

PLAST2BCLEANED, together with sister projects holds the webinar recycling of plastics: towards a more sustainable plastic treatment in 2030

- The CIRCULAR FLOORING, CREATOR, NONTOX, PLAST2BCLEANED and REACT initiatives join forces to address the current challenge of plastic recycling.
- The online seminar will count with lectures from renowned experts like Esther Zondervan-van den Beuken, Senior Consultant Plastics at TNO; Irma Mikonsaari, Project Manager at Fraunhofer Institute for Chemical Technology; Thomas Diefenhardt, Associate Scientist at Fraunhofer IVV or Muhammad Saad Qureshi, Senior Scientist at VTT-Technical Research Centre of Finland.

Madrid June 17. PLAST2bCLEANED (PLASTics to be CLEANED), a project under the European Commission Horizon 2020 SPIRE (Sustainable Process Industry through Resources) programme will hold on July 1st, 2021, a webinar entitled *Recycling of plastics: Towards a more sustainable plastic treatment in 2030*, together with the CIRCULAR FLOORING, CREATOR, NONTOX, and REACT initiatives.

For two hours, from 10:00 to 12:00 (CEST), the projects will provide their different approaches to the current challenge of plastics recycling through the following presentations, among others:

CIRCULAR FLOORING: Recycling Polyvinyl chloride (PVC) from post-consumer flooring waste. Thomas Diefenhardt, Associate Scientist at Fraunhofer IVV.

CREAToR: Collection of raw materials, removal of flame retardants and reuse of secondary raw materials. Irma Mikonsaari, Project Manager at Fraunhofer Institute for Chemical Technology.

NONTOX: Toolbox of technologies to recycle hazardous plastics. Muhammad Saad Qureshi, Senior Scientist, VTT-Technical Research Centre of Finland.

PLAST2bCLEANED: recycling of Acrylonitrile butadiene styrene (ABS) and High Impact Polystyrene (HIPS), bromine and antimony trioxide from Waste Electrical and Electronic Equipment (WEEE) plastics. Esther Zondervan-van den Beuken, Senior Consultant Plastics at TNO.

More information and registrations on <https://bit.ly/PLAST2jw>



About PLAST2bCLEANED

The overall aim of [PLAST2bCLEANED](#) is to develop a human and environmentally safe recycling process for Waste Electrical and Electronic Equipment (WEEE) plastics in a technically feasible and economically viable manner.

Three material loops will be closed: (1) polymer; (2), bromine fraction; and (3) antimony trioxide fraction.

About Circular Flooring

[Circular Flooring](#) aims to establish a circular recycling process for plasticized PVC from post-consumer waste flooring. In order to avoid the loss of valuable resources, increased CO₂ emissions and other environmental burdens of waste disposal, it is necessary to establish closed recycling loops for various material streams, as for example PVC floor coverings. Therefore, the Circular Flooring consortium is further developing the CreaSolv® Recycling Process to separate the PVC-resin from post-consumer floor coverings from legacy plasticisers (phthalic acid esters) that do not conform to the EU REACH-Directive.

About CREATOR

[CREATOR](#) is a project focused on process development and demonstration to remove hazardous, already banned bromine-containing flame-retardants from waste streams using continuous purification technologies: supercritical CO₂ and cost-effective solvent-based processes using natural deep eutectic solvents (NADES) in twin-screw extruders. CREATOR will cover the whole value chain, starting from collecting thermoplastic waste streams from building and construction (B&C) and from waste electrical and electronic equipment (WEEE). The project will implement ways to collect secondary raw materials, identify the presence of hazardous flame retardants, remove these contaminants from the materials and finally reuse the materials.

About NONTOX

[NONTOX](#) project is a combination of multiple recycling technologies to recycle hazardous plastic waste generated from Waste Electrical and Electronic Equipment (WEEE), End of Life Vehicles (ELV) and Construction and Demolition Waste (CDW). The unique combination of mechanical and chemical recycling technologies imparts several techno-economic benefits over single conventional methods.

About REACT

The [REACT](#) project addresses the management of waste acrylic textiles coming from outdoor awnings and furnishing. A crucial issue is the analysis and removal of finishing substances that affect the secondary raw material purity and their management. Then a mechanical recycling process will be implemented to obtain second life fibre and fabrics, which performance will be tested for the best application. A full process to remove hazardous materials on finishing of waste acrylic textile will be investigated and developed, together with a safe utilisation and disposal of removed substances.

