

Invited lectures

- PL1 **Scheler**: Internal Dynamics and Charges in Soft Materials – A Magnetic Resonance Investigation
- PL2 **Hiller**: Separation of polymer mixtures and block copolymers by diffusion ordered spectroscopy
- PL3 **Simonutti**: Xenon the explorer of free volume: applications of ^{129}Xe NMR in polymer science
- PL4 **Fischer**: Automated Particle Analysis from 1 to 500 μm with a Combination of Optical and FTIR and Raman Microscopy to Determine Microplastics in Environmental Samples
- PL5 **Hinrichs**: Multiscale Infrared Spectroscopic Analysis of Thin Polymer Films
- PL6 **Lyon**: About Interfaces in Epoxy-Metal Systems (incl. AFM-IR)
- PL7 **Thomas**: Interfacial Modification in Nanocomposites to Tailor Functionalities
- PL8 **Weidner**: Polymer mass spectrometry at BAM with special emphasis on MALDI and ESI

Oral contributions

- O1 **Wilhelm**: On-line benchtop correlation of molecular mass distribution and chemical composition via SEC-IR/-NMR and -QCL
- O2 **Pasch**: Column- and Channel-Based Polymer Fractionations Using Spectroscopic Methods as Information-Rich Detectors
- O3 **Eigenmann**: Fast (100 Hz) Reaction Monitoring of Curing Processes with Dual-Comb Spectroscopy
- O4 **Eder**: Application of mobile spectroscopic devices for on-site material analysis and failure detection
- O5 **Moravkova**: The comparison of the first stages of electrochemical and chemical oxidation of aniline at different pH using vibrational spectroscopy and spectroelectrochemistry
- O6 **Olschewski**: High resolution structural and chemical imaging of polymer materials using correlative microscopy
- O7 **Iacob**: Molecular Dynamics of Polyfarnesene as Studied by Broadband Dielectric Spectroscopy and Oscillatory Shear Rheology
- O8 **Gitsas**: Effect of biaxial stretching on the structure and dynamics of polypropylene films
- O9 **Bredacs**: Applicability of multivariate data analysis of FTIR and IR-microscopy data of chlorine dioxide aged PE pipe materials
- O10 **Ebner**: High-Brightness Mid-Infrared Lasers For Polymer Analysis
- O11 **Huber**: nano-FTIR correlation nanoscopy of polymer materials
- O12 **Kanaki**: Characterisation of on-site aged polymers with vibrational spectroscopy in the context of heritage science
- O13 **Kerstan**: Quantum Cascade Laser (QCL) based IR Imaging and handheld mobile Spectroscopy
- O14 **Spoljaric-Lukacic**: Failure analysis of polymeric composites by FTIR-ATR-Imaging
- O15 **Furchner**: Hyperspectral Infrared Laser Ellipsometry For Polymer Film Analysis
- O16 **Scherzer**: Monitoring the Thickness Distribution of Ultrathin Printed PEDOT:PSS Layers by NIR Hyperspectral Imaging
- O17 **Nagy**: Mass-remainder Analysis (MARA): a multifunctional tool for characterization of copolymers and copolymer blends
- O18 **Müller**: in-situ-ATR-FTIR Spectroscopy at Polyelectrolyte Based Coatings
- O19 **Hild**: In-situ monitoring of chemical and mechanical properties of crosslinked polymers by combining Raman-Spectroscopy and Rheometry

Posters

- P1 **Schwarzinger:** Polymer mass spectrometry - ESI, MALDI and their combination with chromatography
- P2 **Hashimov:** Characterization of various multi-arm polyether polyols by Mass Spectrometry
- P3 **Kanaki:** GEPARD: An open-source solution for automated particle recognition and correlative spectroscopy for microplastics analysis
- P4 **Kehrer:** Surface Analytical Study of Polymers Functionalized with a Novel Cold Atmospheric Pressure Plasma Jet
- P5 **Kuki:** Mass spectrometric characterization of epoxidized vegetable oils for biopolymers
- P6 **Malanin:** Characterization of the metal-polymer interphase region by electron microscopy and micro- / nanoscale spectroscopy
- P7 **Malanin:** Nanochemical microscopy of polymer blends. Characterization tool comparison: AFM-IR, RAMAN, EDX
- P8 **Nagy:** Determination of polymer distribution of PTHF by HPLC-UV and kinetic study of 1,3-xylylene diisocyanate with mPEG and PTHF
- P9 **Schlattmann:** Influence of isomer structure of additives on the phase transition of thermoresponsible Poly(N-isopropylacrylamide) microgels
- P10 **Santos:** AFM-IR-Based Nanoscale Chemical Imaging
- P11 **Saller:** Investigation of three-component polyesters using MALDI/ToF-mass spectrometry