National Conference

on

Technological Advancements in Waste Management: Challenges and Opportunities - 2023

(TAWMCO – 2023)

December 04-05, 2023
Venue: IIT(ISM), Dhanbad

Organized by

Department of Environmental Science and Engineering
Indian Institute of Technology (Indian School of Mines), Dhanbad-826004, INDIA

In Association with

TEXMiN Foundation, IIT (ISM) Dhanbad
The per capita solid waste generation of the nation is expected to increase in the coming decades due to continuously changing lifestyles and expanding population. According to the CPCB, the country annually produces 160,038.9 TPD of solid waste. If utilized properly, this waste holds significant potential as an energy source. The Indian government has initiated various programs to address these issues. These include the "Swachh Bharat Mission" or "Clean India Mission," which aims to combine efforts from the public and private sectors to promote a cleaner India and Mission LiFE (Lifestyle for Environment) program, which focuses on changes in individual lifestyles, including efficient waste management for sustainable development. These programs are driven by the goal of enhancing living conditions throughout the country, states, and communities while simultaneously conserving the environment and fostering sustainable growth.

By providing a platform for scholarly discourse and knowledge-sharing on waste management, this conference can be viewed as an initiative of IIT (ISM) Dhanbad, showcasing its dedication to the national mission. The conference is intended to facilitate a comprehensive exchange of information on secure, effective, and scientific waste management, recognizing it as an asset or resource. This National Conference aims to contribute partially to the Nationally Determined Contribution to Sustainable Development and the National Action Plan on Climate Change. Moreover, we invite you to share your latest findings and concepts. The National Conference will be held in Dhanbad, India, on December 4 and 5, 2023, and is open to all interested participants.

**Themes**

- Industrial waste management and minimization
- Waste management in the mining sector
- Mineral processing waste management and utilization
- Recycling and managing electronic waste
- Management and upcycling of plastic waste
- Municipal solid waste management
- Construction and demolition waste management
- Hazardous and biomedical waste management
- Technologies for waste to energy/biofuels / biochemicals conversion
- Resource recovery from waste
- Bio-electrochemical waste transformation
- Application of bio-sensor in waste management
- Biological waste treatment and energy recovery
- Industrial effluents and wastewater management
- Application of AI & ML in waste management
- Waste management policies and regulation
- Life cycle Assessment of waste management
- Socio economic aspects and circular economy
- On ground case studies of waste management
- Other related themes
The Indian Institute of Technology (Indian School of Mines) Dhanbad is located in the prime coking coal belt of India which is 260 km away from Kolkata city. The IIT (ISM) Dhanbad has all the facilities of a world-class academic research institute and is fully residential. The Indian School of Mines was formally opened on 9th December 1926, by Lord Irwin, the then Viceroy of India to address the need for trained manpower related to mining activities in the country with disciplines of Mining and Applied Geology. The Indian School of Mines has been conferred the status of Indian Institute of Technology (IIT) On September 06, 2016, by the Government of India and has been renamed Indian Institute of Technology (Indian School of Mines), Dhanbad. Since its establishment, the institute has undergone considerable expansion of its activities and emerged as a reputed technical institution in the country. IIT (ISM) offers B. Tech (4 Years) courses, integrated M. Tech (5 Years) courses, Master of Science/Arts and Technology, Master of Business Administration, and awards Ph.D. Degree. IIT (ISM) Dhanbad has been contributing significantly to the growth and development of mining, mineral, petroleum and geoscience in India apart from other emerging streams.

The Department of Environmental Science and Engineering was created out of the existing Centre of Mining Environment (established in 1987) at Institute in June 2007 with the commencement of a regular B. Tech. Degree in Environmental Engineering under IIT-JEE (first of its kind offered by any national institute). The Department also offers a regular M. Tech program and PhD program in Environmental Science & Engineering. The students of the Department have been well received by the industries like CIL, BCCL, ECL, CCL, NCL, MCL, SECL, CPMFIL, WCL, SCCL, Sterlite, HCL, HZL,NALCO, BALCO, NTPC, L&T, and many other esteem companies along with regulatory authorities like MoEF & CC, CPCB, SPCBs, Research Organizations (CSIR Labs, CIMFR, RRLs) & academic institutes (IITs, NITs etc.), Consultancy Organizations & NGOs. The department is equipped with sophisticated equipment to cater for the needs of research. The department is also accredited with ISO 9001 and OHSAS 18001 Certificates.

The technical papers on the Conference theme are invited for oral/poster presentation. It is intended to publish the proceedings of the Conference. Contributors are requested to submit their camera-ready original technical/review paper through email attachments in MS Word or google form on or before 10.11.2023. The full paper will be reviewed by the Technical Committee before acceptance. Selected high-quality papers will be published in Springer Nature. The email id for sending paper: tawmco2023@iitism.ac.in
Format for preparing paper
Title: Times New Roman 16 bold, Author: Times New Roman 12 bold, Affiliation: Times New Roman 12 italic, Headings: Times New Roman 12 bold, Sub-Headings: Times New Roman 12 bold, Paragraph texts: Times New Roman 12. Figures: Fig.1, Fig.2 etc. Tables: Table 1, Table 2, etc. Figures and tables should be placed at their references in between the text. References should be cited (Kumar et al., 2023) in the main text and arranged in alphabetical order heading references.

About the Venue
IIT (ISM) Dhanbad is situated in the heart of Dhanbad City. Dhanbad is often referred to as the “Coal Capital of India” due to its rich coal reserves. The city and its surrounding areas are home to numerous coal mines, making it a significant hub for coal production in the country. The weather of Dhanbad is very pleasant during December.

Date of Conference: December 04-05, 2023

How to Reach IIT (ISM), Dhanbad
By Train: Dhanbad Junction Railway Station, located just 2.8 km from the IIT (ISM) Campus, is the nearest railway station. By Air: The nearest public airports to Dhanbad are: Kazi Nazrul Islam Airport, Durgapur (85 km), Birsa Munda Airport, Ranchi (140 km), Deoghar International Airport, Deoghar (110 km), Netaji Subhas Chandra Bose International Airport, Kolkata (269 km).

Registration
At least one author of each accepted paper must register for the paper to be included in the conference proceeding.

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<th>Registration Fee (including GST@18% Indian, INR)</th>
<th>Indian, INR</th>
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<tr>
<td>Delegates (Academic &amp; Research Organization)</td>
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<td>Students/Research Scholars</td>
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Registration Fee includes: Registration kit, Hi-Tea, working lunch, tea & snacks, cultural program with gala dinner.
Registration can be done through given Google form or e-mail the filled registration form. Please send the transaction detail after the registration by e-mail: tawmco2023@iitism.ac.in

Registration Link:
https://docs.google.com/forms/d/e/1FAIpQLSIdDGsJFUoGv0ULPEYbDQneC9400NJoafFZlFi3PLzmc60w/viewform?usp=sf_link

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Milestones

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<td>Last date for receipt of abstracts</td>
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<td>Last date for receipt of full papers</td>
<td>November 10, 2023</td>
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<td>Last date for registration of delegates</td>
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<td>Final Registration</td>
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