

Sunday April 23rd 2023		Monday April 24th 2023		Tuesday April 25th 2023		Wednesday April 26th 2023		Thursday April 27th 2023	
Short Courses		Session 1	Session 2	Session 1	Session 2	Session 1	Session 2	Polymer Analysis meets Industry	
08:30		Registration		Special Sessions in Celebration of Harald Pasch's 70th Birthday					
09:00		Opening ISPAC 2023		Plenary		Plenary		Welcome	
09:10		Plenary		Polymer Characterization for Interaction Chromatography		Chain-walking catalysis from the theory point of view: From synthesis to both block molecules		Part 1: SASOL, South Africa	
09:20		Yong Ming Ling		Taiyun Chang		Jens-Uwe Sommer		presented by Dr. John Motzer	
09:30		Keynote		Demersing Accurate Data from SEC-MALS Using Mixed Solvents		Keynote		Part 2: Borealis, Austria	
09:40		Comprehensive two-dimensional SEC of terpenes using HPLC and FPLC: How far can we go?		Andri Sniegol		Pyrrolidone based polymers in advanced polymer materials		presented by Dr. Andreas Albrecht	
09:50		André de Villiers		From Process to Polymer Microstructure - A Journey through Experiment, Modeling & Simulation and Polymer Characterization		Keynote		Part 3: DOW Chemical Company, The Netherlands	
10:00		Keynote		Panel discussion		Challenges for Adoption of 2D-LC Method Development		presented by Dr. Mubasher Basir	
10:10		Dielsitic polymer integration: functionalized membranes for water remediation		Markus Busch		Panel discussion		Part 4: SABIC, The Netherlands	
10:20		Keynote						presented by Dr. Anthony Ndipiro	
10:30		Short Course 1: Field Flow Fractionation						Part 5: BASF, South Africa	
10:40		held by						presented by Nonhlanhla Sibhlo	
10:50		Dr. Martin Gostler and Dr. Ugozzio L. Meza (PF Dresden, Germany)						Lunch	
11:00		Registration		Break		Break			
11:10									
11:20		Short Course 2: Mass Spectrometry		Keynote		Keynote			
11:30		held by		Bobased and biodegradable polymers: Analytical challenges		Polymer engineering for electrochemical sensors and biosensors			
11:40		Dr. Hendrik Frisch (QUT, Australia)		Jana Falkenhagen		Emmanuel Inuocha			
11:50		Keynote		Tracking light gated transformation of macrocyclics in solution and gel-phase via MS		Quantitative particle analysis by a combination of optical microscopy with FTIR and Raman spectroscopy: advanced automation enhanced by Machine learning and data independent			
12:00		Hendrik Frisch		Polymers for pollutant extraction and separation from water		Dieter Fischer			
12:10		Keynote		How can characterization of hydrogels lead us to fabricate "bottle biosensors"?		Machine learning of sequence and conformation programmed material properties			
12:20		Chris Kojale		Julius Vansco		Marco Werner			
12:30		Application of MS in polymer industry		Investigations on the extraction of nitrogen-based modifiers on the reactivity of self-impregnation polymers with MS		Analysis of polyoxetane (polyoxetane) using separation techniques highlighted with quantitative detection			
12:40		Julius Vansco		Biostatic nanomaterials supported on polymer nanofiber membranes for removal of PFAS from aquatic matrices		Sampat Singh Bhai			
12:50		Keynote		MBART thermoresponsive hydrogel fibers and nanofibers from poly(DDM) gradient copolyelectrolytes		Michele Mauri			
13:00		MB for polymer reaction engineering - monitoring reactants in multiphase polymer based hybrid reactors		Peter Malton		Time domain NMR of sustainable polymer materials from agriculture			
13:10		Clemens Schwarzwinger		Wilhelm H. Le Roux		Characterization of differently branched polyoxetanes			
13:20		Product seminar		Lunch, Poster		Advancing the Strength of Electrolyte/Lib. Nanobooks from Organic Chemistry to Polymer Chemistry			
13:30						Trace polymer analysis by a soft-focus pyrolysis-GCMS system coupled to a newly developed sampler			
13:40						Domènec Vell			
13:50									
14:00									
14:10									
14:20		Short Course 3: Thermal Analysis and Rheology		Keynote		Keynote			
14:30		held by		Polymers for the treatment of membrane proteins		Neutron scattering as a powerful probe to characterize soft matter systems			
14:40		Dr. Volker Hirschberg (KIT, Germany)		Bert Klumperman		Ralf Schwilke			
14:50		Keynote		Analysis of LRAM polymerizations by ATR-FTIR: Necessity of the low-angle and Debye-Coupled Mode (DCM)		Microchemical chromatography of polymer systems, biofluids and particulates			
15:00		Andreas Mitzel		Frédéric Volleau		Mihail Malinin			
15:10		Determination of PDEPAA-based hydrogel system reinforced with lignin and zinc NPs for biomedical applications		Analysis with online 2D correlation THZF		Valerian Hirschberg			
15:20		Andreas Mitzel		Ugozzio L. Meza		Recent Phenomena in Polymerization Reactions: New Findings and Practical Application			
15:30		Characterization of stimuli-responsive polymers for targeted drug delivery		SEC of PEEK in mixtures of acids and chloroform		Nicolas Longieras			
15:40		Dirk Kackling		Nicolas Longieras		Separation and characterization of recombinant Drug Systems based on Polymers and Proteins			
15:50		Keynote		Comprehensive analysis of immobilized drug delivery systems by integrated characterization methodologies		Wolfgang Radke			
16:00		Multiple detection SEC: Understanding the scaling properties of anionically crosslinked cationic nanoparticles		Zornelle Viktor		Monitoring formation during in-situ molding of amorphous thermoplastics			
16:10		Keynote		Challenges in the characterization of poly(amide) based nanocomposites		Effect of recycling on the properties of PBAT, PBS, PBAT-PBS blends and PBAT composite			
16:20		Keynote		Novel photoresists for design of hybrid smart polymers and materials		Ines Kuhnert			
16:30		Keynote		Terry Steale		45 Years of polymer(PS)-in personal account			
16:40		Keynote		Understanding molecular complexity of biodegradable polymer: Comprehensive analysis of aliphatic polyesters		Harald Pasch			
16:50		Keynote		Design and preparation of PLGA/PCL, CO3BNC nanocomposites with excellent thermal stability		Characterizing the properties and performance of highly filled CaCO <sub>3</sub> nanocomposites			
17:00		Keynote		Dirk Kackling		Helen Pluta			
17:10		Keynote		Structural function characterization of nanoparticles based on photo-crosslinked polymeric vesicles		Transportation to conference dinner from STIAS			
17:20		Keynote		Silvia Moreno		conference dinner (upon registration)			
17:30		Keynote		Chemically sensitive color detection for detection of anastomosis groups: SEC-MALS, SEC-NMR, SEC-HRGLC and FT-IC					
17:40		Keynote		Manfred Wilhelm					
17:50		Keynote							
18:00		Keynote							
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19:00		Keynote							