

Day 1 (January 10, 2022)

13:00-13:10 Opening words

Session 1 Chair: *Mauri Kostiaainen*

- 13:10-13:30 O1 Temperature-dependent dimensional transition from 3D to 2D crystals of a zwitterionic amphiphile Lotta Gustavsson
- 13:30-13:50 O2 Assembly of truncated nanocubes by evaporation-driven poor-solvent enrichment – A time-resolved SAXS study Zhongpeng Lyu
- 13:50-14:10 O3 Self-assembly of iron oxide nanoparticles in the newly installed magnetic sample environment at CoSAXS Martin Kapuscinski
- 14:10-14:30 O4 Self-assembly and dynamics of ellipsoidal colloids and the influence of an external magnetic field studied by SAXS and XPCS Antara Pal

14:30-15:00 *Break (30 min)***Session 2** Chair: *Ville Liljeström*

- 15:00-15:20 O5 Aggregation properties of amphiphilic drugs in oppositely charged microgels Yassir Al-Tikriti
- 15:20-15:40 O6 α -Synuclein interaction with lipid disc micelles Marija Dubackic
- 15:40-16:00 O7 Structure and dynamics of concentrated solutions of self-assembling antibodies Alessandro Gulotta
- 16:00-16:20 O8 The role of histidines in antimicrobial peptides Amanda Eriksson Skog
- 16:20-16:40 O9 Structural investigation of amphiphilic peptides for pesticides biosensors development Barbara Gerbelli
- 16:40-17:00 O10 Using scattering to understand dissolved organic matter in soil Erika Andersson

17:00-19:00 *Poster session, exhibition***Day 2 (January 11, 2022)****Session 3** Chair: *Paavo Penttilä*

- 09:00-09:20 O11 Modelling-assisted scattering analysis of cellulose microfibril bundles in spruce wood Antti Paajanen
- 09:20-09:40 O12 Small-angle X-ray scattering: Characterization of cubic Au nanoparticles using Debye's scattering formula Jerome Deumer
- 09:40-10:00 O13 SANS data processing at LoKI beamline Wojciech Potrzebowski
- 10:00-10:15 O14 Studying the structural change of non-ionic surfactants under shear flow using a laboratory Rheo-SAXS system Andreas Keilbach
- 10:15-10:30 O15 Presentation by Excillum Emil Espes

10:30-10:50 *Break (20 min)***Session 4** Chair: *Adrian Rennie*

- 10:50-11:10 O16 Wood-water interactions investigated with experimental scattering and molecular dynamics simulations Aleksis Zitting
- 11:10-11:30 O17 Small-angle neutron scattering study of the structural relaxation of elongationally oriented, moderately stretched three-arm star polymers Kell Mortensen
- 11:30-11:50 O18 A more complete model on absolute scale for the scattering from bovine casein micelles Jan Skov Pedersen
- 11:50-12:00 Closing

Posters

- P1 Structure, Immunogenicity, and Causing Factors of Peptide Aggregation - A Scattering Approach Ellen Brunzell
- P3 The properties of lipid liquid crystalline micellar phase change with addition of water Jenni Engstedt
- P4 Towards the implementation and application of a novel Rheo-SAXS sample environment for material characterization of cellulose nanocrystals suspensions: a case study Reza Ghanbari
- P5 SAXS CT reconstruction of a test object containing standard scattering samples Christian Gollwitzer
- P6 Size and shape of voids in lactose tablets determined by SAXS and USAXS Johan Gråsjö
- P7 Structure and dynamics of concentrated protein mixtures – a colloid approach Alessandro Gulotta
- P8 Shape Matters in Magnetic-field Assisted Assembly of Colloidal Ellipsoids Mohammad Arif Kamal
- P9 Industrial enzymes and their interactions with Biosurfactants Marcos López Hernández
- P10 What makes chalky teeth crumble? A multimodal high-resolution XRF and WAXS study on MIH-teeth Gudrun Lotze
- P11 Novel methods for determination of the structure of large biomolecular complexes using small-angle X-ray scattering Kristian Lytje
- P12 Temperature-dependent dimensional transition from 3D to 2D crystals of a zwitterionic amphiphile Zhongpeng Lyu
- P13 The influence of SBA-15 morphology on the adsorption of diphtheria and tetanus anatoxins: A SAXS study Pedro Leonidas Oseliero Filho
- P14 Assessing diffusion relaxation of interlayer water in clay minerals using a minimalistic three-parameter model Martin Petersen
- P15 Using Rheo-SANS to probe the microstructure of a model paint under shear Axel Rüter
- P16 Nanoimaging of the phloem in reaction wood of silver birch using X-ray scanning diffraction Mira Viljanen