNEng.org) / Web: [www.ASNEng.org](http://www.ASNEng.org)**

**Hosted By: Colorado Nepalese Engineering and IT Professionals**

**Venue**

**Denver Tech Center,  
8301 E. Prentice Avenue, Greenwood Village, CO 80111**

**Date**

**Saturday, July 21 - Sunday, July 22, 2018**

**Conference Website**

**<http://asnengr.org/conference/2018/>**

## **WELCOME FROM CONFERENCE CHAIRS**

On behalf of the Conference Organizing Committee of the American Society of Nepalese Engineers (ASNEng), we would like to extend our greetings and warm welcome to you to the 11<sup>th</sup> ASNEng Annual Conference being held at Denver Tech Center, Greenwood Village, CO), U.S.A. on 21<sup>st</sup> and 22<sup>nd</sup> of July 2018. The conference is hosted by the Colorado Nepalese Engineering and IT Professionals. This conference has an unique theme of “*Exploring the Advancement in Research and Development of Engineering, Science and Technology*” 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 resilience planning, infrastructures, energy and environmental issues to recent advances and innovation in engineering and technology. The technical program includes five technical sessions, networking session, dinner and a cultural program on the 1<sup>st</sup> day, and the ASNEng Annual Membership meeting on the 2<sup>nd</sup> day. The six sessions on the first day include the Conference Opening with invited guest speaker, a Plenary Session with keynote speakers, and 4 more technical oral presentation sessions. 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. We are also very proud to have three keynote lectures by 1) Dr. Barry Bialek, Founder and Executive Director, Nepal Community Development Foundation, Boulder, CO, 2) Emily Wolin, Ph.D., Research Geophysist, USGS, and 3) Mathew Francis, P.E., F. EERI Southwest Area Water/Wastewater Department Manager, Infrastructure Resilience / DRR / Geohazards, AECOM, Salt Lake City, UT. 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 our 11<sup>th</sup> annual conference. We wish you all an enriching and memorable time at the conference.

*With warm regards,*



Upendra Karna, D.Eng., P.E., F.  
ASNEng  
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U & S Engineers, P.C.  
Lambertville, NJ.



Thakur Dhakal P.E.,  
Technical Chair  
Fairfax County Government,  
Fairfax, VA



Rabin Bhattarai, Ph.D.  
Technical Co-Chair  
University of Illinois, Urbana-  
Champaign, IL.



Ananda M Paudel, PhD  
Local Committee Chair  
Metropolitan State University of  
Denver, Denver, CO

**American Society of Nepalese Engineers (ASNEngr)**

**Eleventh (11<sup>th</sup>) ASNEngr Annual Conference**

**Theme:** “Exploring the Advancement in Research and Development in Engineering, Science and Technology”

**—Overall Program Schedule at-a-Glance—**

**Saturday, July 21, 2018**

*(Room)*

8:00 AM – 8:45 AM	<b>Light Breakfast</b>	Conference Hall
8:00 AM – 1:00 PM*	<b>On-Site Registration</b>	Conference Hall
8:45 AM – 9:15 AM	<b>Conference Opening &amp; Guest speakers</b>	Conference Hall
9:15 AM – 10:30 AM	<b>Keynote/Plenary Session (INVITED SPEAKERS)</b>	(3 Presentations)
10:30 AM – 10:45 AM	<b>Break</b>	
	<b>Regular Technical Session I:</b>	
10:45 AM – 12:15 PM	<i>Advances in Infrastructure Research, Development, Design, and Analysis</i>	(6 Presentations)
12:15 PM – 1:05 PM	<b>Luncheon</b>	Conference Hall
1:05 PM – 2:20 PM	<b>Regular Technical Session II:</b>	Conference Hall
	<i>Recent Advances in Information Technology and Engineering Education</i>	(5 Presentations)
2:20 PM – 2:30 PM	<b>Refreshment Break</b>	
2:30 PM – 3:15 PM	<b>Regular Technical Session III:</b>	
	<i>Recent Advances in Energy Engineering and Sciences</i>	(3 Presentations)
3:15 PM – 3:25 PM	<b>Refreshment Break</b>	
3:25 PM – 4:25 PM	<b>Regular Technical Session IV:</b>	
	<i>Advances in Water Resources and Environmental Engineering</i>	(4 Presentations)
4:25 PM – 4:40 PM	<b>Refreshment Break</b>	
4:40 PM – 5:10 PM	<b>Hackathon Result and Awards</b>	
5:10 PM – 6:00 PM	<b>Networking Social</b>	
6:00 PM – 9:30 PM	<b>Dinner and Cultural Program</b>	

