



IIT Bombay



National Centre for Photovoltaic
Research and Education

Three day CEP course on C-Si Solar Cells and Modules: Theory, Fabrication and Characterization

September 11th–13th, 2013

Venue:
Seminar Hall, 2nd Floor
Victor Menezes Convention
Centre (VMCC)
IIT Bombay



C-Si Solar Cells and Modules: Theory, Fabrication and Characterization

Day 1
11th September, 2013

Time	No	Title	Speaker
9:00 - 9:30		Course Registration and Course Material Distribution	
9:30 - 10:00		Course Inauguration	
9:30- 9:40		Welcome and brief introduction to NCPRE	Prof. Chetan Singh Solanki
9:40 - 9:50		Introduction to Education Programs under NCPRE	Prof. Pratibha Sharma
9:50 - 10:00		Introduction to the workshop	Prof. Anil Kottantharayil
10:00 - 11:30	1	Fundamentals of Solar Energy Conversion	Prof. JuzerVasi, IIT Bombay
11:30 -12:00		Tea break with informal discussion on previous lectures	
12:00 - 13:00		Fundamentals of Solar Energy Conversion (continued)	Prof. JuzerVasi, IIT Bombay
13:00 - 14:00		<i>Lunch</i>	
14:00 - 15:30	2	Loss mechanisms	Prof. ChetanSolanki, IIT Bombay
15:30- 16:00		<i>Tea break with informal discussions on previous lectures</i>	
16:00 - 17:30	3	Strategies for Improvement	Prof. ChetanSolanki, IIT Bombay

Day 2
12th September, 2013

Time	No	Title	Speaker
9:30–11:00	4	Characterization of Cells and Materials	Prof. B.M. Arora, IIT Bombay
11:00 –11:30		<i>Tea break with informal discussions</i>	
11:30 - 13:00		Characterization of Cells and Materials (continued)	Prof. B.M. Arora, IIT Bombay
13:00 - 14:00		<i>Lunch</i>	
14:00 - 15:30	5	Silicon: Material properties and wafer production	Prof. Anil Kottantharayil, IIT Bombay
15:30 - 16:00		<i>Tea break with informal discussions</i>	
16:00 - 17:30	6	Crystalline Silicon Solar Cell: Process and Production Technology Overview	Mr. PrakashSuratkar, Tata Power Solar, Bangalore

Day 3
13th September, 2013

Time	No	Title	Speaker
9:00 - 10:30	7	Module Manufacturing Technology	Mrs. VasanthiSreeram, Webel Solar, Kolkata
10:30 - 11:00		<i>Tea break with informal discussion on previous lectures</i>	
11:00 - 12:30	8	Module reliability assessment: techniques and insights	Prof. GovindasamyTamizhmani, Director, PV Reliability Laboratory, Arizona State University
12:30 - 13:30		<i>Lunch</i>	
13:30 – 14:30	9	Module Testing and Certification	Mr. C. S. Kamalaksha, TUV Rheinland (India), Bangalore
	10	Lab Visit: Visit to lab and inspection of fabrication and characterization tools used for solar cell fabrications.	Dr. DikshaMakwani, NCPRE

Registration Details:

There is limited number of seats for the course. Participants are required to confirm their registration by sending the completed Registration Form, along with the fee to the Course Coordinator address. The fees must be paid by demand draft in favour of "Registrar IIT Bombay - CEP Account".

Fee Structure:

Category	Amount	Duration of Course
Industry/ Individual	Rs. 15,000	3 Days
Academic/Institution from India	Rs. 10,500	3 Days
Student from India	Rs. 3,000	3 Days

A confirmation email will be sent after we receive the demand draft. If you do not hear from us for over 7 days, please track your courier. Please drop us an email at ncpre@iitb.ac.in only if the post has reached us and you have not heard from us. Your registration is complete only after we receive your demand draft and the registration form.

Kindly send the demand draft by speed post/courier to the address of the course coordinator given below:

Course Coordinator:**Prof. Anil Kottantharayil**

Department of Electrical Engineering
Indian Institute of Technology Bombay
Powai, Mumbai - 400 076

Deadline for submitting the Registration Form and Fees is 10th August, 2013.

Travel support for students: TA will be provided to student participants on prior request during registration. The support is limited to the sleeper class fare only.

Accommodation:

Accommodation is available in the institute hostel or guest house/similar facility for limited number of participants on payment as per actual by the individuals. Kindly let us know at the time of registration if you would need accommodation.

Please contact the following for all queries related to registration & accommodation:

Registration:**Mrs. Smita Bhattacharjee**Email: smita98@iitb.ac.in

Contact No: 02225764476

Accommodation:

Mr. Ajay P Jadhav

Email: ajayjadhav@iitb.ac.in

Contact No: 0982149889

More details: <http://www.ncpre.iitb.ac.in/events.php>