

Univ.-Prof. DI Dr. Jürgen Miethlinger MBA and Institute of Polymer Extrusion and Compounding with Institute of Complex Systems-3, FZJ cordially invites you to guest lecture:

Structural Rheology
Monday, June 27th, 2016
Room S3 047 time: 13:45 - 15:15

The seminar focuses on
The Calculation of Structural Aspects from Rheometric Data

Outline:

Structural Rheology is a powerful and largely underestimated means for calculating structural aspects of complex fluids like colloids, polymer solutions and melts from their rheometric data. In general, those data sets can be reduced to the relevant transfer coefficients of the system by standard software. It will be shown, how those transfer coefficients may provide an idea on the underlying structure of soft matter. The related calculations are highly relevant in industry and academia.

Two hands-on Examples will be covered:

- 1) *Volume Fraction of Filler Content in Polymer Melts*
- 2) *Molecular Mass Distribution of Polymer Melts*

Bachelor students of Polymer Technologies and Engineering and Master students of Polymer Technologies and Science (PTS), Management in Polymer Technologies (MPT) as advanced Bachelor and Master students of chemistry, polymer-related studies and physics are warmly invited. The calculations are blackboard based. An online-script will be made available to listeners only.

The lecturer has studied MSc Polymer Technologies and Science at the Johannes Kepler University in Linz and completed his diploma at the Institute of Polymer Extrusion and Compounding (ipec) before moving to Germany. He works at the Institute of Complex Systems-3 in the Helmholtz Forschungszentrum Jülich, Germany and is affiliated with the Katholieke Universiteit Leuven, Laboratory of Soft Matter and Biophysics in Belgium.

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Christian Lang ICS-3 Soft Matter
Physics <http://distruc.eu>

If you want to attend the guest lecture please mail a.s.a.p. your details to elisabeth.puehringer@jku.at