

**INTERNATIONAL CONFERENCE ON ENERGY EFFICIENT LED LIGHTING AND
SOLAR PHOTOVOLTAIC SYSTEMS**

27TH -29TH MARCH 2014

IIT KANPUR

CONFERENCE PROGRAM

CONFERENCE PROGRAM VENUE: OUTREACH AUDITORIUM 27TH MARCH 2014	
01:00 – 02:00 PM	LUNCH
02:00-03:00 PM	REGISTRATION & VISIT TO SERE
03:00 – 04:00 PM	INAUGURATION OF THE CONFERENCE CHIEF GUEST DR. T. RAMASAMI, SECRETARY, DST
04:00 – 04:30 PM	HIGH TEA & INAUGURATION OF THE EXHIBITION DR. T. RAMASAMI, SECRETARY, DST & PROF. INDRANIL MANNA, DIRECTOR, IITK
04:30 – 06:00 PM	PANEL DISCUSSION TOPIC: ROLE OF INDIAN CELL MANUFACTURERS ON THE GLOBAL STAGE PANELISTS: PROF. KL CHOPRA, FORMER DIRECTOR, IIT KHARAGPUR, MR. RAVI KHANNA, CEO, ADITYA BIRLA SOLAR, MR. RAGHU TATACHAR, TATA POWER SOLAR, DR. PRAVEEN SAXENA, HEAD, NISE, MR. RAJINDER KAURA, VICE PRESIDENT SESI & MD BERGEN
07:00 – 08:00 PM	LASER SHOW
08:00 PM - ONWARDS	BANQUET

CONFERENCE PROGRAM
VENUE: OUTREACH AUDITORIUM
28TH MARCH 2014

SESSION CHAIR : : PROF. KL CHOPRA, FORMER DIRECTOR, IITKHG

09:00 – 9:45 AM	KEY NOTE ADDRESS NON VISUAL EFFECTS OF LIGHT SUDESHNA MUKHOPADHYAY, HEAD, PHILIPS LIGHTING ACADEMY
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09:45 – 10:30 AM	KEY NOTE ADDRESS (VIDEO CONFERENCE) LED MARKET AND TECHNOLOGY TRENDS VRINDA BHANDARKAR, V-SHARP CONSULTING LLC, USA
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10:30 – 10:50 AM	TEA
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SESSION CHAIR : SUDESHNA MUKHOPADHYAY, HEAD, PHILIPS LIGHTING ACADEMY

10:50 – 11:20 AM	INVITED TALK The Status of LED Industry in India AMRIT MANWANI, CHAIRMAN & MD, SAHASARA ELECTRONICS PVT. LTD.
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11:20 – 11:50 AM	INVITED TALK SOLAR FOR AGRICULTURE THROUGH LED PROF EIICHI ONO , PH.D. TAMAGAWA UNIVERSITY TOKYO
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11:50 – 12:20 AM	INVITED TALK LED TESTING & CERTIFICATION DR RAJESH KUMAR, NISE
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12:20 – 12:50 PM	INVITED TALK LED DRIVERS - DESIGN CHALLENGES. SHAILESH K. DUBEY, ELECTRONICS & SYSTEMS, PHILIPS
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12:50 – 01:20 PM	CONTRIBUTORY PAPER LEDs BASED CHARACTERIZATION OF PHOTOVOLTAIC DEVICES M. BLISS*, F. PLYTA, T.R. BETTS, R. GOTTSCHALG, LOUGHBOROUGH UNIVERSITY, UK
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1:20 – 2:20 PM	LUNCH
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02.20 – 02:50 PM	POSTER PAPERS SESSION INAUGURATION & PRESENTATION
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SESSION CHAIR : MR. BK KARMAKAR, ADVISOR, FIEM INDUSTRIES

02:50 – 03:20 PM	INVITED TALK EVOLUTION AND CHALLENGES OF LED PACKAGING MV ROY, HEAD, TECHNICAL SOLUTIONS, PHILIPS LUMILEDS
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03:20 – 03:50 PM	INVITED TALK NEED FOR COORDINATED EFFORTS BETWEEN RESEARCH, DEVELOPMENT & CONSUMER RAMADAS PATIL HEAD, SSL BUSINESS, MOSER BAER INDIA LTD.
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03:50 – 04:10 PM	TEA
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SESSION CHAIR : PROF. JITENDRA KUMAR, IIT KANPUR

