

Oral Presentations

Sunday, September 8 th			
	18:00-20:00	Registration, Get together	
Monday, September 9 th			
	08:00	Registration	
	09:00	Opening	
FTIR/NIR/Raman	09:10	PL1- Harumi Sato	Marine degradation of biodegradable polymers studied by 2D- and 3D-Raman imaging
	09:55	L1 - <u>Suzanne Morsch</u> , S. Lyon, C. Di Lullo	Micro- and Nanoscale Infrared Analysis of Interfacial Chemical Gradients in Epoxy-Amine Resins
	10:20	L2 - <u>Friedrich Fink</u> , J. Falkenhagen	Comparison of handheld and compact NIR-spectrometers for classification of technical lignins
	10:45	Coffee break/ Exhibition	
	11:15	L3 - <u>Martin Müller</u> , M. Hofmaier, P. Flemming, A. Münch	Dichroic ATR-FTIR characterization of oriented (BIO)polymer Films
	11:40	L4- Robin Lenz	MPX_specDB: A FAIR spectroscopic data collection for enhancing detection of weathered and biofouled polymers
	12:05	Lunch / Exhibition / Poster session	
NMR	14:35	PL2 - Wolf Hiller	Diffusion Ordered Spectroscopy - A very useful tool for the determination of molar masses of polymers
	15:20	L5 - <u>Amelie Frison</u> , Y. Masmoudi, P. Thureau, E. Badens, F. Ziarelli, S. Viel	An Innovative Solvent-Free Polymer Sample Preparation Method for DNP SSNMR
	16:00	Bus shuttle	
	17:00-21:00	Dinner, City tour across the Spree through historic and modern Berlin,	

Tuesday, September 10 th		
	08:00	Registration
MS	09:00	PL3 - Laurence Charles Analytical Degradation for Mass Spectrometry of Insoluble Synthetic Polymers
	09:45	L6 - Frederic Progent Fluoropolymer analysis by Thermodesorption/Pyrolysis-DART-FT-ICR-MS
	10:10	L7 - Tibor Nagy Copolymers by Mass Spectrometry, Beyond the Chemical Composition
	10:35	Coffee break / Exhibition / Poster
	11:05	PL4 - Clemens Schwarzinger The Influence of Sample Preparation on Polymer Mass Spectrometry
	11:50	L8 - Klara M. Saller Exploring MALDI Mass Spectrometry for the Analysis of Citric-Acid Based Polyesters
	12:15	Lunch / Exhibition / Poster
Microplastics	13:15	PL5- Mareike Schumacher Enhancing Microplastic Characterization: Integrating Raman Microscopy and Pyrolysis GCMS for Atmospheric Samples
	14:00	L9 - <u>Yosri Wiesner</u> , C. Drago, S. Muniategui Lorenzo, U. Braun, K. Altmann Sample preparation methods of food and environmental matrices for microplastics analysis using TED-GC/MS
	14:25	L10 - <u>Gabriele Eder</u> , Y. Voronko, M. Washüttl, D. Fischer, K. Enders, E. Cseperke-Vizsolyi, M. Löder, B. Hufnagl Analytical Tools for Determining the Potential Occurrence of Microplastics in Food and Beverage
	14:50	L11 - R. Lenz, <u>Kristina Enders</u> , E. Cseperke Vizsolyi, M. Schumacher, J. Lötsch, M. Löder, G. Eder, Y. Voronko, J. M. Andrade-Garda, S. Muniategui-Lorenzo, Ch. Laforsch, D. Fischer ¹ and M. Labrenz Round robin goes around - immobilizing microplastics as a new approach for analytical ring trials
	15:15	Coffee break / Exhibition / Poster
	15:45	L12 - <u>Korinna Altmann</u> , Y. Wiesner, C. Drago, U. Braun, A. M. Giovannozzi, M. Fadda, A. Sacco, S. Muniategui Lorenzo, P.-T. Miclea, N. Benismail, A. Maltseva, B. van Bavel, Reference material candidates for microplastic analysis
	16:10	L13 - <u>Maria Kittner</u> , K. Altmann, S. Hamann, R. Weyer and U. Kalbe Contaminant Emissions from Artificial Turf Sports Pitches – Simultaneous Sampling for Microplastics, PAH and Heavy Metals
	16:35	L14 - <u>Guyu Peng</u> , N. Ashok Kadam, M. Schmidt, D. Materić, T. Reemtsma Detection of Nanoplastics by Surface-Enhanced Raman Spectroscopy in Environmental and Human Matrices

