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Polymer Dynamics in Blends KARIN BICHLER, JENNIFER ZEHNER, GERALD SCHNEIDER, Louisiana State University Chemistry Department — Depending on their miscibility mixtures of polymers or polymers and nanoparticles tend to phase separate. Such systems are of fundamental interest. For example, in case of a blend of two polymer melts a dynamic asymmetry may be generated. It could slow down the chains in one phase or accelerate the chains in the other phase. Due to their heterogeneity these systems are of fundamental interest. Using a certain technique it is very challenging to access all of the information necessary to understand the materials and the interplay between different phases. In order to enhance our understanding, we apply dielectric spectroscopy, scattering experiments and atomic force microscopy to reveal both structure and dynamics and to unravel the fascinating processes.

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