

TUESDAY 24th of OCTOBER

11:00-12:50 **Registration** at "Kåren" (Student Union Building) at KTH Valhallavägen campus
Drottning Kristinas väg 15, Stockholm

12:50-13:00 *Welcome and opening of the symposium*
Sigbritt Karlsson, KTH Royal Institute of Technology and Pia Sandvik, RISE

Session 1 Frontier materials

13:00-13:30 *Chemical control of reactive interfaces for increased sustainability*
Keynote lecture Maria Forsyth, Deakin University, Australia

13:30-13:50 *Functional materials for next generation energy storage systems*
Aleksandar Matic, Chalmers University of Technology, Sweden

13:50-14:10 *Tuning interfaces with ionic liquids*
Anja-Verena Mudring, Stockholm University, Sweden

14:10-14:30 *Fibre reinforced adhesives patches to stabilize bone fractures*
Michael Malkoch, KTH Royal Institute of Technology, Sweden

14:30-15:00 Coffee break

Session 2 Nanomaterials

15:00-15:30 *Four-dimensional printing: Functional materials patterning in temporal and spatial domains*
Keynote lecture Ralph Nuzzo, University of Illinois, USA

15:30-15:50 *Metallic nanoparticles: The link between toxicity, surface and materials properties*
Inger Odnevall Wallinder, KTH Royal Institute of Technology, Sweden

15:50-16:10 *Design of hierarchical nanoassemblies*
Catherine Amiel, Institute of Chemistry and Materials, France

16:10-16:30 *Liquid crystalline particles for delivery of antimicrobial peptides*
Lukas Boge, RISE Research Institutes of Sweden

Poster session I (Odd poster numbers)

16:30-16:50 Poster speed show (Odd poster numbers)

16:50-19:00 Poster exhibition (Odd poster numbers) and mingle

16:50-17:30 Annual proceedings (Årsmöte) of the Division of surface chemistry and materials chemistry within the Swedish Chemical Society

WEDNESDAY 25th of OCTOBER
Session 3 Formulation/Delivery

08:30-09:00 *Nanoparticles as carriers of host defense peptides*
 Keynote lecture Martin Malmsten, University of Copenhagen, Denmark

09:00-09:20 *Poly(acrylic acid) microgels as carriers for antimicrobial peptides*
 Randi Nordström, Uppsala University, Sweden

09:20-09:40 *Controlled inhalation aerosol exposures*
 Per Gerde, Karolinska Institutet, Sweden

09:40-10:00 *Structured materials for cosmetic surface applications*
 Gustavo Luengo, L'Oréal, France

10:00-10:30 Coffee break

Session 4 Scattering, Neutrons

10:30-11:00 *Understanding interactions at interfaces*
 Keynote lecture Adrian Rennie, Uppsala University, Sweden

11:00-11:20 *Probing the electroactive interface of ionic liquids*
 Georgia Pilkington, KTH Royal Institute of Technology, Sweden

11:20-11:40 *The lipid-aqueous interface and biomolecular interaction revealed by neutron, x-ray and optical techniques*
 Tommy Nylander, Lund University, Sweden

11:40-12:00 *Lipoprotein structure dependency on lipid packing and exchange dynamics - Implications for atherosclerosis development*
 Selma Maric, Malmö University, Sweden

12:00-13:00 Lunch

WEDNESDAY 25th of OCTOBER (Cont.)	
Session 5	Nanoconfinement
13:00-13:30 Keynote lecture	<i>Silica-silica composites in drug delivery</i> Mika Jokinen, Turku University of Applied Sciences, Finland
13:30-13:50	<i>Mesoporous silica particles as delivery vehicles for antimicrobial peptides</i> Mika Lindén, Ulm University, Germany
13:50-14:10	<i>Reversible Self Assembled Monolayers (rSAMs): Adaptable surfaces for enhanced multivalent interactions and biomimetic sensing</i> Sing Yee Yeung, Malmö University, Sweden
14:10-14:30	<i>Chemistry within the confines of mineral-bound water films</i> Jean-Francois Boily, Umeå University, Sweden
14:30-15:00	Coffee break
Session 6	AkzoNobel symposium
15:00-15:10	<i>Introduction by AkzoNobel</i>
15:10-15:40 Keynote lecture	<i>Engineering the biology-material interface</i> Martin Andersson, Chalmers University of Technology, Sweden
15:40-15:50	<i>AkzoNobel Award winner lecture introduction</i>
15:50-16:15	<i>Development of functional cellulose materials by utilizing surface selective tailoring concepts</i> Hannes Orelma, VTT Technical Research Centre of Finland, Finland
16:15-16:40	<i>Nanoparticles as a tool to interface biology at the single-molecule level</i> Anders Lundgren, University of Gothenburg, Sweden
Poster session II (Even poster numbers)	
16:40-17:00	Poster speed show (Even poster numbers)
17:00-19:00	Poster exhibition (Even poster numbers) and mingle
19:00-	Conference dinner

THURSDAY 26th of OCTOBER
Session 7 Colloids and interfaces

08:30-09:00 *Life at the interface of brushes and gels*
 Keynote lecture Nicholas Spencer, Surface Science and Technology, ETH Zurich, Switzerland

09:00-09:20 *Exploring the surface chemistry of nanocellulose for water purification*
 Aji Mathew, Stockholm University, Sweden

09:20-09:40 *Mixed micelles of oppositely charged poly(N-isopropylacrylamide) diblock copolymers*
 Karin Schillén, Lund University, Sweden

09:40-10:00 *Marine materials: Reduction and control of biocide release from antifouling paints*
 Mia Dahlström, RISE Research Institutes of Sweden

10:00-10:20 *Comparing morphology in dip-coated and spin-coated blend films for photovoltaics*
 Jan van Stam, Karlstad University, Sweden

10:20-10:50 Coffee break

Session 8 Sustainable materials

10:50-11:20 *Transforming nanocellulose into sustainable products through surface engineering*
 Keynote lecture Emily Cranston, McMaster University, Canada

11:20-11:40 *Sustainable materials by smart surface modifications: From wood modification to tissue engineering*
 Monika Österberg, Aalto University, Finland

11:40-12:00 *Use of molecular cellulose in emulsions and design of nanocomposites*
 Magnus Norgren, Mid Sweden University, Sweden

12:00-12:20 *Organic nanocrystals by vapor phase and colloidal synthesis and applications of these materials in catalysis and biology, especially electrophysiology*
 Eric Glowacki, Linköping University, Sweden

12:20-12:40 *Hierarchical nano-assemblies under confinement and shear*
 Wuge Briscoe, University of Bristol, UK

12:40-12:45 Closing remarks