**Sunday, July 22, 2018**

8:00 AM – 8:30 AM	<b>Light Breakfast</b>	
8:30 AM – 10:30 AM	<b>ASNEngr Annual Membership Meeting</b>	Conference Hall
	<i>(All non-member conference attendees welcomed as Guests)</i>	
10:30 AM	<b>Conference Closure</b>	
11:10 PM – Ongoing	<b>Sight-seeing of Greater Denver Area</b>	
	<i>(For those interested)</i>	

***You are cordially invited to attend the conference.  
For registration, please visit –<http://asnengr.org/conference/2018/>***

**American Society of Nepalese Engineers (ASNEng)**

**Eleventh (11<sup>th</sup>) ASNEng Annual Conference**

**Theme:** “Exploring the Advancement in Research and Development in Engineering, Science and Technology”

**Detail Conference Program Schedule**

**Saturday, July 21, 2018**

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

<b><u>Light Breakfast</u></b>	<b>8:00 AM – 8:45 AM</b>	<i>Conference Hall</i>
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<b><u>Conference Opening</u></b>	<b>8:45 AM - 9:15 AM</b>	<i>Conference Hall</i>
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*Conference Opening, Welcome, Introduction of Invited Guests, and Overall Program Overview –  
by Upendra L. Karna, D.Eng., P. E., F. ASNEng, Conference General Chair*

*Conference Technical Program Overview –  
by Thakur Dhakal, P. E., Conference Technical Chair and Rabin Bhattarai, Ph.D., Technical Co-Chair*

*Local Organizing Committee Welcome –  
by Ananda Paudel, Ph.D., Chair, Conference Local Organizing Committee  
Rohit Shrestha, Adventure Colorado  
Bodh Raj Tripathi, Rocky Mountain Friends of Nepal (RMFN)*

*ASNEng Welcome and Organization Introduction–  
by Jagannath Ghimire, P.E., Immediate Past President, American Society of Nepalese Engineers (ASNEng),  
Upendra L Karna, D.Eng., P.E., President, American Society of Nepalese Engineers (ASNEng)*

**Invited Guest Speakers:**

- **Honorable Dr. Arjun Karki, Chief Guest**, Nepalese Ambassador to the United States of America, Washington, D.C. (Invited Chief Guest)  
“Conference Remarks”

**Plenary Keynote Session**

9:15 AM - 10:30 AM

Conference Hall

**(Invited)**

**Session Chair: Ramesh B. Malla, Ph.D., F. ASCE, F. ASNEng**, Founding President, ASNEng; University of Connecticut, Storrs, CT.

9:15 AM - 9:40 AM

***“Sustainable Development and/or NCDC/EWB”***

**Dr. Barry Bialek, M.D.**, Founder and Executive Director, Nepal Community Development Foundation, Boulder, CO

9:40 AM - 10:05 AM

***“USGS response to the 2015 Gorkha earthquake: data products and current projects”***

**Emily Wolin, Ph.D.**, Research Geophysicist, USGS, CO

10:05 AM - 10:30 AM

***“Urban Resilience Planning In Seismic Settings – Applications for Nepal from Salt Lake City and Oakland”***

**Mathew Francis, P.E., M. ASCE, F. EERI** Southwest Area Water/Wastewater Department Manager, Infrastructure Resilience / DRR / Geohazards, AECOM, Salt Lake City, UT

