

Transport in nanostructured materials - design and characterisation

List of Confirmed Speakers

Advances within visualization and characterisation on the nanoscale of materials



Prof. Emma Sparr, Lund University, Sweden. Prof. Emma Sparr is an expert on physical chemistry of skin since for more than 10 year. In one of her recent publications she uses NMR to track molecular mobility in intact stratum corneum of different solvents (PNAS (2017) 114, E112-E121). She is since 2011 professor in Physical Chemistry Lund, where she has been partner and Director of the Linnaeus Research Center “Organizing Molecular Matter” (OMM) (2006-2016).



Prof. Eva Olsson, Applied Physics, Chalmers, Sweden. Prof. Eva Olsson is leading the Soft Microscopy initiative at Chalmers. She and her team have built up microscopy expertise and an excellent infrastructure with state of the art electron microscopies. Her work focusses on studies of the functional structure of designed materials and devices using advanced imaging, diffraction and spectroscopy including in situ studies and 3D reconstruction. She has experience of a wide spectrum of different materials requiring a broad variety of imaging modes and special considerations.

Nanostructured materials in food and pharmaceuticals



Prof. Erik van der Linden, Wageningen University and Research, The Netherlands. Prof Erik van der Linden has a focus on physics and physical chemistry of foods. He also is theme director Sensory and Structure at TiFN, a public private partnership consortium, and commission member of the Dutch Agri-Food Product Technology and Sustainable Production Technology theme.



Prof. Peter Lillford, Birmingham University, UK. Prof. Peter Lillford is currently a visiting professor in the School of Chemical Engineering. He took his PhD at King’s College London and after postdoctoral positions at Cornell and San Francisco Medical Centre he joined Unilever R&D. He has acquired a broad knowledge of food science was made Commander of the British Empire (CBE) “for services to science and the food industry”. Special areas of interests are e.g. food materials science, food microstructure and water in foods.



Prof. Mats Stading, RISE, Sweden. Prof. Mats Stading leads the Product Design and Perception group at Research Institute of Sweden, RISE, and he is Adjunct Professor at Industrial and Materials Science at Chalmers, both located in Gothenburg, Sweden. Professor Stading is President of the European Society of Rheology, and is a specialist in rheology of biopolymers, foods and biological systems. He is currently involved in projects regarding flow of protein and polysaccharide systems e.g. regarding dysphagia and alternative protein food sources.



Prof. Ron Siegel, Department of Pharmaceutics, University of Minnesota, US. Prof. Ron Siegel received his ScD degree from MIT and has since then worked at the faculty of School of Pharmacy at the University of California, San Francisco and University of Minnesota. He has a cross – disciplinary knowledge and his research interests are ranging from drug delivery and hydrogels to mathematical modelling.



Prof. Jayne Lawrence, King's College, London, UK. Prof Jayne Lawrence is head of the pharmaceutical biophysics group at Kings College. Her research has focused on improving the delivery of low molecular weight drugs and biomolecules such as DNA and siRNA using a range of novel and conventional surfactant/polymer and lipid molecules. She is using a variety of analytical techniques including light and neutron scattering and reflectivity in her research.



Ass Prof. Camille Loupiac, AgroSup, Dijon, France. Ass. Prof. Camille Loupiac is an expert on neutron scattering, a technique that she has used to study structure and dynamics of proteins. Her research has focused on how protein structure and dynamics are influenced by various process units, such as heating, pressure and drying. Ass. Prof Camille Loupiac has worked for long at Laboratoire Léon Brillouin, CNRS, Saclay, France with neutron scattering and is involved in the neutron imaging effort at ESS in Lund.

Nanostructured materials



Dr. Pola Goldberg Oppenheimer, Birmingham University, UK. Dr Pola Oppenheimer focus her research on nano and submicron structure formations at surfaces and films including the use of hierarchical electrohydrodynamically generated functional structures to develop novel polymerbased nano-detection devices. She was awarded the Carl-Zeiss Price in Engineering at the University of Cambridge.



Ass prof. Andreas Dahlin, Chalmers, Sweden. Ass prof. Andreas Dahlin focus his work on nanotechnology, soft matter and molecular biology. His expertise lays within biophysics, polymer physics, surface chemistry, nanofabrication, electrochemistry and optics. He typically works within interdisciplinary projects containing physics, chemistry and biology. For further information please visit his homepage adahlin.com.

Evening speakers



Prof. Anette Larsson, Pharmaceutical Technology, Chalmers, Sweden. Prof. Anette Larsson has a strong research interest in the physico-chemical properties of cellulose derivatives and its impact on controlled release in pharmaceutical formulations. She is further an expert on barrier properties of films formed from synthetic as well as biodegradable polymers. She worked for seven years at AstraZeneca before taking up an academic career at Chalmers. Prof Anette Larsson has been the leader of SuMo Biomaterials since 2012.

More speakers will be added to the list