

TECHNICAL SESSION-A: ACOUSTIC AND DILUTION METHODS OF DISCHARGE MEASUREMENT

Oct 22, 2010 (Friday) 09:00 to 11:00 hrs

1.	Hydro Power Development in India <i>Praveen Saxena, and Arun Kumar</i>
2.	Accuracy of an Absolute Method used for Relative Measurements: Study of an Acoustic Transit Time Method <i>Urban Andersson, Niklas Dahlbäck, Per Sundqvist</i>
3.	Optimization of the ADM by Adaptive Weighting for the Gaussian Quadrature Integration <i>Peter Gruber, Thomas Staubli, Thomas Tresch, Fabian Wermelinger</i>
4.	Improvements to the Accuracy of Discharge Measurements by Acoustic Scintillation Resulting from Revisions to Data Processing Procedures <i>D. D. Lemon, D. R. Topham, D. Billenness</i>
5.	Flow Measurement in Hydroelectric Stations using Tracer Dilution Method – Case Studies <i>U. Muthukumar, Jacob Chandapillai, S. Saseendran</i>
6.	Performance Testing of a Low Head Small Hydro Power (SHP) Plant-Zho Suwei (Taiwan) –a Case Study, <i>Santosh Ghosh, Sudhir Mali and Jagadish T. Kshirsagar</i>

TECHNICAL SESSION-B: PRESSURE-TIME METHOD OF DISCHARGE MEASUREMENT

Oct 22, 2010 (Friday) 11:30 to 13:00 hrs

1.	The Pressure-Time Measurements Project at LTU and NTNU <i>Pontus P. Jonsson, Jørgen Ramdal, Michel J. Cervantes, Ole G. Dahlhaug, Torbjørn K. Nielsen</i>
2.	Uncertainties for Pressure-Time Efficiency Measurements <i>Jørgen Ramdal, Pontus P. Jonsson, Ole Gunnar Dahlhaug, Torbjørn K. Nielsen, Michel Cervantes</i>
3.	Selected Problems in Calculation Procedures for the Gibson Discharge Measurement Method <i>Adam Adamkowski, Waldemar Janicki</i>
4.	On Site Pressure Pulse Measurement of Hydraulic Machines <i>S. Rammohan, S. Manikandan, S. Saseendran</i>

TECHNICAL SESSION-C: MISCELLANEOUS TOPICS

Oct 22, 2010 (Friday) 14:00 to 16:00 hrs

1.	Smart Rehabilitation Project of 7 Small HPP's <i>Petr Ševčík, Alois Krejčí</i>
2.	Development and Testing of a Cross Flow Turbine <i>A. Tamil Chandran, G. Anil, Jacob Chandapillai</i>
3.	Silt Monitoring via Ultrasonic Signal Analysis <i>Bruno Lüscher, Peter Gruber</i>
4.	Center of Excellence at Kathmandu University for R&D and Test Certification of Hydraulic Turbines <i>Biraj Singh Thapa, Bhola Thapa, Ole G. Dahlhaug</i>
5.	Development of LabVIEW based Integrated Data Acquisition System for Pump as Turbine Generator Unit Performance Evaluation <i>Raj Kumar Viral, S.N. Singh</i>
6.	Low Cost ROV for Hydraulic Measurements and Navigation within the Canals/Rivers <i>K. S. Nagla, Moin Uddin, Dilbag Singh</i>

Poster Presentation (Exhibition Area) The Calibration Laboratory for hydrometric measuring instruments of the Swiss National Hydrological Survey by *Thomas Schott*.

TECHNICAL SESSION-D: EFFICIENCY MEASUREMENT BY THERMODYNAMIC METHOD

Oct 23, 2010 (Saturday) 09:00 to 11:00 hrs

1.	Uncertainty and Performance of a Low Head Thermodynamic Measurement <i>Jørgen Ramdal, Atle Lundekvam, Eirik Bøkkø, Ole G. Dahlhaug, Torbjørn K. Nielsen</i>
2.	Measurement of Turbine Efficiency by Thermodynamic Method for Field Acceptance Test of Hydro Turbine and Comparison with Model Test Result <i>Mukesh Mangla, Nitin Khodre</i>
3.	Corrective Terms of Thermodynamic Efficiency Measurements <i>André Abgottspon, Marc Briggeler, Thomas Staubli</i>
4.	IEC 60041–1991, “Field Acceptance Tests to Determine the Hydraulic Performance of Hydraulic Turbines, Storage Pumps and Pump-Turbines”. Clause 14 “Thermodynamic Method for Measuring Efficiency” Comments <i>Harald Hulaas, Leif Vinnogg</i>
5.	Efficiency Measurement of Hydro Machine by Thermodynamic Method <i>Patil Shantaram. S., H. K. Verma, Arun Kumar</i>
6.	Water to wire efficiency measurements in small hydroelectric units by means of thermodynamic and “thermo-calorimetric” method <i>Fabio F. Muciaccia*, Gianalberto Grego*, Paolo Ciolli*, Arno Dossi*</i>

TECHNICAL SESSION-E: NEW EFFICIENCY MEASURING TECHNIQUES

Oct 23, 2010 (Saturday) 11:30 to 13:00 hrs

1.	A New Method for Continuous Efficiency Measurement of Hydraulic Turbines <i>Jonathan Nicolle, Gilles Proulx</i>
2.	Prototype Hill Chart Testing of a Saxo Unit <i>Emmanuel Côté, Éric Cloutier</i>
3.	On the Use of Spiral Piezometer Tap Calibration Equations as a Transfer Standard between Absolute Discharge Measurement <i>D. R. Topham</i>
4.	3-Dimensional Field Measurements in Short Intakes using an Acoustic Doppler Profiler <i>Dr J Skripalle</i>
5.	An Efficiencies’ Comparison Concerning the Energy Losses between inclined Submerged and Free Water Outflows Downstream of a Hydropower Plant <i>D. Dimitriou, J. Demetriou, E. Retsinis</i>

TECHNICAL SESSION-F: CFD AND NUMERICAL ANALYSIS

Oct 23, 2010 (Saturday) 14:00 to 15:30 hrs

1.	Aspects of the numerical simulation of the flow in penstocks <i>E. Casartelli, L. Roux, N. Ledergerber</i>
2.	Investigation of Flow Profile in Open Channels using CFD <i>B. K. Gandhi, H.K. Verma, Bobby Abraham</i>
3.	Hydraulic Performance of Elbow Draft Tube for different Geometric Configurations using CFD <i>Vishnu Prasad, Ruchi Khare, Abhas Chincholikar</i>
4.	CFD Approach for Prediction of Efficiency of Francis turbine <i>Sanjay Jain, R. P. Saini, Arun Kumar</i>

Note: Each presenter is expected to present through power point slides for 12 to 15 minutes followed by 5 to 8 minutes of discussion.