

	Plenary speakers, in Lecture hall Runan
	Speakers from industry, in Lecture hall Runan
	AkzoNobel price winners, in Lecture hall Runan
	Young scientists and PhD students, in Lecture hall Runan
	Young scientists and PhD students, in Lecture hall Palmstedtsalen

## Tuesday 23 October

11.00 Registration

13.00 Welcome Karin Markides

13.15 *Catalysts for tomorrow: actual and desired*  
**Sir John Meurig Thomas**, University of Cambridge, UK

13.45 *Growth of uniformly oriented silica MFI and BEA zolite films on substrates and applications*  
**Kyung Byung Yoon**, Sogang University, South Korea

14.15 *Design of silica nanoparticles as components in a dual flocculating system for papermaking*  
**Michael Persson**, Eka Chemicals, Sweden

14.35 Coffee Break

15.00 *NMR methods for soft matter*  
**Daniel Topgaard**, Lund University, Sweden

*Amine modified silica as potential CO<sub>2</sub> adsorbent*  
**Baroz Aziz**, Stockholm University, Sweden

15.20 *Designing composite microgels with varying shapes and functionalities: on the road towards supracolloidal self-assembly*  
**Jerome Crassous**, Lund University, Sweden

*Properties of SBA-15 – tuning a material*  
**Tomas Kjellman**, Lund University, Sweden

15.40 *Nano-wear studies of proteinaceous films*  
**Javier Sotres**, Malmö University, Sweden

*Nano-coated steels for solid oxide fuel cell (SOFC) interconnects*  
**Jan Froitzheim**, Chalmers, Sweden

16.00 *Design and synthesis of surface-engineered nanoparticles to improve coating performance*  
**Anwar Ahniyaz**, YKI, Institute for Surface Chemistry, Sweden

*Zirconium and titanium hydrides: a route to embrittlement understood from calculations and experiments*  
**Jakob Blomqvist**, Malmö University, Sweden

16.20 Poster Session 1 + Light Meal

18.30 Entertainment

## Wednesday 24 October

08.30 Registration

09.00 *Nanoparticle brushes: a new class of surface active material*  
**Robert Tilton**, Carnegie-Mellon University, USA

09.30 *Amyloid fibrils: from single molecule to building blocks for functional nanomaterials*  
**Raffaele Mezzenga**, ETH, Switzerland

10.00 *A microscopy study of the particle dispersion in paint*  
**Maria Stjerndahl**, AkzoNobel Functional Chemicals, Sweden

10.20 Awarding Martin Malmsten the Norblad-Ekstrand medal

10.25 Coffee break

10.45 *Material development for propulsion systems within Volvo*  
**Heije Westberg**, Volvo, Sweden

11.05 *Plastics development in body & exterior automotive*  
**Per Bengtsson**, Volvo Cars, Sweden

11.25 <i>High fracture toughness of gastroliths provided by embedded proteins and sacrificial bonds</i> <b>Esben Thormann</b> , KTH Royal Institute of Technology, Sweden	<i>Solving structures of new materials using 3D electron diffraction tomography</i> <b>Peter Oleynikov</b> , Stockholm University, Sweden
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11.45 <i>Biocompatible and nontoxic aliphatic polyester dendrimers – macromolecular scaffolds with striking structural perfection and multiple functionalities</i> <b>Michael Malkoch</b> , KTH Royal Institute of Technology, Sweden	<i>New chemistry on metal supported, nanometer-thin oxides</i> <b>Anders Hellman</b> , Chalmers, Sweden
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12.05 <i>Functionalized scaffolds for myocardial regeneration</i> <b>Abeni Wickham</b> , Linköping University, Sweden	<i>Structure-property relations in oxide materials for emerging energy technologies</i> <b>Maths Karlsson</b> , Chalmers, Sweden
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12.25 Lunch break

13.30 *Surface characteristics, material chemistry and toxicity - in-depth studies on stainless steel in human contact*  
**Inger Odnevall Wallinder**, KTH Royal Institute of Technology, Sweden

14.00 *Biomimetic self-assembly of functional hybrid nanomaterials*  
**Daniel Aili**, Linköping University, Sweden

14.20 *Improving the osseointegration of PEEK implants*  
**Per Kjellin**, Promimic, Sweden

14.40 Coffee break

15.05 *Controlled release of bioactive compounds from wound care products*  
**Marina Craig**, Mölnlycke Health Care, Sweden

15.25 *Challenges in pharmaceutical materials science*  
**Staffan Schantz**, AstraZeneca, Sweden

15.45 *Polyethylene pipe materials for extreme conditions*  
**Thomas Hjertberg**, Borealis, Sweden

16.05 Poster Session 2

16.15 Annual meeting in Division for materials chemistry and surface chemistry, in Lecture hall Runan

18.00 Conference dinner

## Thursday 25 October

08.30 Registration

09.00	<i>Phase phenomena in hydrogel materials</i> <b>Jonas Gernandt</b> , Uppsala University, Sweden	<i>Next-generation ionic liquid derived materials</i> <b>Anna Martinelli</b> , Chalmers, Sweden
09.20	<i>Electron microscopy studies of the bone-implant interface</i> <b>Anders Palmquist</b> , University of Gothenburg, Sweden	<i>Material requirements of wheels in railway applications</i> <b>Krste Cvetkovski</b> , Chalmers, Sweden
09.40	<i>In situ studies of wetting and water transport on a micro and nano scale in soft biomaterials</i> <b>Anna Jansson</b> , Chalmers, Sweden	<i>The effect of anisotropy on crack propagation in pearlitic rail steel</i> <b>Jim Brouzoulis</b> , Chalmers, Sweden
10.00	<i>Biomimetic bilayers supported by nanowire forests</i> <b>Aleksandra Dabkowska</b> , Lund University, Sweden	<i>Size dependent optical, photoelectrochemical and photocatalytic properties of ZnO quantum dots</i> <b>Jesper Jacobsson</b> , Uppsala University, Sweden

10.20 Coffee break

10.45 *Films of colloidal dispersions: evaporation, transport, drying and cracking*  
**Bernard Cabane**, ESPCI Paris Tech, France

11.15 *Directing the surface structure of MoS<sub>2</sub> at a nanoscale for improved functionality*  
**Jakob Kibsgaard**, Aarhus University, Denmark

11.35 *Sintering of chromium alloyed PM steel*  
**Sven Bengtsson**, Höganäs, Sweden

11.55 Closing remarks

12.00 Lunch