



3rd Poland — Czech Republic — Germany
Workshop on Integrated Technology Development for
Effective and Sustainable Utilization of Domestic Carbon
Resources

Key topic: Processing of waste plastic material



RECPLAST
16. 1. 2020

Venue: UnicRE
Chempark Zaluzi Area,
Zaluzi 1, Litvinov, Czechia



SCIENTIFIC PROGRAMME

Date: 16th January 2020, 9.30 – 17.00

09:30 – 09:40	Formal opening Tomáš Herink, Jiří Hájek
09:40 – 11:00	Session I – Plastic waste – A Global Challenge
09:40 – 10:00	<i>Circular Economy – Global Challenges</i> Ingo Sartorius, PlasticsEurope
10:00 – 10:20	<i>Circular Economy and Applications in the Chemical industry</i> Pavλίna Kulhánková, Ministry of Industry and Trade
10:20 – 10:40	<i>Thermo-chemical recycling of carbon-contained waste materials – technology developments and research activities at the Fraunhofer IMWS</i> Joerg Kleeberg, Fraunhofer IMWS
10:40 – 11:00	<i>Utilization of products of waste plastics pyrolysis within Unipetrol group</i> Jiří Hájek, UniCRE
11:00 – 11:20	Coffee break



11:20 – 12:40

Session II – Chemical Recycling Technologies

11:20 – 11:40

Chemical recycling as an emerging opportunity towards increasing circularity of plastics

Kazimierz Borkowski, PlasticsEurope Polska

11:40 – 12:00

Assessment of existing chemical recycling technologies

František Vörös, Robert Suchopa, both UniCRE

12:00 – 12:20

Flame retardants and their presence in the products made of recycled plastics

Marek Staf, UCT Prague

12:20 – 12:40

Discussion I + II

12:40 – 13:30

Lunch

13:30 – 14:50

Session III – Plastic waste pyrolysis

13:30 – 13:50

Thermal cracking of organic compounds – theoretical principles

Petr Zámotný, UCT Prague

13:50 – 14:10

Pyrolysis of plastics – from structure to product utilization

Jaromír Lederer, Jan Hubáček, both UniCRE

14:10 – 14:30

Comparison of thermal and catalytic cracking of polyalkenes in batch and flow laboratory reactors

Elena Hájeková, STU Bratislava



- 14:30 – 14:50 *Pyrolytic processing of waste plastic as a part of circular economy*
Aleksander Sobolewski, ICHPW
- 14:50 – 15:10 Discussion
- 15:10 – 15:30 Coffee break**
- 15:30 – 16:50 Session IV – Perspective of the industry**
- 15:30 – 15:50 *Pilot scale operation & commercialization of depolymerising technology for waste plastics*
Eduard Wipplinger, Lubomír Lukáč, both PLASTOIL Europe
- 15:50 – 16:10 *Plastics from e-Waste: Challenges to be addressed*
Jan Vrba, ASEKOL
- 16:10 – 16:30 *Development of concept for waste plastic utilization in Poland*
Tomasz Chmielniak, ICHPW
- 16:30 – 16:50 Discussion
- 16:50 – 17:00 Closing words**
Tomáš Herink, Jiří Hájek