EFCE Spotlight Talks

Section on Sustainability

30 October 2026

14:00-16:15 CET

EFCE

Chemical Recycling of Plastics-recent Developments in Thermochemical Technologies

Chemical, thermal and solvothermal conversion routes such as pyrolysis and hydrothermal liquefaction (HTL) offer complementary pathways for transforming plastics waste into valuable liquid fuels, chemicals, and monomers. This session will discuss recent advances in these areas. The webinar aims to highlight how these thermochemical technologies can complement mechanical recycling to support a circular plastics economy. Join us for an engaging discussion on the state of the art and future directions for converting plastics via chemical technologies.

PROGRAM

14:00	**Welcome and introduction** Prof. Antonis Kokossis, Chair Section Sustainability Ass. Prof. Shiju Raveendran, Catalysis Eng. Group, Univ. Amsterdam - The Netherlands Jarka Glassey, EFCE President
14:10	**Advances in solvothermal molecular recycling of PET** Prof. Phillip E. Savage, Inst. of Energy and the Environment, Penn State University - USA
14:40	**Chemical recycling of plastics: constraints and opportunities** Dr. Ahmad Al Farra, TotalEnergies Research & Technology, Gonfreville - France
15:10	**Process intensification in plastic waste pyrolysis through selective microwave heating** Dr. Ignacio Julián Burillo, Grupo de Tecnologías Industriales de Reciclado, Zaragoza - Spain
15:40	**Assessing the economic feasibility of olefins production from plastic waste via hydrothermal liquefaction** Dr. Roni Mallick, Catalysis Engineering Group, University of Amsterdam – The Netherlands
16:10	**Conclusion** Ass. Prof. Shiju Raveendran, Catalysis Eng.Group, Univ.Amsterdam - The Netherlands

REGISTRATION

free of charge but mandatory

Contact: martine.poux@toulouse-inp.fr
n.r.shiju@uva.nl