

International Conference on WASTE Management-2025 (Waste Assessment, Sustainability & Technological Empowerment for Solid and Liquid Waste Management)

SCIENTIFIC PROGRAM SCHEDULE

DAY 1: Tuesday, NOVEMBER 11, 2025; Venue: Smt. Sharada Pai Auditorium, AB2

09:00-Onwards

Registration

10:00-10:45

Inauguration

10:45-11:10 High Tea, Venue: Old Food Court, 2AB

11:10- 11:25

Innovative Technology Interventions for Evolving Society Centric Sustainability Solutions

Prof. Akhilendra Bhushan Gupta, Malaviya National Institute of Technology Jaipur

Chairs:

Prof. Akhilendra Bhushan Gupta & Prof. Ajay Kalamdhad

11:25- 12:00

Science, Innovation and Circular Economy Pathways for Sustainable Waste and Resource Management

Dr. G.V. Raghunath Reddy, Department of Science & Technology, Ministry of Science & Technology, Govt of India

12:00-12:35

From Linear to Circular: Pioneering the Next Generation of Waste Solutions

Prof. Brajesh Kumar Dubey, Indian Institute of Technology Kharagpur, India

12:35-14:00 Lunch, Venue: LHC Building, First Floor and Poster Presentation

Chairs:

Prof. Pradeep Verma & Prof. Monika Sogani

14:00-14:40

Resource Recovery from Solid Waste for Energy and Environmental Sustainability is-À-Vis Circular Bioeconomy

Dr. Ashok K. Pandey, Centre for Energy and Environmental Sustainability, Lucknow, India

14:40-14:55

Transforming Millet Residues into Value-Added Products

Dr. Anirudh Gupta, NIMS University Jaipur

14:55-15:10

Dual Organic Amendments Enhance Soil Fertility Through Improved Microbial And Enzymatic Processes

Dr. Sonia Sethi, Dr B Lal Institute of Biotechnology, Jaipur

15:10-15:40

An Integrated Chemical and Biological Approach for Poly(ethylene terephthalate) Depolymerization and Biopolyol Production

Dr. Lalit Goswami, Kyung Hee University, Yongin, Republic of Korea

International Conference on WASTE Management-2025 (Waste Assessment, Sustainability & Technological Empowerment for Solid and Liquid Waste Management)

15:40-16:00 Tea/Coffee Break, Venue: Old Food Court, 2AB

Chairs: Dr. Prashanth N Suravajhala & Dr. Sudipti Arora

16:00-16:15 Household Waste Generation and Disposal Patterns in Dimapur: Community-Based Strategies Toward Circular and Sustainable Waste Management

Ms. Rajkumari Joyshree Devi, National Institute of Technology, Nagaland

16:15-16:30 Functionalized Graphene Nanocomposite-Anchored Biopolymer Film as Smart Sensor Platform for Fluorescent and Electrical Sensing of Chlorpyrifos

Ms. Emee Das, Institute of Advanced Study in Science and Technology, Guwahati

16:30-17:00 Impacts of Adding Plastics and Their Degradation on the Integrated Biological Treatment of Food Waste through Anaerobic Digestion Followed by Composting

Dr. KC. Maturi, Gati Shakti Vishwavidyalaya, Vadodara, Gujarat

17:00-17:15 Pyrolyzed Food Waste-Derived Polymer Composite from Wood Apple Shells: A Circular Economy-Based Approach

Ms. Aarushi Goyal, Amity University, Noida

17:15-17:30 Evolution of India's E- Waste policy: An Overview with Global Comparison

Ms. Saharsha Naik, Amity University Mumbai

18:00-19:00 Cultural Program, Venue: Smt. Sharada Pai Auditorium, AB2

19:00-Dinner, Venue: LHC Building, First Floor

DAY 2: Wednesday, NOVEMBER 12, 2025; Venue: Smt. Sharada Pai Auditorium, AB2

Chairs: Prof. Mousumi Debnath & Dr. KC. Maturi

09:30-10:10 Waste to Energy: A Comprehensive Study on Biogas in India
Prof. Ajay Kalamdhad, Indian Institute of Technology Guwahati, India

10:10-10:50 Old and New in Composting and Compost Research
Dr. Yael Laor, Agricultural Research Organization, Volcani Institute, Institute of Soil, Ramat Yishay, Israel

International Conference on WASTE Management-2025 (Waste Assessment, Sustainability & Technological Empowerment for Solid and Liquid Waste Management)

10:50-11:10 Tea/Coffee Break, Venue: Old Food Court, 2AB

Chairs: Prof. Meena Kumari Sharma & Prof. Madan Mohan Sharma

11:10-11:50 **Microwave-Assisted Tetrahydrofuran-Water Pretreatments: Unlocking High Sugar Yields and Platform Chemicals from Agricultural Residues**
Dr. Pradeep Verma, Central University of Rajasthan, Kishangarh

11:50-12:20 **Industrial Scale Thermolysis for Waste Upcycling: Driving Circular Economy and Net-Zero Sustainability**
Prof. Abhishek Sharma, BITS Pilani, Goa Campus, Goa, India

12:20-12:50 **Transforming Sewage Sludge into Biochar for Sustainable Agriculture**
Dr. Rohit Jain, Manipal University Jaipur

12:50-14:00 Lunch, Venue: LHC Building, First Floor and Poster Session

Chairs: Prof. Abhijeet Singh & Dr. Anees Ahmed Yunus Khan

14:00-14:30 **Ecotechnologies and Bioprocesses for the Sustainable Development Goals: Experiences from Waste-Gas Treatment, and Resource Recovery Systems**
Dr. Eldon R Rene, IHE Delft Institute for Water Education, Westvest 7, 2601DA Delft, The Netherlands

14:30-15:00 **Pretreatment of Sludge: A Sustainable and Renewable Energy Recovery Approach**
Dr. Izharul Haq Farooqi, Aligarh Muslim University, Aligarh, India

15:00-15:30 **Solid-State Anaerobic Digestion of Agricultural Residues and Its Concurrent Treatment to Enhance Methanogenesis**
Dr. Vivekanand, Malaviya National Institute of Technology, Jaipur, India

15:30-15:45 **Optimizing Methane Yield Through Co-Digestion of Pig Dung with Food Waste and Water Hyacinth at Varying F/M Ratios and Its Kinetic Analysis**
Mr. Kiran Kottur, Indian Institute of Technology Guwahati, India

15:45-16:00 Tea/Coffee Break, Venue: Old Food Court, 2AB

16:00-17:00 **Panel Discussion**

17:00-18:00 **Valedictory Function**