

**INTERNATIONAL CONFERENCE ON HYDROPOWER FOR
SUSTAINABLE DEVELOPMENT
DURING FEB 05 – 07, 2015 AT DEHRADUN**

Programme

	Date, Time and Session
	Feb 05, 2015 Thursday
	0930 – 1100 hrs:
	Registration – Tea
	1100 – 1300 hrs:
	Presentation by Exhibitors
	<ul style="list-style-type: none"> • UNIDO • Hydrovision GmbH • Jash Engineering Ltd., Indore • Prakruti • Industrial Processors & Metllizers (P) Ltd • GoGoal Hydro Power Pvt. Ltd. • GIZ • Kirloskar Brothers Limited • Ytek Controls • Irrigation Workshop Uttarakhand • Alternate Hydro Energy Centre IIT Roorkee • Voith Hydro Pvt. Ltd.
	1300: 1400 hrs:
	Lunch
	1400 – 1500 hrs:
	Inaugural session and opening of Exhibition
	<ul style="list-style-type: none"> • Arrival of Chief Guest and opening of the exhibition • Presentation of bouquet at Dias and Lighting of Lamp • Welcome and background of the conference – <i>Dr Arun Kumar, Chair Professor (Renewable Energy) and CSO and organizing Secretary</i> • About Uttarakhand and expectations from the Conference – <i>Dr Umakant Panwar, Secretary (Power), Govt. of Uttarakhand</i> • Hydropower Global Scenario – <i>Mr Simon Howard, International Hydropower Association, London, United Kingdom</i> • Govt of India Plans for Hydropower as renewable Energy – <i>Dr P Saxena, Advisor (SHP), Ministry of New and Renewable Energy</i> • Remarks – <i>Prof SP Gupta, IITR, Chairman Conference Advisory Committee</i> • Inauguration and Address – <i>Mr N Ravi Shankar, Chief Secretary, Govt. of Uttarakhand</i> • Vote of Thanks – <i>Mr Ashish Joshi, Director UREDA</i>
	1500 – 1530 hrs:
	Tea Break
	1530 – 1730 hrs:
	TECHNICAL SESSION – I: Policies and Financial Options

<i>Mr C S Sharma, Member, UERC</i>	
1.	Progress with the Hydropower Sustainability Assessment Protocol <i>Simon Howard</i>
2.	Hydropower Development in India <i>PK Shukla</i>
3.	Small Hydro Development Building Positive Relationship With First Nations Stakeholders-Outlook From Saskatchewan, Canada <i>Ranjith Narayanasamy</i>
4.	Policies, Development and Priorities of Hydropower Projects for Sustainable Development <i>G.P. Patel and Sandeep Singhal</i>
5.	Hydropower for Energy Storage and Balancing Renewables <i>Atle Harby, Julian Sauterleute, Anund Killingtveit and Eivind Solvang</i>
6.	Challenges and Issues Small Hydro Power <i>Arun Sharma</i>
7.	Small Hydro Programme in India <i>Bhuwanesh Kumar Bhatt</i>
February 06, 2015 (Friday) 0900 – 1100 hrs: TECHNICAL SESSION – II: Hydrology, Flood And Sediment Management <i>Dr PK Pande – Chair</i> <i>Dr T Staubli – Co chair</i>	
8.	Sediment Management in Hydropower Plants – An Overview <i>P.K. Pande</i>
9.	Sedicon Sluicers as Effective Method of Sediment Removal From Desilting Tanks and Chambers <i>Tom Jacobsen and P.K. Sood</i>
10.	Analysis of Multi-Frequency Backscattering Signals for Sediment Concentration Measurements <i>T. Hies, H. H. Nguyen and J. Skripalle</i>
11.	A Field Study of Hydro-Abrasive Erosion in the Swiss ALPS <i>Thomas Staubli</i>
12.	Prospects of Developing Pumped Storage Projects Utilising the Reservoir of Existing Hyropower Project in the State of Uttarakhand <i>Rajendra Chalisgaonkar and Mukesh Mohan</i>
13.	An Accelerated Erosion Wear Test Rig For High Impact Velocities <i>Bhupendra K. Gandhi</i>
14.	Developing a test rig to measure hydro-abrasive erosion in Pelton turbine <i>Rai Anant K., Kumar Arun and Staubli Thomas</i>
	1100 – 1130 hrs
	Tea Break
1130 – 1330 hrs TECHNICAL SESSION – III: Recent Trends in Hydro Generating Equipment <i>Mr RN Misra, CMD, SJVN</i>	

