REGISTRATION FORM

Two-Days Workshop

Solar Energy Utilisation (SUN)
for
Sustainable Development
(February 1st-2nd, 2018)

Name: _____

Designation: _____

Organization: _____

Address: _____

_____

_____

E-Mail: _____

Phone: _____

Mobile: _____

Fax: _____

Fees Payable to "Director, NEERI Nagpur"

Draft / Cheque No.: _____

Dated: _____

Drawn on: (Bank) _____

Rs. _____

Accommodation Required (Yes/No)
(Accommodation would be provided on sharing basis as per the current guest house charges and availability)

Signature of Applicant

Patron

Director, CSIR-NEERI, Nagpur

Convener

Dr. Sadhana Rayalu
Chief Scientist & Head
Environmental Materials Division
CSIR- National Environmental Engineering Research Institute (CSIR-NEERI)
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&

Dr. Amit Bansiwal
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Please send your registrations at:
sun.neeri@gmail.com ; Fax: 0712-2247828
OR
For more details and online registration visit
https://sunneeriworkshop.wixsite.com/sun2018

Environmental Materials Division
CSIR- National Environmental Engineering Research Institute (NEERI)
Nehru Marg, Nagpur – 440 020, India.

Two-Days Workshop

Solar Energy Utilisation (SUN) for Sustainable Development

1st -2nd February, 2018

at
Environmental Materials Division

CSIR- National Environmental Engineering Research Institute (NEERI)
Nehru Marg, Nagpur – 440 020, India

SOLAR ENERGY AND ITS APPLICATIONS

Solar energy is the largest source of all carbon-neutral energy sources. It is reported that more energy from sunlight strikes the Earth in one hour (4.3 × 1020 J) than all the energy consumed on the planet in a year (4.1 × 1020 J) (Report on the Basic Energy Sciences Workshop on Solar Energy Utilization, 2005). Solar energy is thus a compelling solution to our needs of energy which is projected to double by 2050 and to more than triple by the end of the century. Solar energy is readily available, abundant source of energy and is secure from geopolitical tension. It is clean and poses no threat to our environment through pollution or to our climate through greenhouse gases.

World demand for energy is enormous and solar energy has an important role to play in meeting this demand in a sustainable way. Each of the three generic approaches of solar energy conversion systems including solar electricity, solar fuels, and solar thermal systems has untapped capability well beyond its present usage. Delegates and participants shall be made conversant with the potential of all three approaches, as well as the potential of hybrid systems.

The participants and delegates shall be made conversant to the growing application of *solar energy not only for energy demands but also for environmental applications in water and wastewater treatment, rain water harvesting, clean air, medical application etc.*

OBJECTIVES

The solar energy park at CSIR-NEERI houses solar energy based exhibits to demonstrate its application for supply of cleaner energy as well as providing clean water and air. Thus, in order to generate awareness, it is proposed to hold workshop which would be interactive and participatory in nature. The objectives for establishing the solar park as well as initiating this workshop are furnished below :

- ✓ To impart awareness to general public, industrialists, students, visitors and beneficiaries about the potential of solar energy, its advantages, synergy with environment and its applications
- ✓ To strengthen knowledgebase on the subject of solar energy utilisation and bring out creativeness and innovativeness
- ✓ To demonstrate non-polluting solar energy based transport system by introducing solar powered electric transport system.
- ✓ To demonstrate the applications of solar energy conversion devices including solar electricity, solar fuels and solar thermal systems
- ✓ To demonstrate the applications of solar energy utilization for provision of clean air and water.
- ✓ To develop entrepreneurship by encouraging students, engineers and early start-up groups in participating in new and innovative product development programs.
- ✓ To provide hands-on training in handling exhibits/ products/ devices.

