

About the Workshop

A Three days training workshop on "Making of Solar Cookers" is being organized by the Teaching-Learning Cell of Indian Institute of Technology (Banaras Hindu University) & Centre for Energy & Resources Development (CERD) during July 03 - 05, 2016. It is an interactive and participatory training workshop/course aimed at large-scale participation of B. Tech. students of any Institute within India, and for student of KV BHU, CHS BHU, V. K. M. Vidyalaya Rajghat Class 12th standard.

Main emphasize would be given to present the application for energy utilized at different solar cookers for Students and Indian villagers through awareness program. The program is also supported by Project Varanasi & CERD, IIT(BHU), Varanasi.

About Teaching-Learning Cell, IIT(BHU)

Teaching and learning processes exert to help faculty & instructors to modernize their teaching style, to scaffold concepts and information in a way that students can meaningfully take in, and to help students learn more deeply and retain what they have learned. As such, the TLC assume roles as educational change agents to attempt to help instructors with other problems that they might have, such as managing graduate students, designing courses, technical writing, trying novel teaching methods, and designing better assignments and exams. The cell addresses by providing support services for better learning and study skills including e-learning and similar movements.

Three days Workshop on Making of Solar Cookers

July 03 - 05, 2016

Introduction & Objective :

The **Sun** is a **star** at the center of the **Solar System**. Solar energy is the most readily available source of energy. It is free. It is also the most important of the non-conventional sources of energy, because it is non-polluting. Earth surface receives 1.2×10^{17} W of power from sun. Energy supplied by the sun in one hour is almost equal to the amount energy required by the human population in one year. Also to mention that the energy stored in **petroleum** and other fossil fuels is originally converted from sunlight by **photosynthesis** in the distant past.

Solar energy utilization has been of concern of many scientists in the recent years & in future due to its eco-friendly and availability in abundance. Indian govt. has released a solar mission in 2010 with the aim for developing various devices for the Indian masses at cheaper cost. Solar energy has been used as light, as heat, as electricity, as engine driver, as cooking application etc. Recently there are applications on devices of high efficiency solar energy usages. The proposed workshop would be focused on theory - practice aspects of solar cookers in use today including hand on practice.

About the Centre for Energy & Resources Development, IIT(BHU)

Centre for Energy and Resources Development is a Centre of Excellence of IIT (BHU), Varanasi funded by MHRD, Govt. of India. The centre was established on August 14, 2014 under FAST scheme of MHRD, New Delhi to undertake world-class research that integrates the scientific, technological, economic, policy and socio-technical aspects of energy to deliver key tools needed to enable, enhance and accelerate the transition toward sustainable energy systems. The centre is running its courses in different departments.



Speakers

- **Prof. Santosh Kumar** - *Coordinator TLC, Dept of Mech. Engg, IIT (BHU).*
- **Prof. S K Shukla** - *Coordinator CERD, IIT (BHU)*
- **Prof. P Ghosh**
Dept of Mech. Engg, IIT (BHU)
- **Dr. J V Tirkey**
Dept of Mech. Engg, IIT (BHU)

Program Shedule

Day 1: Program (9AM to 5 PM) - 03rd July

- Inaugural
- Lectures on various aspects of topics :
 - Introduction to Sun & Solar Energy & utilization
 - Thermal aspects of Cooking stuffs
 - Solar Cookers and applications
 - Design of Solar Cookers
 - Other applications of Solar Energy
- Lunch, tea etc.

Day 2: Program (9 AM to 5 PM) - 04th July

- Theory & Hands on Fabrication of Solar Cookers
- Lab on fabrication of Solar Cookers
- Lunch, tea etc.

Day 3: Program (9 AM to 5 PM) - 05th July

- Manufacturing of Solar Cooker
- Final assemblies of Solar Cookers
- Selecting Best cooker and the prizes-2 @ 5000/-
- Lunch, tea etc.
- Closure of the workshop

PATRON :

Prof. Rajeev Sangal
Director, IIT(BHU), Varanasi

CHAIRMAN :

Prof. G. V. S. Shashtry
Dean Academic Affair, IIT(BHU), Varanasi

COORDINATOR :

Prof. S. Kumar
Teaching-Learning Cell, IIT(BHU), Varanasi

Prof. S. K. Shukla
Centre for Energy and Resources Development,
Department of Mechanical Engineering,
IIT(BHU), Varanasi

Who should attend.....?

All year B. Tech. students of any Institute within India, Class 12th students of CHS, Kamachha, KV BHU and Vasant Kanya Maha Vidyalaya Rajghat, Varanasi.

Call for Registration

Participants willing to attend the workshop are requested to submit the completed registration form on Google form: through a link : <http://goo.gl/forms/M96eI2jEyP>

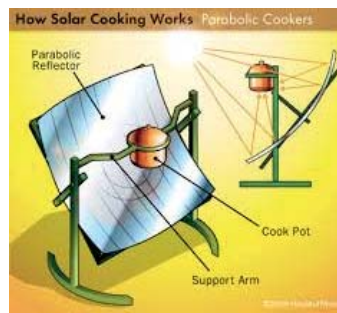
Registration Fee:

There is no registration fee to attend this workshop. Limited seats are available on first come first serve basis and Space (70 seats for B.Tech Students & 20 seats for School childrens) is limited.

Contacts :

Prof. Santosh Kumar
Professor in Mechanical Engineering Department
Indian Institute of Technology (BHU)
Varanasi-221005, India
e-mail:santosh.kumar.mec@iitbhu.ac.in

Prof. S. K. Shukla
Professor in Mechanical Engineering Department
Indian Institute of Technology (BHU)
Varanasi-221005, India
e-mail:skshukla.mec@iitbhu.ac.in



THREE DAYS WORKSHOP ON Making of Solar Cookers

03rd - 05th July, 2016



ॐ सहनाववतु, सह नौ भुनक्तु, सह वीर्यं करवावहै ।
तेजस्विनावधीतमस्तु, मा विद्विषावहै ॥
ॐ शान्तिः शान्तिः शान्तिः

Organised by

Teaching-Learning Cell
Indian Institute of Technology
(Banaras Hindu University)

&

Centre for Energy & Resources Development
Department of Mechanical Engineering
Indian Institute of Technology
(Banaras Hindu University)
Varanasi – 221 005

Venue : ABLT - 1, TLC, IIT(BHU)
&
CERD, IIT(BHU), Varanasi - 221005