WASTE TO ENERGY CONVERSION

[Org. by IIT GUWAHATI & NIT MIZORAM]

28th & 29th December, 2018

THEME: 'Perspective and Trends in the Development of Science Education and Research'

9:80 - 10:00 Registration 10:00 - 11:00 Inaugural Session 10:00 - 10:15 Short Speech : TEQIP Coordinator, IIT Guwahati 10:10 - 10:15 Short Speech : TEQUP Coordinator, NIT Mizoram 10:10 - 10:15 Short Speech : Dr. Pankaj Kalita 10:10 - 10:15 Short Speech : Dr. Coordinator, NIT Mizoram 10:15 - 10:20 Inaugural Speech : Director, NIT Mizoram 10:20 - 10:30 Short Speech : Director, NIT Mizoram 10:30 - 10:55 Speech : Dr. R. Lathtangliana, Honorable Minister Dept. of Higher & Technical Education Govt. of Mizoram 10:55 - 11:00 Vote of Thanks : Dr. H. LaBhimingsanga, NIT Mizoram 11:15 - 13:45 TECHNICAL SESSIONS I 11:15 - 13:45 TECHNICAL SESSIONS I 11:15 - 12:15 Distributed energy solution: a few case studies with agricultural wastes of India 12:15 - 12:25 A.K.Das / GIFT, BHUBANESWAR / NCWEC-18-04/ Thermolysis of waste plastics into value added products and its future prospective 12:25 - 12:35 B. G. Abreha / IIT Guwahati / NCWEC-18-04/ Thermolysis of mare Energy Storage for Solar Cooking using Comsol Multiphysics Software 12:35 - 12:45 Sujit Roy / NT Sitchar / NCWEC-18-04/ Thermolysis for energy application value adade products and its future prospective 12:35 - 13:45<	DAY 1	28 th December, 2018 (Friday)	
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15:05 – 15:15 Hydrodynamic And Heat Transfer Behaviour Of Conical Fluidized Bed With That Of A Columnar Pressurized Circulating Fluidized Bed 15:15 15:15 15:15 15:25		East India- Issues & Prospects	
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for Rural Community in Mizoram	15:15 - 15:25		
	15:15 - 15:25	for Rural Community in Mizoram	

