



KIT-TEQIP-III Sponsored

National Conference on Waste to Energy Conversion (NCWEC-2018)

28th-29th December 2018



Organized by
Department of Mechanical Engineering
**National Institute of Technology
Mizoram**



In Collaboration with
**Indian Institute of Technology
Guwahati**

About the event

Millions of tonnes of solid waste are generated daily around the world. These are disposed of in council and municipal landfill sites, while at the same time; millions of units of fossil fuels are burned daily to generate energy. In India, urban solid waste management has remained one of the most neglected areas. The urban population in India generated about 114,576 tonnes/ day of municipal solid waste (MSW) in 1996, which is predicted to increase 4 fold and reach about 440,460 tonnes/ day by the year 2026. In the recent past, waste to energy conversion technologies, are emerging which hold the potential to create clean renewable energy from solid and liquid waste materials. The waste to energy conversion has become one of the most promising avenues to effectively mitigate the problem of waste disposal. Waste to energy processes includes thermal conversions such as combustion (incineration), pyrolysis, gasification, or biological treatments such as anaerobic digestion and fermentation, etc. and various combinations of available technologies. This conference is designed to address all the issues, technologies and recent advancements related to waste to energy conversion.

Objectives

- The objectives of the conference
- To sensitize the research community on the issues of waste management.
 - To understand the methodologies of waste characterization and segregation.
 - To disseminate knowledge on the various technologies available for waste to energy conversion.
 - To appreciate recent advances in this area.

Scope of the conference

Papers are invited in the following themes

- Waste characterization & segregation
- Biochemical conversion
- Combustion and gasification
- Clean Energy technologies
- Microbial fuel cells
- Generation of bio-hydrogen
- Energy auditing
- Water treatment
- Waste management and policies
- Waste heat recovery in solar devices
- Vermicomposting
- Environmental protection
- Low cost technologies
- Sustainable energy management
- Socio-economic aspect of energy

The NCWEC-2018 program also will include invited talks by prominent researchers, technical sessions and group discussions in the above mentioned areas. All the accepted papers will be published in Conference Proceeding. Selected papers will be endorsed for publication in Journal of Energy and Environmental Sustainability (JEES) and Springer Book Volume.

Registration Fee

Registration Category	Early Bird Registration (Before 30/11/2018)	Late Registration (After 30/11/2018)
Student	Rs.1500	Rs.2500
Academician	Rs.2500	Rs.3500
Industry/ Research lab	Rs.5000	Rs.6000

Important Dates

<i>Last date of submission of abstract</i>	31 st Oct, 2018
<i>Notification of acceptance</i>	8 th Nov, 2018
<i>Submission of full paper</i>	30 th Nov, 2018
<i>Submission of revised Manuscript</i>	15 th Dec, 2018
<i>Last date of registration</i>	20 th Dec, 2018

Organizing Committee	About NIT Mizoram	Visit & Sight Seeing
<p>Patron & Advisor Prof. Rajat Gupta, Director, NIT Mizoram</p> <p>Coordinators Dr. Pankaj Kalita, IIT Guwahati Dr. H. Lalhmingsanga, NIT Mizoram</p> <p>Convener Dr. Bachu Deb, HOD, ME, NIT Mizoram</p> <p>Organizing Secretaries Dr. Bidesh Roy, NIT Mizoram Dr. Abhijit Sinha, NIT Mizoram Dr. Basil Kuriachen, NIT Mizoram Dr. A.R. Sengupta, NIT Mizoram</p> <p>Advisory Committee Prof. Saibal Chatterjee, Dean (Acad.), NIT Mizoram Dr. Alok Shukla, Dean (Student), NIT Mizoram Dr. P. Ajmal Koya, Dean (R&C), NIT Mizoram Dr. K. Gyanendra Singh, Dean (Faculty), NIT Mizoram</p> <p>Organizing Committees Mr. Saurav Suman, NIT Mizoram Mr. Ricky Lalthazuala, NIT Mizoram Mr. Nirban Laskar, NIT Mizoram Ms. Sanasam Vipej, NIT Mizoram Ms. Esther Lalnunmawii, NIT Mizoram</p> <p>Office Secretaries Mr. Lalmuanawma Fanchun, NIT Mizoram Mr. Somnath Chakraborty, NIT Mizoram Mr. Lalchhuanawma, NIT Mizoram</p>	<p>The Ministry of Human Resources Development, Govt. of India established NIT Mizoram in the year 2010 in the state of Mizoram with an objective to impart education, research & training leading to B.Tech, M.Tech, M.Sc & Ph.D degrees. This institute has been declared as an Institute of National Importance by an Act of Parliament. Here the students are admitted through All India Entrance Exam- Joint Entrance Exam (JEE Main). NIT Mizoram is an Institute situated in the scenic beauty of Mizoram, wrapped between clouds and mountain rocks, which add to its beauty. Being amongst the most educated states of our country with a literacy rate of 91%, it beholds a very peaceful and calm environment suitable for studies. The Institute, to cope with the present competitive needs, comprises of laboratories with the latest equipment and installed with best & latest software.</p>	<p>Aizawl is the capital of the state of Mizoram in India. It is the largest city in the state. It is also the centre of administration containing all the important government offices, state assembly house and civil secretariat. The weather remains pleasant throughout the year. Average temperature during the month of December is 12 °C.</p> 
<p align="center">Contact Details</p> <p>Dr. Pankaj Kalita/ Dr. H. Lalhmingsanga Email: pankajk@iitg.ac.in/ hlalhmingsang@gmail.com Mobile: +919954905307/ +917085847427 For more details please visit the conference website: http://www.iitg.ac.in/ceer/Waste2Energy/index.html</p>	<p align="center">How to reach NIT Mizoram</p> <p>By Air: The nearest airport is Lengpui (Aizawl) which is approx. 35 km from NIT Mizoram campus. The airport is well connected with major cities of India via Guwahati and Kolkata airport. There are two daily flights (Air India and Jet Airways) between Kolkata via Guwahati and Aizawl. Pre-paid taxi is easily available from the airport to reach the Institute.</p> <p>By Train: Silchar is the nearest railway station to Aizawl. The journey (by road) from Silchar to Aizawl may take approx. 6 hrs by TATA Sumo (share basis) and are available from Mizoram Circuit House, Sonai Road, Silchar.</p> <p>By Road: Guwahati to Aizawl: Private Buses (Network, Capital, etc.) are available from Guwahati. Booking Counters for these buses are located at Paltan bazaar. The bus usually leaves at 02:00 PM from Guwahati. The journey to Aizawl by bus is approx. 20 hrs. Apart from that, Tata Sumo services are available from Mizoram House, Christian Basti, GS Road, Guwahati.</p>	<p>Tourist attractions around Aizawl City:</p> <ul style="list-style-type: none"> ❖ KV Paradise ❖ Phulpui Grave ❖ Solomon`s Temple ❖ Hmuifang Tlang ❖ Vantawng Khawhthla ❖ Reiek Heritage ❖ Falkawn Village ❖ Mizoram State museum   <p align="center">Accommodation and travel allowance</p> <p>Accommodation and travel allowance will not be provided to participants. Participants are expected to arrange their own accommodation and travels as per their convenience. For details of Hotels and accommodation in Aizawl City participants may visit the conference website.</p>