



CSIR-One Week One Theme Program on Energy & Energy Devices (OWOT-EED)

at CSIR-National Physical Laboratory (NPL), New Delhi

26-27 June, 2024, (Venue: NPL Auditorium)

Day 1: Program					
Date	Time	Duration	Session	Speaker Name and affiliations	
26-06-2024	Inaugural Function				
	10.00-11.00 am	1 hrs.	About OWOT:EED (CSIR-NPL)	Dr. Sushil Kumar	
			Opening Remarks	Director, CSIR-NPL	
			Chief Guest Address	Mr. Ivan Saha, CEO, Vikram Solar	
			Vote of Thanks	Dr. Asit Patra	
	11.00-11.30 am	30 min.	Tea Break		
	Technical session: Photovoltaic Metrology & Flexible Solar Cells Activity at CSIR-NPL				
	11.30-12.10 pm	40 min.	PV Quality Infrastructure: Primary Standard Facility for Reference Solar Cell Calibration & PID Reliability Testing	Dr. P. Prathap, CSIR-NPL	
	12.10-12.50 pm	40 min.	Futuristic Flexible Silicon Solar Cell Technology	Dr. Sanjay Kr. Srivastava, CSIR-NPL	
	12.50-1.30 pm	40 min.	Flexible Perovskite Solar Cells: Benefits, Challenges & Commercial viability	Dr. Pankaj Kumar, CSIR-NPL	
	1.30-2.30 pm	1 hrs.	Lunch		
	Industry Meet & Student Outreach				
	2.30-4.00 pm	1.5 hrs.	Venue: Auditorium	Moderators:	
			Industry Meet: Industry Presentations & Interaction	Dr. Parveen Saini & Dr. Sanjay Kr. Srivastava	
		Venue: HRD Hall	Technical Experts		
		Student Outreach: Interaction with PV Technical Experts & Hands-On-Measurement of Solar PV Modules	Ms. Subha Laxmi & Ms. Kalpana Lodhi		
4.00-4.30 pm	30 min.	Tea Break			

Demonstrations/ Technology showcase to Industry Participants				
	4.30-5.30 pm	1 hrs.	Titles of exhibits/ demonstrations	Concerned scientists/Staff
			Primary reference solar cell calibration facility	Dr. P. Prathap/Dr. S.K. Srivastava/ Ms. Subha Laxmi
			Printed Perovskite Solar Cells	Dr. Pankaj Kumar/Dr. Neeraj Chaudhary
			Solar PV waste recycling	Dr. Sushil Kumar/Dr. Parveen Saini/Ms. Kalpana Lodhi
Day 2: Program				
Date	Time	Duration	Session	Speaker name and affiliation
27-06-2024	Technical session: Energy gas (Hydrogen & Alternative Fuels) Metrology Activity at CSIR-NPL			
	10:00 -10:20 am	20 min.	About Energy Gas Metrology Session and Need of Hydrogen Metrology	Dr. Shankar G. Aggarwal, CSIR-NPL
	10:20 - 10:40 am	20 min.	Gas Metrology: Current Status at CSIR-NPL	Dr. Daya Soni, CSIR-NPL
	10:40 - 11:00 am	20 min.	Clean Energy Horizon: Emerging Trends in Alternative Fuels	Mr. Shailesh Sonawane, DGM, ARAI, Pune
	11.00 -11.30 am	30 min.	Tea Break	
	Industry Presentation and Interaction: On Advance Analytical Instrumentation			
	11:30 - 11:50 am	20 min.	Hydrogen analysis in CNG/CBG with Various Techniques	Dr. Ashish Srivastava, Director, Chemtron Science Laboratories Pvt. Ltd., Mumbai
	11:50 - 12:10 pm	20 min.	Shimadzu Gas Chromatography Solution on Alternate Energy	Mr. Vimal Sangoi/ Mr. Prashant Hasa, Sr. Business Manager, Toshvin Analytical Pvt. Ltd., Mumbai
	12:10 - 12:30 pm	20 min.	Analysis of Gas Impurities by using Customized Gas Chromatographic Solutions	Dr. Sarvendra Singh, Product Specialist, Agilent Technologies India Pvt. Ltd., New Delhi
	12:30 - 12:50 pm	20 min.	Measurement and Analysis Solutions by Field	Mr. Abhishek Agarwal, Head- Mobility and Energy, Horiba India Private Limited, New Delhi

Demonstrations/ Technology showcase to Industry Participants			
Time	Duration	Titles of Exhibits/ Demonstrations	Concerned Scientists/Staff
12:50-01:10 pm	20 min.	Gas Metrology Facilities at CSIR-NPL	Dr. Khem Singh/ Mrs. Abha Shukla
01:10-01:30 pm	20 min.	Fluid Flow Facilities at CSIR-NPL	Dr. Shiv Jaiswal/ Dr. Anshul Varshney
1.30-2.30 pm	1 hrs.	Lunch Break	
Technical session: Biofuel (Biomass to Biocoal) activity at CSIR-NPL			
2.30-3.00 pm	30 min.	Waste biomass to bio coal by torrefaction for carbon neutrality	Dr. S.R. Dhakate, CSIR-NPL
Industry Meet on Biocoal			
3.00-4.00 pm	1 hrs.	Industry Presentations & Interaction	Moderator Dr. Priyanka H. Maheshwari
4.00-4.30 pm		Tea Break	
Demonstrations/ Technology showcase to Industry Participants			
Time	Duration	Titles of exhibits/ demonstrations	Concerned scientists/Staff
4.30-5.00 pm	30 min.	Demonstration of pilot plant for bio-mass torrefaction and instruments for characterization	Dr. Priyanka H. Maheshwari/Mr. R.K. Seth
Valedictory function			
5.00-5.30 pm	30 min.	Interaction, Feedback and Closing Remarks	

Live Streaming	
MSteam	Join the meeting https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZDhmMzUwZDEtMGRhZC00MzBiLTk0MTYtNzNhNWU4MTA2ZDI%40thread.v2/0?context=%7b%22Tid%22%3a%22b867f20e-8a9c-4603-b5ab-39c3840dfb64%22%2c%22Oid%22%3a%22a08d3702-25a1-40b6-b033-44fdca4c6884%22%7d Meeting ID: 484 377 679 410 Passcode: v3c8h9