**Break**

10:30 AM – 10:45 AM

**Technical Session I**

10:45 PM – 12:15 PM

Conference Hall

*(Regular)*

**Session Title: *Advances in Infrastructure Research, Development, Design, and Analysis***

**Session Chair(s): Sukh Gurung, Ph.D., P.E., Langan Engineering, Manhattan, NY; and Prakash Kaini, Ph. D., P.E., Aurora Water, City of Aurora, CO**

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

10:45 AM – 11:00 AM

***“Analysis of Square and Heliogyro Sails for Space Travel Using Solar Pressure”*** by

**Ramesh B. Malla, Ph.D., F. ASCE, F. ASNEng** and **Alexander Gonzalez**, University of Connecticut, Storrs, USA.

11:00 AM – 11:15 AM

***“Retrofitting Techniques for Historic Pagoda Temples in Nepal”*** by **Nitisha Parajuli** and **Brad Cross, Ph.D.**, Southern Illinois University, Edwardsville, IL.

**11:15 AM – 11:30 AM**

*"Positive Train Control Technology in the United States"* by Yudhishir Paudel, Transportation Technology Center, Inc., Pueblo, CO.

**11:30 AM – 11:45 AM**

*"Building a More Resilient Nation: An Overview of Hazard Mitigation Planning in the United States"* by Lalit Jha, P.E., D.WRE, and Jeff Henson, JEO Consulting, Lincoln, NE.

**11:45 AM – 12:00 PM**

*"Advancement in Deep Foundation Design and its Suitability for Nepal Soils"* by Upendra L. Karna, D. Eng., P. E., U&S Engineers, PC, Lambertville, NJ.

**12:00 PM – 12:15 PM**

*"A u-p Finite Element Formulation for the Analysis of Flexible Pavement"* by Kaushal Jha, Ph.D., P.E., Raba Kistner Consultants, Houston, TX.

**Luncheon**

**12:15 PM – 1:05 PM**

*Conference Hall*

**Technical Session II**

**1:05 PM – 2:20 PM**

*Conference Hall*

*(Regular)*

**Session Title: *Recent Advances in Information Technology and Education***

**Session Chair(s): Deb Jaisi, Ph.D., Associate Professor, University of Delaware; Naveen Dutta, Xilinx, Longmont, CO**

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

**1:05 PM – 1:20 PM**

*"Application of Remote Sensing Technology in Natural Resources Management"* by Mahesh Pun, and Denis Muttibwa, Long Spring Inc., Lincoln, NE.

**1:20 PM – 1:35 PM**

*"Developments and Security Challenges in the Internet of Things"* by Jiwan Ninglekhu, Ph.D, InterDigital, Conshohocken, PA.

**1:35 PM – 1:50 PM**

*"Trend of Engineering Education in Nepal, Ananda M Paudel, Ph. D., Metropolitan State University of Denver, Prakash Bahadur Adhikari, P.E, Pokhara University, and Tri Ratna Bajracharya, Ph. D., Institute of Engineering, Tribhuvan University, Nepal.*

**1:50 PM – 2:05 PM**

*"A Sketch of Dynamics of Open and Evolving Human Society" by Ram C. Poudel, and Jon G. McGowan, University of Massachusetts, Amherst, MA.*

2:05 PM – 2:20 PM

*“Blockchain Technology Genesis Supply Chain Aviation”* by *Achyut Shrestha*, Blockchain Development Director, GSCplatform.io, Phoenix, AZ

**Break**

2:20 PM – 2:30 PM

**Technical Session III**

2:30 PM – 3:15 PM

Conference Hall

(Regular)

**Session Title: *Recent Advances in Energy Engineering and Sciences***

**Session Chair(s): Bheem P. Kattel, Ph.D., CPE, Highland Ranch, CO; and Kaushal Jha, Ph.D., P.E., Raba Kistner, Houston, TX;**

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

2:30 PM – 2:45 PM

*“Calculation of the Fan Energy Index”* by *Madan Baral, P.E.*, Revcor Inc., Carpentersville, IL.

2:45 PM – 3:00 PM

*“Residential Energy Modelling and Analysis of Laprak Settlement in Nepal”* by *Cameron W. Hume, Isaiah Fleming, Ahmad Abuhijleh*, and *Ananda Paudel, Ph.D.*, Metropolitan State University of Denver, Denver, CO.

