

Monday 12 June

10:00-12:30 Arrival and registration

10:45 Bus transfer from Stockholm C (Cityterminalen) to Nynäshamn (Utsikten Meetings)

12:00-13:00 Lunch

13:00-13:15 Welcome
Lecture hall: Gunnar Svensson, Stockholm University and Peter Lilliu, local representative from Nynäshamn
Event

Session I Inorganic chemistry lengths scales – from the evolution of nanoparticles to nanostructured materials

Lecture hall: Chair: Karl-Petter Lillerud, University of Oslo, Norway
Event

13:15-13:50 *Real-time TEM viewing of crystal growth in semiconductor nanostructures*
Reine Wallenberg, Lund University, Sweden

13:50-14:25 *Chiral inorganic nanostructures*
Nicholas Kotov, University of Michigan, USA

14:25-15:00 *Molecular design of advanced nanostructured materials – Similarities between natural & synthetic approaches*
Clément Sanchez, Université Pierre et Marie Curie, France

15:00-15:20 Coffee

Session II Materials synthesis and functionality
Lecture hall: Chair: Nicola Hüsing, University of Salzburg, Austria
Event

15:20-15:55 *High entropy materials*
Ulf Jansson, Uppsala University, Sweden

15:55-16:15 *Bismuth coordination polymers – From centuries-old-medicines to topological monstrosities*
Ken Inge, Stockholm University, Sweden

Session III Inorganic chemistry in energy applications
Lecture hall: Chair: Deryn E. Fogg, University of Ottawa, Canada
Memphis

15:20-15:55 *Inorganic chemistry and energy storage for a better environment*
Kristina Edström, Uppsala University, Sweden

15:55-16:15 *Reintroduction of electrode scrap in the production of NiMH batteries*
Sara Munktel, Nilar AB, Sweden

16:15-16:35	<i>Mesoporous materials derived from nanostructured metal oxides</i> Gulaim Seisenbaeva, SLU, Sweden	16:15-16:35	<i>Complex composition and structure nanomaterials for energy applications</i> Gunnar Westin, Uppsala University, Sweden
16:35-16:55	<i>The different facets of coinage metal coordination chemistry</i> Andreas Orthaber, Uppsala University, Sweden	16:35-16:55	<i>Spectroscopic investigation of a library of luminescent lanthanide complexes</i> Eszter Borbas, Uppsala University, Sweden
16:55-17:10	<i>Magnetic nanoadsorbents for extraction and separation of REE – Conventional behavior and novel method for enhanced performance</i> Elizabeth Polido Legaria, SLU, Sweden	16:55-17:15	<i>Adsorption properties of CO₂ in copper hexacyanoferrate</i> Dickson Ojwang, Stockholm University, Sweden
17:10-17:45	<i>Decomposition by design – Molecular routes to metal oxides</i> Helen Aspinall, University of Liverpool, UK	17:15-17:30	<i>Optical properties of growing ZnO quantum dots in suspensions and their effect on photocatalytic activity</i> Taha Ahmed, Uppsala University, Sweden
		17:30-17:45	<i>The effects of high temperature cycling and the VC electrolyte additive on the electrochemical performance of SnO₂ electrodes in Lithium-ion batteries</i> Solveig Böhme, Uppsala University, Sweden
17:45-19:15	Poster mingel and Vendor's exhibition		
19:30-ca 21	Conference dinner		
21-	Poster mingel and Vendor's exhibition		

Tuesday 13 June

Session IV Lecture hall: Event	Catalysis, environment and sustainability Chair: James Gardner, KTH, Sweden	Session V Lecture hall: Memphis	New methods of characterizing materials and processes Chair: Cheuk-Wai Tai, Stockholm University, Sweden
08:30-09:05	<i>Ex Detritus, Sapienta – What catalyst decomposition can teach us about the design and use of olefin metathesis catalysts</i> Deryn E. Fogg, University of Ottawa, Canada	08:30-09:05	<i>Atomic-scale insight into MoS₂-based hydrodesulfurization catalysts</i> Michael Brorson, Haldor Topsoe, Denmark
09:05-09:25	<i>Water oxidation catalyzed by mononuclear iron and cobalt polypyridine complexes</i> Andreas Thapper, Uppsala University, Sweden	09:05-09:25	<i>Structural determination of nanoporous materials by Rotation Electron Diffraction</i> Zehao Huang, Stockholm University, Sweden
09:25-09:45	<i>Real time Faradaic efficiency as a powerful method to evaluate electrocatalytic water splitting</i> Henrik Svengren, Stockholm University, Sweden	09:25-09:45	<i>The structure of zeolite SSZ-70 through combined HRTEM, XPRD, and DNP-enhanced 2D NMR</i> Stef Smeets, Stockholm University, Sweden
09:45-10:05	<i>Magnetsensitive materials functionalized by thiourea groups for selective copper(II) ion adsorption</i> Inna Melnyk, ISC UAS, SLU, Sweden	09:45-10:20	<i>Advanced electron tomographic methods for structural characterization of nanostructured materials</i> Tom Willhammar, Stockholm University, Sweden
10:05-10:20	<i>Probing the active species generated from MOF-supported Pd in C-C coupling reactions: An operando X-Ray absorption spectroscopy study</i> Ning Yuan, Stockholm University, Sweden		
10:20-10:40	Coffee		
Session VI Lecture hall: Event	New methods of characterizing materials and processes Chair: Stef Smeets, Stockholm University, Sweden	Session VII Lecture hall: Memphis	Coordination chemistry, bio-inorganic chemistry and medicinal applications Chair: Vadim Kessler, SLU; Sweden
10:40-11:15	<i>Hard x-ray absorption spectroscopy at MAX IV Laboratory for atomic structure and chemical evolution at real conditions</i> Konstantin Klementiev, Lund University, Sweden	10:40-11:15	<i>Weak complex formation – Radium and barium hydrolysis</i> Christian Ekberg, Chalmers, Sweden

