

Special Session on: E – Waste Management

Industrial revolution followed by the advances in information technology during the last century has radically changed people's lifestyle. Although this development has helped the human race, mismanagement has led to new problems of contamination and pollution. The technical prowess acquired during the last century has posed a new challenge in the management of wastes. Electronic waste or e-waste is one of the rapidly growing environmental problems of the world. In India, the electronic waste management assumes greater significance not only due to the generation of our own waste but also dumping of e-waste particularly computer waste from the developed countries. The hazardous content of these materials pose an environmental and health threat. Basel Action Network (BAN) estimates that the 500 million computers in the world contain 2.87 billion kgs of plastics, 716.7 million kgs of lead and 286,700 kgs of mercury. Computer wastes that are landfilled produces contaminated leachates which eventually pollute the groundwater. Incineration of e-wastes can emit toxic fumes and gases, thereby polluting the surrounding air. Improperly monitored landfills can cause environmental hazards.

Considering the severity of the problem, it is imperative that certain management options be adopted to handle the bulk e-wastes. Governments should provide an adequate system of laws, controls and administrative procedures for hazardous waste management. A comprehensive methodology that provides e-waste regulation and management and proper disposal as well as re-cycling of hazardous wastes is required. E-waste recycling has to be evolved as eco-friendly methodology for reusing, recycling and recovery of metals, glass & plastics with non-incineration methods. We have planned a special session in TIMS – 10 on e – waste management and invite papers on innovative technologies and skills on the following sub themes

- Innovative Green IT
- Technologies for recycling of e- waste
- Management of e- waste
- Environmental and health effects of e- waste
- Legislations for e-waste management

Abstract to be sent to e-waste@itmuniverse.in