3:00 PM – 3:15 PM

*“Integrated Management of Renewable Energy Resources with Optimized Clusters of Smart Microgrids”*, by *Surya Lamsal*, New York University, New York, NY.

**Break**

3:15 PM – 3:25 PM

**Technical Session IV**

3:25 PM – 4:25 PM

Conference Hall

(Regular)

**Session Title: *Advances in Water Resources and Environmental Engineering***

**Session Chair(s): Lalit Jha, P.E., JEO Consulting, Lincoln, NE Subash Paudel, P.E., Worleyparsons, Houston, TX**

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

3:25 PM – 3:40 PM

*“Impact of subsurface drainage on water yield for typical soil and weather in eastern South Dakota”* by *Govinda Karki*, Louis Berger, *Chris Hay, Ph. D.*, Iowa Soybean Association, *Todd Trooien, Ph. D.*, South Dakota State University, and *Jeppe Kjaersgaard, Ph. D.*, Minnesota Department of Agriculture, MN.

3:40 PM – 3:55 PM

*“Aurora Water System – An Overview”* by *Prakash Kaini, Ph. D., P.E.*, and *Shiva Sapkota*, Aurora Water, City of Aurora, CO.

3:55 PM – 4:10 PM

"Advanced Real-Time Hydraulic Modeling at San Jose Water" by Akshaya Niraula, Innovyze Inc, and Irene Suroso, San Jose Water, CA.

4:10 PM – 4:25 PM

"Phosphorus removal from wastewater treatment plants: Is the state of the art practice still effective?" by Yuge Bai, Jiying Li, Lisa Stout, Gulcin Tosun, and Deb Jaisi, Ph. D., University of Delaware, Newark, DE.

**Break**

4:25 PM – 4:40 PM

**Hackathon Result and Awards**

4:40 PM – 5:10 PM

*Conference Hall*

**Networking Social**

5:10 PM – 6:00 PM

*Conference Hall*

**Dinner & Cultural Program**

6:00 PM – 9:30 PM

*Conference Hall*

### **Sunday, July 22, 2018**

**Light Breakfast**

8:00 AM – 8:30 AM

*Conference Hall*

**ASNEngr Annual Membership Meeting**

8:30 AM – 10:30 AM

*Conference Hall*

*(All non-member conference attendees welcomed as Guests)*

**Conference Closure**

10:30 AM

*Conference Hall*

**Sight-seeing of Greater Denver Area**

11:00 AM  
*(For those interested)*

*Conference Hall*



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

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**Thakur Dhakal, P.E.; Technical Chair**  
Fairfax County Government, Fairfax, VA, ([tdhakal@gmail.com](mailto:tdhakal@gmail.com))  
**Rabin Bhattarai, Ph.D.; Technical Co-Chair**  
University of Illinois, Urbana-Champaign, IL (E-mail: [BhattaraiRabin@gmail.com](mailto:BhattaraiRabin@gmail.com))

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Denver, CO ([a\\_paudel@yahoo.com](mailto:a_paudel@yahoo.com))

**Roshan Prasain, Local Committee Co-Chair**

Aurora, CO

**Naveen Dutta, Local Committee Co-Chair**

Thornton, CO

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*American Society of Nepalese Engineers (ASNEng) - a non-profit organization established in September 2007 with IRS 501(c)(3) tax exempt status – aims at providing a common platform for people of Nepalese background and their friends, in engineering and closely related scientific and technical areas to come together, exchange ideas, and support each other for their and the larger society's common good and benefits. It operates for engineering, scientific and technological research and educational purposes. The Society also strives at promoting engineering, scientific, and technological advancement in Nepal. The Membership application form and detailed information on ASNEng and updates on its recent activities can be found at <http://www.ASNEng.org>.*

**Conference Websites**

For more information on the conference, please visit the following websites:

[www.ASNEng.org](http://www.ASNEng.org) (“Annual Conferences and Meetings”)

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