11:15-11:35	<i>Local structure disorder in Na_{0.5}Bi_{0.5}TiO₃ piezoceramics revealed by 3D electron diffraction</i> Alexandra Neagu, Stockholm University, Sweden	11:15-11:35	<i>Metal complexes in medical imaging – Contribution of coordination chemistry to efficiency and safety</i> Imre Tóth, Debrecens University, Hungary
11:35-11:55	<i>Characterization of inorganic fillers in polymers by means of thermal analysis</i> Ekkehard Füglein, Netzsch, Sweden	11:35-11:55	<i>Iridium hydride complexes with pincers ligands – Deuterium exchange and solvent dependence of structures</i> Ola Wendt, Lund University, Sweden
11:55-12:30	<i>The chemistry of nucleation</i> Bo Brummerstedt Iversen, Aarhus University, Denmark	11:55-12:30	<i>Chemistry within the confines of mineral-bound water films</i> Jean-Francois Boily, Umeå University, Sweden

12:30-13:30 Lunch

Session VIII Computational modelling and chemical bonding

Lecture hall: Chair: Bo B. Iversen, Aarhus Universtiy, Denmark
Event

13:30-14:05	<i>Structure and properties of molecular materials – From first principles to structural informatics</i> Anthony Reilly, CCDC, Cambridge, UK
14:05-14:25	<i>Ternary gold hydrides – A route to a novel class of superconductors?</i> Martin Rahm, Cornell University, USA
14:25-14:40	<i>From permanent magnets to magnetocalorics – Tuning the magnetic properties of Fe₅PB₂</i> Johan Cedervall, Uppsala University, Sweden

Session IX

Lecture hall: Memphis

Materials synthesis and functionality

Chair: Eszter Borbas, Uppsala University, Sweden

13:30-14:05	<i>Functional and flexible, porous and monolithic materials by sol-gel processes</i> Nicola Hüsing, University of Salzburg, Austria
14:05-14:40	<i>Design of MOFs for applications</i> Karl-Petter Lillerud, University of Oslo, Norway

14:40-15:00 Coffee

Session X	Chemical education and dialogues	Session XI	Chemistry Careers in Sweden (Workshop)
Lecture hall: Event	(Lecture and workshop) Chair: Ulrich Häussermann, Stockholm University, Sweden	Lecture hall: Memphis	Chair: Xiaodong Zou, Stockholm University, Sweden
15:10-15:45	<i>Reactive and adaptive – Active learning of inorganic chemistry</i> Simon Lancaster, University of East Anglia, UK	15:10-16:15	<i>Chemistry as a profession – Presentation of companies employing chemists</i> Representatives from e.g. ESAB, Haldor Topsoe, Nilar AB, Qutotwc, Sandvik Coromant will present their companies and sketch career possibilities for chemists
15:45-17:00	<i>Workshop and discussion – The challenges of teaching chemistry</i> Simon Lancaster and Tony Burden, Stockholm University, Sweden, will demonstrate and apply principles for more interactive teaching. These questions will have potential array of online and face to face interactions. Participants are encouraged to trial these questions	16:15-17:00	<i>Panel discussion and questions</i> Moderator: Xiaodong Zou, Stockholm University, Sweden Panel members: Representatives from eg. ESAB, Haldor Topsoe, Nilar AB, Qutotwc, Sandvik Coromant
17:00-17:30	Annual meeting (Årsmöte) for Division of Inorganic Chemistry within the Swedish Chemical Society		
17:45-18:45	Free activities (Tipspromenad), poster mingel and vendor's exhibition		
19:00-	Dinner		
20:30 -	Poster mingel and vendor's exhibition		

Wednesday 14 June

Session XII **Materials synthesis and functionality - glimpses into the future**

Lecture hall: Chair: Nicholas Kotov, University of Michigan, USA

Event

07:00-09:00 Check out from the hotel room

08:30-09:05 *Ionic liquids for materials chemistry*
Anja-Verena Mudring, Stockholm University, Sweden

09:05-09:40 *Tuning the synthesis of stable metal-organic frameworks through thermodynamic and kinetic analysis*
Hongcai Joe Zhou, Texas AMU, USA

09:40-09:55 Coffee

Session XIII **Inorganic Chemistry in exotic environments**

Lecture hall: Chair: Ken Inge, Stockholm University, Sweden

Event

09:55-10:25 *Sulfur spectroscopy reveals oxidation of iron sulfides causing acidity in historical shipwrecks*
Magnus Sandström, Stockholm University, Sweden

10:25-10:45 *FPXRF as a tool to measure the release rate of copper from antifouling paints*
Maria Lagerström, Stockholm University, Sweden

10:45-11:05 *Chemistry challenges in welding*
Chris Knee, ESAB, Sweden

11:05-11:40 *What chemistry can tell us about the legend and death of the Swedish King Saint Erik (+1160)*
Kerstin Liden, Stockholm University, Sweden

11:40-12:05 *Anna Sundström Award*
Filip Lenrick, LTH, Sweden

12:10-12:15 Concluding remarks and poster prize
Gunnar Svensson, Stockholm University, Sweden

12:15-13:15 Lunch

13:30 Bus transfer from Nynäshamn (Utsikten Meetings) to Stockholm C (Cityterminalen)