

Dr A Ramesh Kumar, Scientist-F, CSIR-NEERI was invited as a panellist at the workshop “Building Bridges for Human Biomonitoring- Chemical Exposures in India's Waste Recycling Sector,” jointly organised by University College Dublin, IIT Delhi and Centre for Science and Environment on 31 August 2026 in Delhi.

In his address, Dr. Kumar highlighted the presence of various additives in plastics, their functional requirements, and how their hazardous properties can contribute to human exposure. These include brominated flame retardants, PFAS, plasticizers, light and heat stabilizers, and antioxidants.

He further explained how the gas-particle partitioning of semi-volatile organic compounds contributes to their long-range atmospheric transport and subsequent human exposure. He also highlighted the limitations of conventional exposure-media-based risk assessment and emphasized the need for population-based biomonitoring to enable more comprehensive and reliable risk assessment of hazardous chemicals.

CSIR-NEERI, as Stockholm Convention Regional Centre plays a crucial role in supporting MoEFCC in risk reduction and management of POPs, and other hazardous chemicals.



