

EPNOE Workshop on Analytics of Polysaccharides



Tuesday, 25 June, 2024

Agenda

- 1:00pm Lukas Schwab, Waters - *"Why polymers can flow and jump – An introduction to the rheology of polysaccharides."*
- 1:30pm Jules Djoukeng, Thermo Fisher - *"Sugar analysis using HPAE-PAD."*
- 2:00pm Break
- 2:20pm Bernd Schäfer, Malvern - *"Molecular Mass and More from Size Exclusion Chromatography – Considerations for Reliable Results."*
- 2:50pm Katrin Römhild, TITK - *"Evaluation of pulps for the lyocell process by means of SEC measurements."*
- 3:10pm Katja Richter, HMC+ - *"Size exclusion chromatography and chitosans - is it love at first sight or should they just be friends? Challenges and hints for consistent measurements."*
- 3:30pm Coffee Break
- 4:00pm Patrick Rühs, ETH - *"Rheological assessment of polysaccharide materials."*



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- 4:30pm Peter Fischer, ETH - *"Rheology: Material sciences meets engineering: How to improve polysaccharide properties."*
- 5:00pm Maria Clara Novaes Silva, ETH - *"From lung surfactants to polysaccharides: New tools for studying multiphase structures and materials."*
- 5:20pm CiattaWobill, ETH - *"Host material viscoelasticity determines wrinkling of fungal films."*
- 5:40pm On-site demonstration
- 7:00pm Social event



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- 8:45am Sonia Ferreira, University of Aveiro - *"Analysis of polysaccharides by ion chromatography: monosaccharide composition and oligosaccharide fingerprinting."*
- 9:05am Patrice Castignolles, Sorbonne University - *"Heterogeneity of chemical composition of polysaccharides and its quantification."*
- 9:25am Daniel Wefers, MLU Halle - *"Influence of different sample preparation procedures on the results of monosaccharide and linkage analysis."*
- 9:45am Nicole Najjoun, SU- Pierre et Marie Curie et UTC - *"Characterization of polysaccharides by Capillary Electrophoresis with photo-oxidation."*
- 9:55am Maria Michela Corsaro, University of Naples - *"Unusual aminosugars in bacterial polysaccharides."*
- 10:05am Coffee Break
- 10:35am Samuel Eyley, KU Leuven - *"XPS analysis of cellulose and derivatives."*



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- 10:55am Emiliano Bedini, University of Naples - *"Structural determination of chemically derivatized polysaccharides: some examples of 2D- vs. 1D-NMR analysis."*
- 11:15am Alistair King, VTT - *"Solution-state NMR of non-derivatised celluloses."*
- 11:35am Lukas Fliri, Aalto University - *"Analytics of Chemically Modified Celluloses: Solution State NMR as a Shortcut."*
- 11:45am Lunch Break
- 12:45pm Discussion on challenges and further activities
- 1:15pm COST application
- 3:00pm End of the workshop

