

Indo-German International Conference on Metrology for the Deployment of Green Hydrogen and Renewable Fuels in India



**Poster session program (6th April, 2022) | Virtual Event
(5 min Presentation + 2 min Questions)**

Co-Committee Members		Dr. Manjunath G L Energy Institute Bengaluru, India	
		Dr. Fraddy D'Souza TERI, India	
		Dr. Shankar Aggarwal NPL, India	
		Dr. M.S. Santosh CSIR-CIMFR, India	
Time (IST)	IST	Online Poster Presentation	
9:10	12:40	Chair Person	Dr. Anand Krishnasamy IITMadras, India
		Presenter	Omkar Satyaprakash Bindhani
		Affiliation	Sustainable Thermal Energy System Laboratory (STESL), Department of Mechanical Engineering, National Institute of Technology Rourkela, Rourkela, Odisha, India
		Topic	A1: Net-Zero Energy Model for Transportation of Mobile Thermochemical Energy Storage Through District Energy Network
9:17	12:47	Chair Person	Dr. Anand Krishnasamy IITMadras, India
		Presenter	Md S Mujaheed Khan
		Affiliation	Department of Mechanical Engineering, Indian Institute of Technology Guwahati, Guwahati, India
		Topic	A2: Effect of Al2O3 nanoparticles blended biodiesel on performance and emission characteristics of diesel engines
9:24	12:54	Chair Person	Dr. Wittison Kamei CSIR-IITR, India
		Presenter	Anil Kumar Rout
		Affiliation	School of Energy Science and Engineering, Indian Institute of Technology, Guwahati, India
		Topic	A3: Design and Development of a Thermal Probe for Internal Combustion Engine Measurements
9:31	13:01	Chair Person	Dr. Wittison Kamei CSIR-IITR, India
		Presenter	Suchita C. Barhate
		Affiliation	School of Energy Science and Engineering, Indian Institute of Technology Guwahati, Guwahati, India
		Topic	A4: Ammonia Route in Green Hydrogen Blending for Domestic Applications
9:38	13:08	Chair Person	Dr. Wittison Kamei CSIR-IITR, India
		Presenter	Ashutosh Kumar Singh
		Affiliation	Department of Mechanical Engineering, NIT Manipur, Imphal, India
		Topic	B1: Film cooling analysis of ammonia based aviation fuels in jet engines
9:45	13:15	Chair Person	Prof. Niranjan Sahoo IITG, India
		Presenter	Vinit Malik
		Affiliation	Sustainable Thermal Energy Systems Laboratory (STESL), Department of Mechanical Engineering, National Institute of Technology Rourkela, Rourkela, Odisha, India
		Topic	A5: Impact of Impurities in Tungsten Based Magneto-Resistive Heat Switch for Space Application
9:52	13:22	Chair Person	Dr. Rajesh Sadanandan IIST, India
		Presenter	Sima Nayak
		Affiliation	Department of Mechanical Engineering, Indian Institute of Technology, Guwahati, India
		Topic	A6: Fabrication of a Coaxial Thermal Probe for Transient Temperature and Heat-flux Measurement
9:59	13:29	Chair Person	Dr. Rajesh Sadanandan IIST, India
		Presenter	Ojing Siram
		Affiliation	Indian Institute of Technology Guwahati, Assam, India
		Topic	B2: A statistical approach to determine and discretize the turbulent flow signature acquired using hot-wire anemometry
10:06	13:36	Chair Person	Dr. Rajesh Sadanandan IIST, India
		Presenter	Samantha Da Costa
		Affiliation	School of Chemical Sciences, Goa University, Taleigao Plateau, Goa, India
		Topic	B3: Investigating the oxidative reactivity and nanostructural characteristics of diffusion flame generated soot using methyl crotonate and methyl butyrate
10:13	13:43	Chair Person	Dr. Rajesh Sadanandan IIST, India
		Presenter	Debshilpi Patra
		Affiliation	Department of Chemical Engineering, Haldia Institute of Technology, District - Medinipur (E), Haldia, India
		Topic	B4: Acetylene Powered Thermal Power Plant Boiler
10:20	13:50	Chair Person	Dr. Selvarajan Nagendran IITD, India
		Presenter	Ankita Pandey
		Affiliation	School of energy science and engineering, Indian institute of Technology Guwahati, Assam, India
		Topic	C1: Biohydrogen production by dark fermentation through microbial routes - comparative study on effects of varying salts on biohydrogen yields
10:30	14:00	(30 mins) Tea/Coffee Break with Break out rooms for discussion	
11:00	14:30	Chair Person	Prof. Dr.-Ing. Detlev Markus PTB, Germany
		Presenter	Adarsh Jayagopal
		Affiliation	Department of Chemistry, Indian Institute of Space Science and Technology, Vallamala, Thiruvananthapuram, India
		Topic	A7: Optimizing the Sabatier reactor design for power-to-gas applications: A computational approach
11:07	14:37	Chair Person	Prof. Dr.-Ing. Detlev Markus PTB, Germany
		Presenter	Natarajan Rajesh
		Affiliation	Department of Aerospace Engineering, Indian Institute of Space Science and Technology, Thiruvananthapuram, India.
		Topic	B5: Effect of Hydrogen addition on laminar flame characteristics of n-Dodecane-Hydrogen-air mixtures at different thermodynamic conditions
11:14	14:44	Chair Person	Dr. Saurabh Kumar Technical Expert for PTB, India
		Presenter	Gaurav Priyadarshi
		Affiliation	Sustainable Thermal Energy System Laboratory (STESL), Department of Mechanical Engineering, National Institute of Technology Rourkela, Rourkela, Odisha, India
		Topic	D1: Design And Performance Analyses of Solar-Powered and Solar-Thermal Driven Desiccant Coated Energy Exchanger
11:21	14:51	Chair Person	Dr. Saurabh Kumar Technical Expert for PTB, India
		Presenter	Kabrita Naik
		Affiliation	Indian Institute of Technology Guwahati
		Topic	D2: On the use of cavity for the power augmentation of straight-bladed Darrieus vertical axis wind turbines
11:28	14:58	Chair Person	Dr. Saurabh Kumar Technical Expert for PTB, India
		Presenter	P.K.S Tejes
		Affiliation	Sustainable Thermal Energy System Laboratory (STESL), Department of Mechanical Engineering, National Institute of Technology Rourkela, Rourkela, Odisha, India
		Topic	D3: Performance Evaluation Criterion for Extraction of Freshwater from Salt Solution Using Solar Heater/Biogas as Renewable Thermal Source
11:35	15:05	Chair Person	Dr. Saurabh Kumar Technical Expert for PTB, India
		Presenter	Tirtharaj Purushottam Babre
		Affiliation	STES Laboratory, Mechanical Engineering Department, NIT Rourkela
		Topic	A8: Assessment of Performance Evaluation Criterion for CO2 Capture from Flue Gases Using Dynamic Model