

## ***Synchrotron and Neutron Scattering in Biomaterials and Soft Matter***

***Wednesday, the 26<sup>th</sup> of Oct 2016***

13.00 Welcome

### **Session I – Biology**

*Chairman: Johan Engblom (Malmö University)*

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|---------------|-----------------------|--|
| 13.10         | Plenary               | <b>Prof. Trevor Forsyth</b> , Institute Laue Langevin<br><i>Neutron and X-ray scattering approaches for interdisciplinary structural biology</i>                         |
| 13.50         | Key note              | <b>Dr. Robert Schnell</b> , Karolinska Institute<br><i>Synchrotron radiation aids structure based inhibitor development - towards novel antibiotics</i>                  |
| 14.20         | Research Contribution | <b>Dr. Melissa Sharp</b> , ESS<br><i>Probing the structure and dynamics of HSA using neutron scattering</i>  |
| 14.40         | Key note              | <b>Prof. Birger Lindberg Möller</b> , University of Copenhagen<br><i>Metabolic plasticity as mediated by the dhurrin metabolon</i>                                       |
| 15.10         | <i>Coffee</i>         |  |
| 15.40         | Key note              | <b>Dr. Martin Bech</b> , Lund University<br><i>Synchrotron imaging of soft tissue biopsies</i>   |
| 16.10         | Research Contribution | <b>Dr. Selma Maric</b> , Malmö University<br><i>Lipoprotein structure dependency on lipid cargo and exchange dynamics - Implications for atherosclerosis development</i> |
| 16.30         | Research Contribution | <b>Dr. Kim Krighaar Rasmussen</b> , University of Copenhagen<br><i>Structural and dynamics studies of a truncated variant of CI repressor from bacteriophage TP901-1</i> |
| 16.50 – 17.10 | Panel Debate          | All speakers in Session I<br>Moderator Zoe Fisher (ESS)  |

***Thursday, the 27<sup>th</sup> of Oct 2016***

### **Session II Solution/Soft-Matter**

*Chairman: Kell Mortensen (University of Copenhagen)*

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|-------|-----------------------|---|
| 9.00  | Plenary               | <b>Dr. John Katsaras</b> , Oak Ridge National Laborator<br><i>Model Membranes, Living Organisms and Lateral Membrane Organization</i>   |
| 9.40  | Key note              | <b>Dr. Ilja Voets</b> , University of Technology of Eindhoven<br><i>A small-angle view on macromolecular self-assembly: from supramolecular interactions to supramolecular structures</i> |
| 10.10 | Research Contribution | <b>Mrs. Intan Diana Mat Azmi</b> , University of Copenhagen<br><i>Citrem-phospholipid lamellar and non-lamellar liquid crystalline nano-assemblies for immune-safe drug delivery</i>      |



10.30	<i>Coffee + Poster Session</i>	
11.00	Key note	<b>Prof. Jan Skov Pedersen</b> , Århus University <i>Refolding of SDS-unfolded proteins by non-ionic surfactants</i>
11.30	Key note	<b>Prof. Uri Raviv</b> , Hebrew University of Jerusalem <i>High-resolution structure, interactions, and dynamics of self-assembled biomolecular complexes</i>
12.00	Research Contribution	<b>Dr. Federica Sebastiani</b> , CR Competence/Lund University <i>SANS study of the self-aggregation of alkylglycoside surfactants with oligomeric head-groups</i>
12.20	<i>Lunch</i>	

### Session III - Industrial applications

*Chairman: Tommy Nylander (Lund University)*

13.10	Plenary	<b>Dr. Thomas Callisen</b> , Novozymes <i>Small-angle x-ray and neutron scattering – complementary approaches for understanding colloid and interface behavior of systems relevant for technical applications of enzymes</i>
13.50	Key note	<b>Dr. Justas Barauska</b> , Camurus <i>Drug delivery applications of self-assembling lipid formulations</i>
14.20	Research Contribution	<b>Dr. Sören Midtgaard</b> , University of Copenhagen <i>Introducing new industrial users to large scale X-ray and neutron facilities</i>
14.40	<i>Coffee + Poster Session</i>	
15.10	Key note	<b>Dr. Anna Stenstam</b> , CR Competence <i>When thrown into the wonderful mix of constraints and desires, there is a product and a customer...</i>
15.40	Key note	<b>Dr. Sarah Rogers Rutherford</b> , Appleton Laboratory <i>Neutrons and Industry: How the ISIS Neutron Scattering Source Interacts with Industry</i>
16.10	Key note	<b>Dr. Tomas Lundqvist</b> , MAX IV Laboratory <i>Realizing the potential of research infrastructures</i>
16.40 – 17.10	Panel Debate	Håvard Haugen (OU), John Katsaras (ORNL), Thomas Arnebrant (MAH), Wacklin (ESS), Andersen (LINX), Tomas Lundqvist (MAX IV), Kell Mortensen (KU) Moderator Tommy Nylander (LU)
17.40	<i>Buss transport to St. Gertrud</i>	
18.15	<i>Dinner at St. Gertrud</i>	

**Friday, the 28<sup>th</sup> of Oct 2016**

## Session IV Interfaces

Chairman: Reidar Lund (University of Oslo)

9.00	Plenary	<b>Dr. Robert Thomas</b> , Oxford University <i>Neutron Reflection</i>
9.40	Key note	<b>Dr. Carmen Domene</b> , King's College London <i>Molecular dynamics simulations and neutron reflectivity as an effective approach to characterize biological membranes and related macromolecular assemblies</i>
10.10	Research Contribution	<b>Dr. Yuri Gerelli</b> , Institute Laue Langevin <i>Molecular transport in lipid membranes: lipid exchange and translocation processes investigated by neutron scattering</i>
10.30	Coffee	
11.00	Key note	<b>Prof. Peter Muller-Buschbaum</b> , Technical University of Munich <i>Studying soft matter surfaces and interfaces with in-situ and in-operando x-ray and neutron scattering</i>
11.30	Key note	<b>Prof. Fredrik Höök</b> , Chalmers Technical University <i>Can neutron reflectometry offer structural and compositional information about native supported cell membranes and biological nanoparticles?</i>
12.00	Research Contribution	<b>Mrs. Silvia Galli</b> , Malmö University <i>Multi-modal and high-resolution investigation of biodegradable Mg implants in bone</i>
12.20	Lunch	
12.45	Transport to MAX IV and ESS	

