

MONTHLY BULLETIN

TURBINE TESTING LAB

JUNE, 2022

Participation in IAHR 2022 conference organized by NTNU in Trondheim from 26 June - 1 July 2022 (<https://www.ntnu.edu/iahr2022/iahr2022>).

List of participation

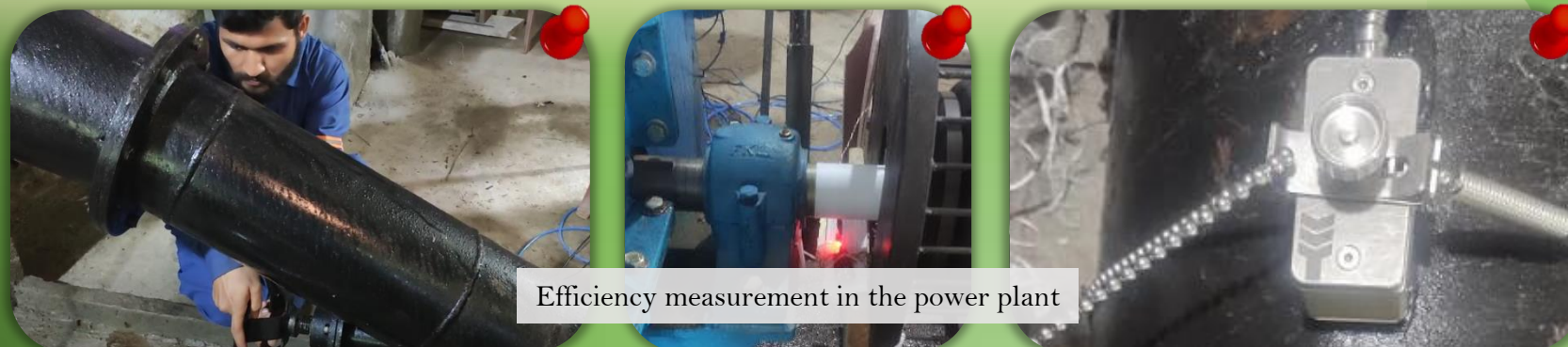
- 1) Heat treatment optimization of 13cr4ni stainless alloy used as hydro turbine material - **Mr Dadi Dahal**
- 2) Experimental analysis of a centrifugal pump in pump mode and turbine mode - **Mr Nischal Pokharel**
- 3) Development of a test rig for investigating the performance of a model Francis turbine - **Dr Ram Lama**
- 4) Optimization of Francis turbine runner for variable speed operations with minimization of sediment erosion - **Mr Amul Ghimire**
- 5) Problem identification and condition monitoring status of Nepalese power plants - **Mr Prajwal Sapkota**
- 6) Design and development of non-recirculating type erosion test setup for hydraulic turbines - **Mr Aman Kapali**
- 7) Application of hydro-abrasive erosion model from IEC 62364:2019 standard in Francis turbines - **Mr. Nirmal Acharya**

Session chair by Prof. Hari Prasad Neopane under following themes:

Pump turbines, energy storage and flexibility

Computational fluid dynamics and hydraulic turbines

Testing of Turgo turbines (27 kW) in Sanghu, Taplejung on June 16-20 by Mr. Prajwal Sapkota and Mr. Bhuwan Bhattarai



Efficiency measurement in the power plant



Publication of the proceedings of IAHR-Asia 2021 in IOP Journal of Earth and Environment Science:

Link of the publication

<https://iopscience.iop.org/issue/1755-1315/1037/1?fbclid=IwAR0W0ePnzPZ2ZaKE3g6zv3eGUzPrwH6UNEVFqQRa-Kl8eW6yYR-kCyuBsNI>

The conference was hosted by TTL on November, 2021