SOLAR EXHIBITS /DEMONSTRATIONS

- ☼ Solar Water Disinfection
- ☼ Solar Pasteurizers
- ☼ Solar Autoclave
- ☼ Nano-Solstill
- ☼ Nano-Water Heater
- ☼ Nano- Solar Dryer
- ☼ Nano -Solar Cooker
- ☼ Nano –SODIS bottles
- ☼ Solar Sterilisation
- ☼ Solar Steam generators
- ☼ Solar Fuels & fuel cell
- ☼ Solar PV based water treatment
- ☼ Photocatalysed water electrolyser
- ☼ Solgas generation
- ☼ Photoelectrochemical hydrogen generation cell
- ☼ Broad-band adsorption cell
- ☼ PV & Solar System

KEYNOTE SPEAKERS (Tentative List)

- ➢ **Dr. Rakesh Kumar,** Director, CSIR-NEERI, Nagpur
- ➢ **Prof. D.D. Sarma,** Distinguished Scientist, IISc, Bengaluru
- ➢ **Prof. S. Sampath,** IISc, Bangalore
- ➢ **Prof. Giridhar Madras,** IISc, Bangalore
- ➢ **Dr. T. Srinivas,** Professor, VIT University, Vellore
- ➢ **Dr. S. Sakthivel,** ARCI, Hyderabad
- ➢ **Dr. B.V. Sarada,** ARCI, Hyderabad
- ➢ **Er. Deepak Khandekar,** ILD,SDC Centre, Jaisalmer

FACULTY

CSIR- NEERI Nagpur

- ➢ **Dr. Sadhana Rayalu**, Chief Scientist
- ➢ **Dr. Atul Vaidya**, Chief Scientist
- ➢ **Dr. Nitin Labhsetwar**, Senior Principal Scientist
- ➢ **Dr. Amit Bansiwal**, Principal Scientist
- ➢ **Er. S. S. Waghmare,** Principal Scientist
- ➢ **Dr. G. Saravanan,** Senior Scientist
- ➢ **Dr. Tanvir Arfin,** Scientist
- ➢ **Er. Shilpa Kumari,** Scientist
- ➢ **Dr. Kavita Gandhi,** Scientist
- ➢ **Er. Ankit Gupta,** Scientist
- ➢ **Dr. Avneesh Anshul,** Scientist Fellow
- ➢ **Dr. Pratap Reddy,** CSIR Pool Scientist
- ➢ **Dr. Rita Dhodapkar,** Senior Technical Officer
- ➢ **Mr G. K. Hippargi ,** Technical assistant

FACULTY

- ➢ **Er. Sudhir Sarawat**, Director, Horizon Fuel Cell(I) Ltd., Nagpur
- ➢ **Er. Amit Deotale**, Director, Shrinath Engineering, Nagpur
- ➢ **Prof. Vinod Hiwanj,** Director, GreenLife Solutions, Nagpur
- ➢ **Prof. Vivek Bhore**, V.V. Associates, Nagpur

WHO MAY PARTICIPATE?

- ➢ Industrialists and Engineers from various industries
- ➢ Scientists from government research and development (R&D) organizations, Environment and Health
- ➢ Government officers (Defence ministries)
- ➢ Faculty members of engineering colleges
- ➢ Practicing engineers and design consultants
- ➢ Students and academicians

DATES AND VENUE

Date : **1st -2nd February, 2018**
Venue : CSIR-NEERI, Nagpur

FEES

- Rs. 8,550/- (Rupees Eight Thousand Only) + GST(@18%) per industrial participant (Total Rs. 9789.75)
- Rs. 4,275/- (Rupees Four Thousand Two Hundred & Seventy Five only) + GST (@18%) per academician and professionals
- Rs. 2,000/- (Rupees Two Thousand only) for students

The registration will be on first-come-first-serve basis. Registration is limited to first 250 applicants. The fee is payable by Demand Draft DD/Cheque only (Nagpur A/c) in favour of **"Director, NEERI Nagpur".**
Last date for registration: **25/01/2018.**

ACCOMMODATION

This is a non-residential programme. The participants are expected to make their own arrangements for stay. Subject to availability, the organizers will try to book accommodation on payment basis within the guest houses of CSIR-NEERI Nagpur or nearby, if requested sufficiently in advance through the Registration Form

ABOUT NAGPUR

Nagpur is famous for its oranges and also known as Tiger land of Maharashtra state. Being the centre of the India, the links are best between the major means of transport that is by road, by train and air. The two national highways NH 6 and NH 7 are passing through Nagpur.