	High Tea (15:25-15:40)		
	Pavitra Singh / IIT Guwahati / NCWEC-18-30/ Development and performance evaluation of		
15:40 - 15:50	an efficient and user friendly rotating fluidized bed in static geometry (RFBSG) for drying		
	applications		
15.50 16.00	Renjith Krishnan / NIT Mizoram / NCWEC-18-05/ The Feasibility of Extracting Biodiesel		
15:50 - 16:00	from Waste Cooking Oil		
16.00 16.10	Dr C. Lalengzama / HATIM / NCWEC-18-14/ Domestic waste disposal and management in		
16:00-16:10	Mizoram		
16:10-16:20	I.B. Laskara / NIT Silchar /NCWEC-18-41/ Biodiesel production from used cooking oil using		
10:10-10:20	metal free phenolsulphonic acid formaldehyde resin		
DAY 2	29 th December, 2018 (Saturday)		
9:30 - 13:50	TECHNICAL SESSIONS III		
Chairman	Dr. Ajay Kalamdhad, IIT Guwahati		
9:00 - 10:00	Prof. Anupam Dewan, IIT Delhi		
Keynote Address	Challenges in modelling of engineering turbulent Flows		
	Shayaram Basumatary / IIT Guwahati / NCWEC-18-31/ Food waste utilization for		
10:00 - 10:15	anaerobic digestion: A sustainable energy conversion technique		
10:15 - 10:25	Debangsu Kashyap / IIT Guwahati / NCWEC-18-32/ Waste heat recovery from engine		
	exhaust through different refrigeration systems		
10.05 10.05	Sharath Akarapu / NIT Mizoram / NCWEC-18-34/ SWOC Analysis of Twin Spark and GDI		
10:25 - 10:35	Technology on Performance and Emission of 2-stroke Engine		
10.25 10.45	Srimonti Dutta / IIT Guwahati / NCWEC-18-35/ Compositional and Magnetic Analysis of		
10:35-10:45	Bell-Metal on the basis of study of its processing by Artisans of Assam		
10:45 - 10:55	Chandan Kakati / IIT Guwahati / NCWEC-18-38 / Waste Heat recovery: A review		
	Tea Break (10:55 – 11:10)		
	Kalyani Rajkumari / NIT Silchar / NCWEC-18-40/ Waste to wealth: A sustainable protocol		
11:10 - 11:20	for production of biodisel by transesterification of soyabean oil using banana trunk ash as a		
	heterogeneous catalyst		
11:20 - 11:30	Debarshi Baruah / IIT Guwahati / NCWEC-18-42/ Testing of Solar Lantern Systems: A		
	Case Study		
11:30 - 11:40	Bishal Choudhury/ TISS, Guwahati/ NCWEC-18-48/		
11:40 - 11:50	Prasanta Majumder/ NIT Mizoram/ NCWEC-18-49/ Application of Thermoelectric		
	Generator and Organic Rankine Cycle (ORC) for Waste Energy Recovery - A Review		
	Shahrukh Hussain/ MZU, Aizawl/ NCWEC-18-50 / Feasibility study of implementation of		
11:50 - 12:00	microbial fuel cells in constructed wetlands for electricity generation		
	RishirajPurkayastha/ IIT Guwahati/ NCWEC-18-18/ Feasibility of municipal sewage sludge		
12:00 - 12:10	as a fuel for gasification - A study by thermogravimetric analysis		
12:10 - 12:20	Akhil Mohan/ NIT Karnataka/ NCWEC-18-20/ Studies On The Effect Of Flyash (Class-F)		
12.10 - 12.20	As A Catalyst For The Co-Pyrolysis Of Scrap Tyre And Plastic Waste		
12:20 - 12:30	Kanthala Uma Reddy / NIT Mizoram / NCWEC-18-33/ Suggestive Measures for		
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	Improvement of Power Production from Wind Energy in India		
	Dudul Das / IIT Guwahati/ NCWEC-18-39/ Development of a tube and sheet type PV/T		
12:30 - 12:40	collector: Experimental study and performance evaluation		
10.40 10.50			
<u>12:40 - 13:50</u> 12:50 15:45	LUNCH TECHNICAL SESSIONS IV		
<u>13:50 – 15:45</u>			
Chairman	Prof. Anupam Dewan, IIT Delhi		

		Dr. Aigu Kalamdhad IIT Cuwahati	
13:50-14:50	Dr. Ajay Kalamdhad, IIT Guwahati		
	Biological Treatment of Biodegradable Waste		
14:50 - 15:00	Gokul Gopan / N	NIT Mizoram / NCWEC-18-07/ Computational modelling of tapered	
	fluidized bed gasifier using eulerian-eulerian model		
15:00 - 15:10	Aswathy M.S	S (Renjith Krishnan) / NIT Mizoram / NCWEC-18-05/ D-Optimal	
	Modelling for Highe	r Heating Values of Biomass in South India by using Proximate Analysis	
15:10 - 15:20	Nimesh Kumar Sing	h / NIT Mizoram / NCWEC-18-19/ Energy Conservation through Audit	
	in Mizoram Institute of Medical and Research		
15:20 - 15:30	J.P Chakraborty/ IIT BHU/ NCWEC- 18- /Torrefaction and Pyrolysis of Banana Peel		
15:30 - 15:45	Snacks/ Tea		
15:45 - 16:45		Valedictory session	
Venue		Hotel Floria	
Distribution of Certificates		Head, Dept. of Mechanical engg., NIT Mizoram	
Speech		Dr. Pankaj Kalita, IIT Guwahati	
Vote of Thanks		DR. H. Lalhmingsanga, NIT Mizoram	