



Dear Sir or Madam,

we wish you a happy new year and hope that you had a healthy and vigorous start into the year 2021.

At the end of 2020 we were able to look back on two years of Fraunhofer Cluster Circular Plastics Economy CCPE. We started with the goal of shaping the change from a linear to a circular plastics economy and have already reached important milestones along the way. We have been able to present a number of innovations to you here, such as odorless recyclates, chemical recycling of plastic compounds, Circular Readiness Level<sup>®</sup> (CRL), the Innovation Radar etc.

We also have planned a lot for 2021. In a new series of events, Fraunhofer CCPE compact, we would like to briefly present highlights from the CCPE research and establish a dialog with you. In this newsletter you can read about the scientific results from plastics research that we have in store for you.

We are already looking forward to new challenges and working on circular solutions that we may tackle together with you.

Yours sincerely

Prof. Dr. Eckhard Weidner  
Head of Cluster

## Fraunhofer CCPE compact – News for the circular plastics economy

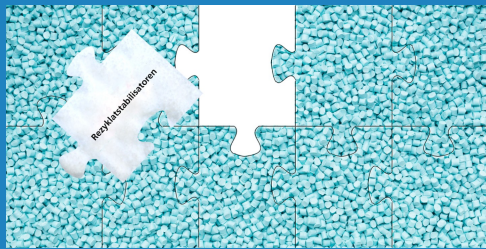


How can the transformation to a circular plastics economy succeed? Which innovations are winning the battle? How can materials and products be designed in a circular way? The answers require partners, creative ideas and experience from several sectors. This is exactly what we want to achieve with our new online event series “Fraunhofer CCPE compact” – our first topic “New possibilities for PLA – special properties under circular conditions” on February, 17 2021 from 14:00 – 16:00. Event language is German.

News from the CCPE research

Division Materials

Improving recyclate quality with stabilisers – a cooperation between industry and Fraunhofer shows how it can be realised

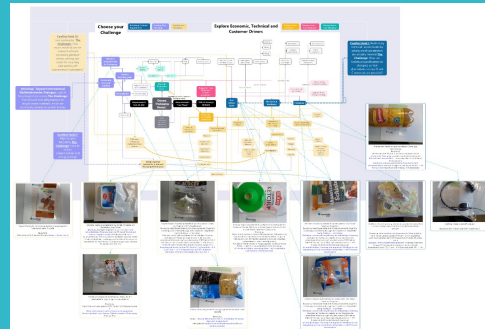


Processing difficulties, quality problems and insufficient ageing stability are frequent complaints when recyclates are used instead of new plastics. On the other hand, the circular plastics economy needs a significant increase in recycling rates, which also makes ecological sense. What needs to be done to successfully place recyclates on the market? Together with L. Brüggemann GmbH & Co. KG, CCPE researchers are developing new additive systems.

MORE INFO

Task Force "Zerleg's"

Design for recycling – How packaging becomes circular

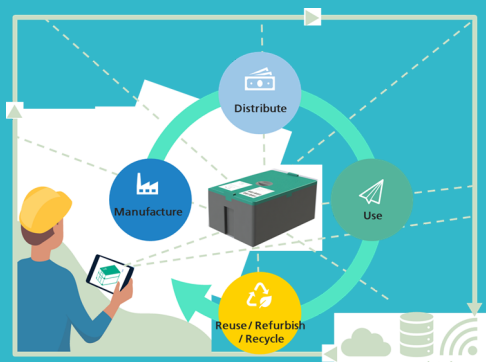


How to increase the recyclability and therefore the recycling rates of sales packaging: this is the subject of the CCPE task force "Zerleg's". The pressure on retailers to offer recyclable sales packaging (circular design) is increasing. This is not only ensured by the legislator with continually increasing recycling quotas, but also more and more by the purchasing decisions of consumers.

MORE INFO

Division Systems

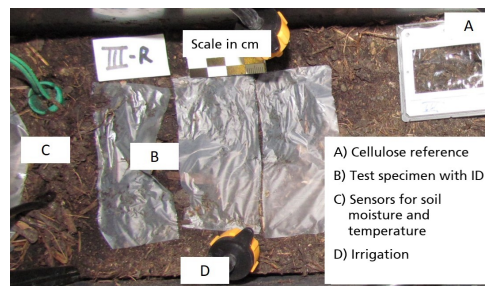
Do you know the life cycle of your products properly?



Most companies know where and in what condition their products are at any given time. At least when it comes to production and distribution. However, they have little to

Division Materials

Everything under control: biodegradation of plastic films



How does a biodegradable plastic degrade? What needs to be considered in the product design of biodegradable plastic products? CCPE employees analyse the fragmentation and polymer-physical plastic properties on the way to the metabolisation of the plastic

no information about the further life cycle of their products and therefore give away economic and ecological potential.

[MORE INFO](#)

by microorganisms.

[MORE INFO](#)

## You can meet us here

17. Februar 2021

**Fraunhofer CCPE compact: Neue Möglichkeiten für PLA - Besondere Eigenschaften unter zirkulären Bedingungen**

Online Event

Event language: German

[MORE INFO](#)

9 to 10 March 2021

**Plastic Recyclates Forum 2021**

Online Event

Organiser: HANSER Tagung

[MORE INFO](#)

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