<i>Mr PK Shukla, CEA</i>	
15.	HVOF Coatings To Combat Hydro Abrasive Erosion <i>DA Karandikar</i>
16.	Using Polyurethane to Reduce the Production Cost of Hydrokinetic Turbine Foils <i>David Norta, Christoph Lanser, Jürgen Sachau and H.-J. Allelein</i>
17.	Innovative Approach to Minimize Silt Erosion in Hydro Turbines <i>Mukesh Mangla</i>
18.	Innovative Design Features of Turbines for Hydro Projects Located in Himalayan Region <i>C K Jain</i>
19.	Andritz Green Kaplan Technology – Basics of Water Filled Runner Design <i>Pankaj Agarwal</i>
20.	Numerical Simulation for Effect of Splitters on Performance of ELBOW Draft Tube <i>Ruchi Khare, Vishnu Prasad and Manish Sharma</i>
21.	Silt Erosion <i>G.P.Patel, Purushottam Singh, Pankaj Kulshreshtha, Vivek Atreya, and Jaipal Singh</i>
	1330 – 1430 hrs: Lunch
1430 – 1600 hrs	
TECHNICAL SESSION-IV: Micro Hydro and Ultra Low Head <i>Dr Harald Richter, Programme Head, IGEN-RE, GIZ, Delhi – Chair</i> <i>Dr RP Saini, AHEC IIT Roorkee – Co Chair</i>	
22.	Hydrokinetic Energy for Enlightening the Future of Rural Communities in Uttarakhand <i>Udit Tewari, Karl Kolmsee And David Norta</i>
23.	Sustainable Hydropower toward Community Development: A Case Study of Japanese Rural Area <i>Tokihiko Fujimoto, Shizuoka University, Japan</i>
24.	An Innovative Solution for Harnessing Low Head Small Hydro Potential <i>Abhishek Swarnkar (Voith Hydro, Noida), Joerg Lochschmidt and Mandar Pachegaokar</i>
25.	Re-Build up Small Scale Hydropower Technologies in Japan by Local Industrial Power <i>Yoshinobu Watanabe (Nakayama ironworks Co Ltd, Japan), Youichi Kiuchi, Mina Takagi, Tokihiko Fujimoto, Yukihiro Shimatani</i>
26.	A Green Energy Initiative with Community Participation In Micro/Mini Hydro Power Projects <i>Arun Kumar Tyagi and Abhishek Pandey, (UREDA, Uttarakhand)</i>
27.	Identifying Policy Inter-Linkages For The Ultra-Low-Head Micro Hydropower Sector Development Towards Low Carbon Energy Technology Deployment In India <i>Kentaro Aoki and Kashinath Vajpai (UREDA, Uttarakhand)</i>
	1600 – 1615 hrs: Tea
1615 – 1745 hrs:	
TECHNICAL SESSION-V AND PANEL DISCUSSION : Geological And Seismological	

<i>Surprises In Hydropower Development And Mitigation</i> <i>Mr D K Sharma, Chairman & Managing Director, HP Power Corp. Ltd., Shimla</i>	
28.	Challenging Sites & Hydro Tunnelling Choice of Technologies and Contract Implications <i>Harald Wagner (World Bank Expert, Thailand)</i>
29.	Sustainable Development of Hydro Power- Key Solutions to Challenges & Perceptions for Successful Implementation <i>Anupam Mishra, Amit Gupta (WAPCOS, Bhutan) Adarsh Kumar S</i>
30.	Experience Sharing by CPSUs, SPSUs, and Private Hydro Power Developers <i>Mr R N Misra – CMD, SJVN Ltd.</i> <i>Mr BCK Mishra – Executive Director, UJVNL</i> <i>Mr SP Bansal – AVP, LNJ Bhilwara</i> <i>Mr Arun Sharma – President, Hydropower Association</i> <i>Mr K. Tiewsoh – Meghalaya Power Corp. Ltd.</i> <i>Mr GCS Gaur – Consultant</i>
Feb 07, 2015 Saturday 0900 – 1030 hrs: <i>TECHNICAL SESSION – VI: Challenges in Hydropower Development</i> <i>Dr RS Tolia, Former Chief Secretary and Commissioner Information – Chair</i> <i>Mr B K Bhatt, Director (SHP), MNRE, New Delhi – Co chair</i>	
31.	Address by Dr Chandra Bhushan, Centre for Science and Environment, New Delhi
32.	Address by Dr Anil Joshi, Consultant, GIZ
33.	Address by Sh. Avdhash Kaushal, Rural Litigation & Entitlement Kendra
34.	Hydro Power Development in Arunachal Pradesh- Issues <i>S K Singal, Arun Kumar, Vinit Kumar Singh, M S Verma and Abhilasha Jain</i>
35.	Revenue Enhancement From Multi Unit Hydropower Plant <i>Shambhu Ratan Awasthi, Vishnu Prasad, Saroj Rangnekar and Shiv Vishal Pandey</i>
36.	Performance Study of Kotabagh Micro Hydropower Project of Uttrakhand <i>Jyothi Prasad and H J Shiva Prasad</i>
	1030 – 1100 hrs Tea
1100 – 1300 hrs: <i>TECHNICAL SESSION – VII: Environmental and Socio Issues and Relevance in Hydropower Development</i> <i>Dr Sharad Singh Negi, Addl. Director General (Forests), MoEF&CC, Delhi – Chair</i> <i>Dr S K Singal, AHEC IIT Roorkee – Co chair</i>	
37.	Environmental Design of Hydropower: Research within Centre for Environmental Design of Renewable Energy <i>Atle Harby, Centre for Environmental Design of Renewable Energy, Trondheim, Norway</i>
38.	Hydropower for Sustainable Development – Social Aspects <i>Stephen Sparkes, Statkraft A S, Oslo, Norway</i>

