

VORTRAGSEINLADUNG

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Catalyst effects in Polyethylene

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Abstract

Although polyolefins (PO) are known since more than 50 years and they account for almost 50% of the plastics production, there are still many open questions in the field of polyolefin chemistry. This presentation will focus on Ziegler-Natta catalysis and ways to influence polymer properties at various scales by either adjusting the catalyst chemistry and/or the polymerization conditions. The effects on polymer micro-structure (e.g. molar mass distribution, co-monomer composition) will be addressed.

Biography of Christian Paulik

Univ.-Prof. DI Dr. Christian Paulik is head of the Institute for Chemical Technology of Organic Materials at the Johannes Kepler University in Linz, Austria. He received his Master and PhD in Technical Chemistry at the Johannes Kepler University Linz in the field of polymer science. In 1995 Christian Paulik started his career at Borealis, a major company in the field of Polyolefins, in the central R&D department. After various positions in the global R&D organization of Borealis he moved back to academia in 2010, being appointed as Full Professor at the Johannes Kepler University. In his current research Prof. Christian Paulik is focusing on polymerization and structure-property relations of Polyolefins and special polymers, e.g., melamine based materials, 3D printing of polymers and high pressure biotechnology. He is also active in the field of polymer additives and biobased resources.