



### Honor/ Award

- Prof. Dr. Bhola Thapa, Member TTL-OMC was felicitated on 25<sup>th</sup> Annual General Meeting (AGM) of Nepal Micro Hydropower Development Association (NMHDA) for his outstanding contributions to the hydropower sector on 13<sup>th</sup> April, 2018 at Hotel Annapurna, Kathmandu.
- Honorable Minister for Energy, Water Resources & Irrigation of Nepal Government Mr. Barsha Man Pun as the chief guest in the program handed over the letter of award to the awardee.

### Energize Nepal Project

- Design and modelling of flow calibration setup.
- New procurement plans of equipments, tools, & materials finalized and literature review and market study on progress.
- Development of LabVIEW program for instrumentation purpose.
- Indicator-wise progress tracking report of the project submitted to ENEP office.
- Technical report on PC controlled valve operation system prepared and is under discussion.

### Lab Activities

- Installation of 3 guide vane test rig in the lab.
- Design and printing of low head Francis runner blade for manufacturing.
- Project proposal defense for first year hydropower subdivision undergraduate students.
- Conduction of hydraulics laboratory for third year hydropower subdivision undergraduate students.
- Mr. Saroj Gautam, Research Assistant in ENEP project at TTL presented his MS by research proposal on the topic "Francis turbine without guide vanes for sediment affected projects" on 29<sup>th</sup> April at DoME.

### Activities of ENEP students

- Numerical analysis of Francis runner of Jhimruk hydropower with different guide vane profiles for better sediment handling.
- Paper presentation in CRHTVIII'18 symposium on "Effects of guide vane profiles on performance of Francis runner".



### Workshop/Visit

- Dr. Biraj Singh Thapa, Faculty Incharge- TTL participated on [Asia-Pacific Water Leadership Programme](#) from 8-19 April in Australia co- organized by ICIMOD and ICE WaRM.
- Dr. Hari Pd. Neopane , HoD, DoME attended [Erasmus+ project management meeting](#) at College of Science & Technology, Phuentsholing, Bhutan from 10-14 April.
- TTL participated on [knowledge sharing event](#) on “Opportunity and challenges in grid connection of MHP” & “Renewable Energy development under federal context” organized by NMHDA on 13<sup>th</sup> April in Kathmandu.
- Mr. Dadi Ram Dahal, ENEP student visited the [manufacturing companies](#) involved in hydropower business viz., Nepal Hydro & Electric Limited (NHE), North hydro & Engineering Pvt. Ltd., Cream Hydel, Mega Hydro & Engineering and Thapa Engineering Industries Pvt. Ltd. all situated in Butwal as a part of project and his academic works from 5-8 April to know the [status & prospects of turbine manufacturing facilities in Nepal](#).

### Publications

- Biraj Singh Thapa, Ole Gunnar Dahlhaug, Bhola Thapa, “[Flow measurements around guide vanes of Francis turbine: A PIV approach](#)”, *Renewable Energy* (2018), Vol. 126, 177-188.
- Sailesh Chitrakar, Hari Prasad Neopane and Ole Gunnar Dahlhaug, [A Review on Sediment Erosion Challenges in Hydraulic Turbines](#), *Sedimentation Engineering*, InTechOpen, ISBN: 978-1-78923-003-1, 2018.

### Lab Visits

- Visit by Joe Butchers, student from [Bristol University](#) on 3-6 April for the lab testing preparation of pico-hydro Turgo turbine from PEEDA.
- Visit by Mr. Jeetendra Kumar Gurung, Chief Executive Engineer, [Maya Khola Hydropower Company Ltd.](#) (developer of 14.9 MW Maya Khola HEP) on 6<sup>th</sup> April.
- Visit by Lukas Wogerbauer, Project Director, [WWS Wasserkraft GmbH](#), turbine manufacturing company from Neufelden, Austria on 6<sup>th</sup> April.
- Visit by the delegate from [Rainpower Hangzhou Company](#), Zhejiang, China on 19<sup>th</sup> April.