39.	Concept of Keystone Species and Assessment of Flows (Himalayan Segment-Ganga River) <i>R.P. Mathur and Vishal Kapoor</i>
40.	Institutional & Policy Framework for a Sustainable Environmental Flow regime for Development of Hydropower Sector in India <i>Tapas Paul (World Bank, New Delhi) and Pyush Dogra, World Bank, New Delhi</i>
41.	Public Perception And Environment Mitigation of Hydro Power for Sustainable Development <i>Anant Bhaskar Garg, R. P. Jamloki, Manisha Garg</i>
42.	Advanced technologies in construction of hydropower projects <i>Pankaj Punetha, Chief Geology, Mangdechhu Hydroelectric Project, Bhutan</i>
	1300 – 1345 hrs: Lunch
	1345 – 1515 hrs: TECHNICAL SESSION-VIII: Impact of Natural Disaster on Hydropower Development <i>Mr Indu K Pande, Former CS & Advisor, Govt of Uttarakhand</i>
43.	Facing the Flood Fury “Overtopping of Dam of 900 MW Baglihar HEP in J&K” A Case History <i>Zahoor Ahmad Chat</i>
44.	Assessment of High Flood Discharge in A Post-Flood Scenario – A Case Study from Uttarakhand <i>Dweependra Nath Kalita and Baijayanta Bhattacharjee</i>
45.	Sustainable Development of Small Hydropower Plant: Case Study of Aleo SHP (3 MW) and Aleo-II SHP (4.8 MW) <i>AK Goel</i>
46.	Mitigation of Hydro Project Development Risk - Insurance Need <i>Alok Choubey</i>
47.	Uncertainties In Sustainable Development of Hydropower Projects In Uttarakhand (India) <i>ML Kansal and Sanchit Saran Agarwal</i>
48.	UJVNL Exposure- Mr Sandeep Singhal, Director (Projects), UJVNL Ltd.
	1515 – 1615 hrs: Concluding session <i>Mr Deepak Sanan, ACS, Himachal Pradesh Govt. – Chair</i> <i>Mr Indu K Pande, Former CS & Advisor, Govt of Uttarakhand</i> <i>Dr R S Tolia, Former Chief Secretary and Commissioner Information</i> <i>Mr Atle Harby, Centre for Environmental Design of Renewable Energy, Trondheim, Norway</i> <i>Dr N P Singh, Advisor, MNRE New Delhi</i> <i>Prof S P Gupta, IIT Roorkee</i> <i>Mr Asheesh Joshi, Director UREDA</i> <i>Mr Sandeep Singhal, Director (Projects) UJVNL</i> <i>Dr Arun Kumar, AHEC IIT Roorkee</i> - Message from Chief Minister – <i>Mr Asheesh Joshi</i>

- Presentation of draft recommendations – *Dr Arun Kumar*
- Observations by panelists
- Suggestions from participants
- Finalisation of recommendation
- Final remarks – *Mr Deepak Sanan*
- Vote of Thanks – *Mr Sandeep Singhal*

1615 hrs

Tea

departure for base