04:10 – 04:40 PM	INVITED TALK PRINTABLE OPTOELECTRONIC DEVICES: OPPORTUNITIES AND CHALLENGES FOR MATERIAL SCIENTISTS PROF. ANIL KUMAR, IIT BOMBAY
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04:40 – 05:00 PM	CONTRIBUTORY PAPER COMPUTER SIMULATED APPLICATIONS OF FIREFLY INSPIRED LEDs PARIDHI GUPTA, ANNIE RAJORIA, *NARENDRA KOHLI, HBTI, KANPUR
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05:00 – 05:20 PM	CONTRIBUTORY PAPER PREPARATION OF $Na_{0.5}Gd_{0.5}MoO_4:Ln^{3+}$ PHOSPHOR BY USING MECHANOCHEMICALLY ASSISTED SOLID STATE META-THESIS REACTION METHOD R. KRISHNAN, J. THIRUMALAI, V.MAHALINGAM, A.JOHN PETER B.S. ABDUR RAHMAN UNIVERSITY, CHENNAI, TAMIL NADU
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05:20 – 05:40 PM	CONTRIBUTORY PAPER PEROVSKITE $BASNO_3$ NANOSTRUCTURES BASED DYE-SENSITIZED SOLAR CELL N. RAJAMANICKAM SCHOOL OF PHYSICS, MADURAI KAMARAJ UNIVERSITY, TAMILNADU
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TIME AM/PM	CONFERENCE PROGRAM VENUE: OUTREACH AUDITORIUM 29TH MARCH 2014
SESSION CHAIR : PROF. AK SINHA, IITKHG	
09:00 – 9:40 AM	KEY NOTE ADDRESS FUTURE OF SOLAR PV POWER PROF. KL CHOPRA, EX-DIRECTOR, IIT KHARAGPUR
09:40 – 10:20 AM	KEY NOTE ADDRESS ADVANCES IN C-SI CELL PROCESS SUITABLE FOR NEAR FUTURE COMMERCIALIZATION PROF. CHETAN S. SOLANKI, IIT BOMBAY
10:20 – 11:00 AM	KEY NOTE ADDRESS MARKET TRENDS IN SOLAR PV ARUL SHANMUGASUNDRAM, CTO, TATA POWER SOLAR
11:00 - 11:20 AM	TEA
SESSION CHAIR : PROF. SP DAS, EE, IITK	
11:20 – 11:50 AM	INVITED TALK (ON LINE VIDEO TALK) DESIGN AND FABRICATION OF A FISHNET STRUCTURE TO STUDY THE PLASMONIC EFFECT IN THIN FILM SILICON SOLAR CELLS DR. VINAY BUDHRAJA, SANDIA NATIONAL LAB, ALBUQUERQUE & UNIVERSITY OF ARKANSAS AT FAYETTEVILLE, ARKANSAS, USA
11:50AM – 12:20 PM	INVITED TALK DESIGN AND INTEGRATION OF OFF-GRID PV SYSTEMS FOR HOME AND COMMERCIAL INSTALLATION PROF. AK SINHA, IIT KHARAGPUR
12.20 – 12.50 PM	INVITED TALK SOLAR POWER PRODUCTS -AN OPPORTUNITY FOR EMPLOYMENT GENERATION IN INDIA RAJINDER K KAURA, VICE PRESIDENT, SESI. INDIA.
12:50 – 01:50 PM	LUNCH
SESSION CHAIR : PROF. MONICA KATIYAR, MSE, IIT KANPUR	
01:50 – 02:20 PM	INVITED TALK (ON LINE VIDEO TALK) DEVICE ENGINEERING FOR SMALL MOLECULAR AND POLYMER PHOTOVOLTAIC DEVICES PROF. VELLAISAMY ROY, CITY UNIVERSITY OF HONG KONG
02:20 – 02:50 PM	INVITED TALK DYE SENSITIZED SOLAR CELLS BASED ON METAL FREE ORGANIC DYES: MATERIALS AND RECENT ADVANCES PROF. GD SHARMA, JAIPUR ENGINEERING COLLEGE
02:50 – 03:10 PM	CONTRIBUTORY PAPER ROAD BLOCKS FOR SOLAR PV DEVELOPMENT IN INDIA SAURABH KUMAR, J.K JAIN, B.K KARMAKAR, GAURAV KUMAR, MONIKA FIEM INDUSTRIES LTD, ,SONEPAT, HARYANA
03:10 – 03:30 PM	TEA
03:30 – 04:00 PM	WORKING MODEL CONTEST
SESSION CHAIR : PROF. CHETAN S. SOLANKI, IIT BOMBAY	
04:00 – 04:20 PM	CONTRIBUTORY PAPER DEPENDENCE OF WAVELENGTH SELECTIVITY OF HOLOGRAPHIC PV CONCENTRATOR ON PROCESSING PARAMETERS ABHIJIT GHOSH, A.K. NIRALA & H.L. YADAV BIOMEDICAL OPTICS LAB, DEPARTMENT OF APPLIED PHYSICS, ISM DHANBAD
04:20 – 04:40 PM	CONTRIBUTORY PAPER A HIGH EFFICIENCY POWER CONVERTER FOR PHOTO-VOLTAIC APPLICATIONS SUNKARA SURESH, VELAPPAGARI SEKHAR, KANTE VISWESWARA, YANAMALA DAMODHARAM EEE DEPARTMENT, KUPPAM ENGINEERING COLLEGE, KUPPAM-CHITTOOR , ANDHRA PRADESH
04:40 – 05:00 PM	CONTRIBUTORY PAPER GRID CONNECTED CASCADED MULTILEVEL INVERTER FOR PHOTOVOLTAIC APPLICATION RAJASEKAR S AND RAJESH GUPTA EE, M. N. NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
05:00 – 05.15 PM	PRESENTATION OF POSTER PAPERS & WORKING MODEL CONTEST AWARDS
05:15 – 5:30 PM	VALEDICTORY

