



RENTECH 2011

Symposium on Renewable Energy Technology

22 December 2011, CV Raman Auditorium
Kathmandu University, Dhulikhel, Nepal



The purpose of RENTECH symposium is to facilitate free interchange of ideas and experiences among the participants on renewable energy technologies being or been researched, developed, or deployed in Nepal. It may also include topics that might be vital for technology transfer. The symposium is being held for the first time and is planned as an annual event.

The symposium welcomes any interested audience

The registered or invited participants for this symposium are researchers, university/institution faculties, graduate students, representatives of various government, public, and private organizations, and related speakers/presenters/exhibitor/audience who have expressed interest in attending the symposium. The symposium call was made on 11 September 2011 and about 100 participants have been registered/invited. Only registered/invited participants can take part in organized facilities.

RenewableNepal Programme plans to publish a symposium compendium after the symposium is over.

Organized by:



R e n e w a b l e N e p a l

A Programme for Research Based Industrial Development in Nepal

Kathmandu University, Dhulikhel, Kavre, Nepal

<http://www.ku.edu.np/renewablenepal>; renewablenepal@ku.edu.np

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Symposium Outline

Topics and Speakers

Registration 09:30-10:00

Opening Session: 10:00-11:00

1. Opening of the symposium by Dr. Bhupendra Bimal Chhetri, Programme Manger, RenewableNepal
2. Guest speech by Mr. Devendra Adhikary, Alternative Energy Promotion Center, Nepal
3. Guest speech by Dr. Tri Ratna Bajracharya, Center for Energy Studies, Tribhuvan University, Nepal
4. "Research Based Industrial Development Projects in Renewable Energy supported by RenewableNepal: A midway assessment of achievements and challenges," Dr. Bhupendra Bimal Chhetri, Programme Manager, RenewableNepal.

Session on Bio-Energy: 11:30-13:10 Chair: Dr. Bim Prasad Shrestha, Kathmandu University

1. "Generation of Renewable Energy out of the Waste— Non-Timber Forest Biomass," Prof. Rhiddi Bir Singh, Research Center Applied Science and Technology, Tribhuvan University, Nepal.
2. "Some Highlights of Consumer Profile Database of Renewable Energy," Dr. Jyoti Upadhyaya, Dept. of Natural Sciences, Kathmandu University, Nepal
3. "Biogas: Option for Mitigation and Adaptation of Climate Change," Mohan Chand, Central Department of Environmental Science, Tribhuvan University, Nepal
4. "To Study the Potentiality of Agriculture Wastes as a Source of Xylose/Glucose for Production of Ethanol and Using it as Biofuel," Dr. Bhupal Govinda Shrestha, Department of Biotechnology, Kathmandu University, Nepal
5. "Hydrolysis of Cellulose and Xylan by Symbiotic Microbes Found in Gut of Termite," Subodh Kumar Upadhyaya, Department of Biotechnology, Kathmandu University, Nepal

Session on Hydro, Solar, and Wind: 14:30-16:10 Chair: Professor Ramesh Kumar Maskey, Kathmandu University

1. "Renewable Energy and Development," Amrit Abhamani Dhakal, Lotus Energy Pvt. Ltd, Nepal
2. "Technical Obstacles and Solutions on Small Scale Wind Power Development in Nepal," Pramod Ghimire, Kathmandu Alternative Power and Energy Group, Nepal
3. "An Integrated Design Tool for Large Wind Turbine Blades," Lars Frøyd , NOWITECH, Norway
4. "Some Applications of Computational Tools for R&D of Hydraulic Turbines," Biraj Singh Thapa, Kathmandu University, Nepal
5. "Case Study of Developing Pico Hydropower Project to Improve Living Standard of Rural Nepal," Biraj Dhungana, Kathmandu University , Nepal

Closing Session: 16:10-16:30

1. Symposium Appraisal by Session Chairs Dr. Bim Prasad Shrestha, Department of Mechanical Engineering and Prof. Ramesh Kumar Maskey, Department of Civil and Geomatics Engineering, Kathmandu University
2. Closing Remarks by Prof. Bhola Thapa, Dean, School of Engineering, Kathmandu University

Poster and Exhibition: 11:00- 14::00

1. "Investigation on Practical Realization of a Reactive Power Compensator for Grid Connected Wind Turbine Driven Induction Generator," Prof. Indraman Tamrakar, RTCU, Department of Electrical Engineering, Institute of Engineering, Tribhuvan University
2. "Application of Renewable Solid Fuel Alternative to the Imported Coal in Vertical Shaft Brick Kiln," Suyesh Prajapati , MinErgy Pvt. Ltd, Nepal
3. "Design, Fabrication and Test of a Biomass Gasifier for Small Size Petrol and Diesel Engines" Suraj Pandey, Kathmandu University, Nepal
4. "AC and DC Driver Circuit Design for Various WLED Lamps," Dipendra J. Mandal, Kathmandu University, Nepal
5. "Collaboration for Establishing Francis Turbine Manufacturing and Testing Facility in Nepal," Supriya Koirala, Kathmandu University, Nepal
6. "Use of Acetylenes as Alternative Fuel in SI Engine," Harihar Kuikel, Kathmandu University
7. "Mini-Grid", Vivek Bhandari, Kathmandu University, Nepal