Wednesday, September 11 th			
Into the Nanoscale-FTIR/Raman/AFM	09:00	PL6 - Miriam Unger, <u>Heinz W. Siesler</u> .	IR and Raman Spectroscopic Imaging of Polymer Micro-structures: from μm to nm Scale and from Separate to Simultaneous Measurements
	09:45	L15 - <u>Mikhail Malanin</u> , D. Fischer, K.-J. Eichhorn (em.)	Nanochemical Microscopy of Polymers – A Chase For A True Image
	10:10	L16 - <u>Bogdan Sava</u> , L. Mester, A. J. Huber, A. A. Govyadinov	Infrared correlation nanoscopy with unprecedented spectral coverage
	10:35	Coffee break / Exhibition / Poster	
	11:05	L17 - Dorothee Silbernagl	Nanoscale structure-property correlation of polymer interphases by means of AFM force spectroscopy
	11:30	L18 - <u>Ievgeniia Topolniak</u> , D. Silbernagl, P. Szymoniak, Z. Tavasolyzadeh, H. Sturm,	Understanding the behaviour of 3D microfabricated Interpenetrating Polymer Networks through thermal and micromechanical analysis
	11:55	L19 - Andreas Thünemann	Development of Reference Materials for Determination of Nanoplastics in Aqueous Media
	12:20	Closing remarks / Farewell	
	13:30	Witec Workshop	

Poster Presentations

P1	<u>H. Niess</u> , M. Wilhelm	Correlation of Mechanical Properties and Molecular Properties: In Situ RheoNMR and RheoIR Measurements of Poly(vinylamine) Hydrogel Formation
P2	<u>S. L. Palloks</u> , M. Wilhelm	Investigation of the Effect of the Gradual Increase in Strain in a Step Shear Experiment on the Molecular Dynamics of Hydrogels
P3	<u>Johanna Tratz</u> ¹ , Marianne Gaborieau ¹ , Markus Matz ¹ , Michael Pollard ¹ , Manfred Wilhelm ¹	Potential of Diffusion NMR at Low Field (90 MHz) to Determine Polymer Molar Masses and Explore their Heterogeneity
P4	<u>Mikhail Malanin</u> ¹ , Subhradip Mandal ¹ , Arpita Kundu ¹ , Amit Das ¹	Rheo-optical FTIR study of ionic network in modified natural rubber
P5	<u>Anika Goecke</u> , Manfred Wilhelm	Semi-quantitative Analysis of Oxygen-Containing Components in PE Pyrolysis Oils using a 90 MHz Benchtop NMR Spectrometer
P6	<u>Tobias Pietsch</u> , <u>Annika Eisenschmidt</u> , Thomas Elschner, Kerstin Müller	Synthetic and Bio-based Polymers in Paper Products
P7	<u>Gergő Róth</u> ¹ , Ákos Kuki ¹ , Veronika Pardi-Tóth ^{1,2} , Dávid Nyul ^{1,2} , Zuura Kaldybek Kzyzy ^{1,2} , Isaac Alexander Iglesias Palacios ¹ , Máté Benedek ^{1,2} , Lajos Nagy ¹ , Miklós Zsuga ¹ , Sándor Kéki ¹ , Tibor Nagy ¹	Advanced copolymer analysis by MALDI-TOF MS up to 15 kg/mol
P8	<u>Veronika Pardi-Tóth</u> ^{1,2} , Ákos Kuki ¹ , Gergő Róth ¹ , Máté Benedek ^{1,2} , Miklós Zsuga ¹ , Tibor Nagy ¹ , Sándor Kéki ¹	Combining RAFT polymerization and MALDI-TOF MS to study multiblock copolymers of acrylamide derivatives
P9	<u>Máté Benedek</u> ^{1,2} , Veronika Pardi-Tóth ^{1,2} , Gergő Róth ¹ , Miklós Zsuga ¹ , Tibor Nagy ¹ , Sándor Kéki ¹	Investigating Polymerization of Acrylamide Derivatives by MALDI-TOF MS

P10	<u>Klara M. Saller</u> , Daniel C. Pernusch, Clemens Schwarzinger	<i>MALINTO</i> – MALDI Interpretation Tool for Enhanced Peak Assignment of Complex Synthetic Polymers
P11	<u>Karsten Hinrichs</u> ^{1,2} , Andreas Furchner ² , Fatima Akhtar ² , and Jörg Rappich ²	Analysis of IR spectra of thin films
P12	<u>J. Lötsch</u> ¹ , K. Enders ¹ , R. Lenz ¹ , F. Fischer ² , E. Kanaki ³ , D. Fischer ¹	Comparison of Two Automated Softwares for the Fast Analysis of MP With Raman Microspectroscopy
P13	Yosri Wiesner, Paul Eisentraut, Maria Kittner, Korinna Altmann	Seasonal microplastic concentrations along the rivers Rhine and Danube
P14	Andreas Thünemann	Development of Reference Materials for Determination of Nanoplastics in Aqueous Media