Poster Paper Presentation

S.No.	Code No.	Author's Name	Title
1	CPVS-1	Kante Visweswara Velappagari Sekhar P. Kiran Kumar	An Investigation of Incremental Conductance based Maximum Power Point Tracking for Photovoltaic System
2	CPVS-7	B.Naresh,KRK Prasad	Adaptive Neuro Fuzzy Based MPPT with Modified Regula Falsi Algorithm for solar power system
3	CPVS-13	Ayush Munjal, Souvik Ganguli, Shripad Wachasundar	A Simplistic approach to PV Emulator
4	CPVS-18	Shivam Srivastava, Deepak Sahu & R.S. Anand	Design and Implementation of Real Time Data Acquisition, Display and Analysis System for Field Performance Evaluation of Different Photovoltaic Technologies
5	CPVS-20	S.Lenin Prakash, M.Arutchelvi, D.Kalyanraj	Digital Implementation of Controller for PV Array fed Inverter Interfaced with Grid
6	CPVS-21	Nidhi Singh,Sumedha Sengar, R.S.Anand	Full and Partial Shading Effects on Modules and Strings on Solar Photovoltaic System Performance
7	CPVS-22	Sumedha Sengar, Nidhi Singh, R.S. Anand	Design & Optimization of Off-Grid Photovoltaic System for a Typical Indian house hold
8	CPVS-23	Chandra Shekhar Singh	Comparison of different control technique in Switched Inductor Quasi Z Source Inverter
9	CPVS-26	Lenin Prakash, Arutchelvi Meenakshi Sundaram	A simplified time-domain design of a cascaded PI-sliding mode controller for dc-dc converters used in off grid Photovoltaic Applications
10	CPVS-28	Gobind Pillai*1, R. S. Anand2, Nicola Pearsall1, Ghanim Putrus1, Tatiani Georgitsioti1, Ian Forbes1, R. Pon Perumal2, Shivam Srivastava2	Role of Routine Visual Inspection in Performance Monitoring of Photovoltaic (PV) Systems
11	CPVS-31	Manoj Jhawar, Deepak Nirwal, Prashant Porwal	Renewable Energy -Environmental and Social impact in India
12	CPVD-1	Lokendra Kumar and Monika Mall	Improving the performance of ZnO/P3HT inverted architecture hybrid solar cell by post annealing and ZnS incorporation
13	CPVD-2	A. Subramania* Mohammad Rameez, K. Saranya	Development of Ni-Co decorated CNFs as a novel low cost counter electrode for dye-sensitized solar cells
14	CPVD-3	S. Thiruvenkadam, A. Leo Rajesh	Effect of precursor solution pH on the structural and optical properties of spray pyrolysed CuSbS ₂ thin films
15	CPVD-8	S. M. Giripunje*, Jyoti Ghushe,	I-V Characterization of Chemically Bath Deposited

16	CPVD-9	Mahima Arya, Anirban Mitra	Study the Growth Mechanism of Pulsed Laser Deposited Ag Nanoparticles For Plasmonic Solar Cells Application
17	CPVD-15	T. Bhim Raju, Ashish Singh and Parameswar K. Iyer	A new n-type PDI-based semiconducting polymer as electron acceptor in bulk heterojunction solar cell.
18	CPVD-16	Akansha Bansal, Pooja Srivastava and B.R.Singh	Surface passivation properties of Al ₂ O ₃ for enhanced c-silicon solar cell efficiency
19	CPVD-17	Sumana Bhattacharjee	Graphene And Terahertz For Solar Industry
20	CPVD-18	B. Ghosh, D. Ghosh, S. Hussain ¹ , R. Bhar and A.K. Pal*	p-DLC layer on n-Si substrates for photovoltaic application
21	CPVD-19	D. Ghosh, B. Ghosh, S. Hussain ¹ , B. R. Chakraborty ² , R. Bhar and A. K. Pal*,	Effect of nano-Ag plasmonic layer on the performance of p-Si/CdS and InP/CdS solar cells
22	CLED-3	Nakkeeran M, Thenmozhi R	Studies on Harmonics Distortion Control and Power Factor Improvement in High Power LED Lamps for Economy and Efficiency
23	CLED-6	Dipjyoti Das ¹ , Debojit Hazarika ² , Ashish Singh ¹ , Anamika Dey ¹ and Parameswar K. Iyer ^{1,2,*}	Polymer / Organic light-emitting diode (PLED / OLED) based on new polyfluorene derivatives
24	CLED-7	AnshikaSaxena, MadhuRawat, R.S Anand	Emission Color Tuning in Organic Light Emitting Diodes
25	CLED-9	Asit Prakash, Monica Katiyar	White polymer light emitting diodes for lighting – An overview
26	CLED-10	Rahul K Sharma, Deepak, Monica Katiyar*	Extraction of light from Organic Light Emitting Diodes: Present Status