

Detailed Program SCS2025

Monday June 16th

10:00-10:20	WELCOME			
10:20-11:10	<p>Session 1 Room: Grand Hall PLENARY 1 A Golden Time for Nanotechnology Catherine Murphy, University of Illinois Urbana-Champaign, USA Chair: Mark Rutland, KTH Royal Institute of Technology</p>			
11:10-11:15	Break			
11:15-12:30	<p>Session 2 Room: Grand Hall Organic Chemistry: Method Development & Synthesis Chair: Henrik Sundén, University of Gothenburg</p> <p>Keynote: Mechanochemistry as an enabling technology in organic synthesis. Berit Olofsson, Stockholm University</p> <p>Electrochemical reduction of C-S bond. Julius Kuzmin, KTH Royal Institute of Technology</p> <p>Precedent Finder – Retrieving Pareto Optimal Chemical Reactions. Christoph Bauer, AstraZeneca</p> <p>Mechanochemically enabled one-pot two-step synthesis of highly functionalized alkenes. Sayad Doobary-Vobora, Stockholm University</p>	<p>Session 3 Room: Power 1 & 2 Surface and Materials Chemistry Chair: Joakim Stenhammar, Lund University</p> <p>Keynote: The many faces of corrosion. Inger Odnevall, KTH Royal Institute of Technology</p> <p>Assessing the properties of well-defined Cu-electrolyte interfaces for CO reduction. Paula Sebastián Pascual, KTH Royal Institute of Technology</p> <p>Reversible self-assembled monolayers (rSAMs): A versatile approach to multivalent receptors. Börje Sellergren, Malmö University</p> <p>In situ Time-resolved X-ray Absorption Spectroscopy Unveils Partial Re-Oxidation of Tellurium Cluster for Prolonged Lifespan in Hydrogen Evolution. Kanglei Pang, Stockholm University</p>	<p>Session 4 Room: Queen 1 Inorganic Chemistry Chair: Gulaim Seisenbaeva, Swedish University of Agricultural Sciences (SLU)</p> <p>Keynote: Electron Hopping through Metal-Organic Frameworks: Fundamental Insights and Applications. Sascha Ott, Uppsala University</p> <p>When molecules feel claustrophobic: decoding CO₂ behaviour in nanoconfined spaces with ssNMR & computation. Luís Mafra, University of Aveiro, Portugal</p> <p>Stabilization strategies to tailor-made lignin for materials. Maxim Galkin, Uppsala University</p> <p>Removal of PFOA from Aqueous Solutions Using N-Containing Mesoporous Silica. Oksana Dudarko, SLU</p>	<p>Session 5 Room: Queen 2 Physical Chemistry Chair: Leif Hammarström, Uppsala University</p> <p>Keynote: Photophysical and photochemical studies of organic nanoparticles for photocatalysis. Haining Tian, Uppsala University</p> <p>Collective Phenomena in Self-Assembled Perovskite Nanocrystals. Dmitry Baranov, Lund University</p> <p>From Catalysis to Sensing: How Protein Scaffolds Fine-Tune [FeFe]-Hydrogenase function. Moritz Senger, Uppsala University</p> <p>Tiselius Awardee Lecture: Insights on charge transfer dynamics across dye-sensitized interfaces with Spectroelectrochemistry. Sina Wrede, Uppsala University</p>
12:30-13:30	Lunch			

	<p>Session 6 Room: Grand Hall</p> <p>Organic Chemistry: Method Development & Synthesis</p> <p>Chair: Belén Martín-Matute, Stockholm University</p> <p>Keynote: Selective Boron-Based Ortho-Directed Functionalization Strategies of Aromatic Substances. Henrik Sundén, University of Gothenburg</p> <p>Sustainable and scalable one-pot synthesis of diaryliodonium salts. Leonard Kersting, Stockholm University</p> <p>Thioacetals as Alkyl Radical Precursors in Electroreductive Desulfurative Reactions. Ellymay Goossens, KTH Royal Institute of Technology</p> <p>Chiral Trifluoromethylated Enamides as Versatile Reagents. Alexandru Postole, Stockholm University</p>	<p>Session 7 Room: Power 1 & 2</p> <p>Surface and Materials Chemistry & Physical Chemistry</p> <p>Chair: Karl Börjesson, University of Gothenburg</p> <p>Keynote: Label-Free Surface Sensitive Optical Microscopy for Fingerprinting Extracellular Vesicles and Lipid Nanoparticles and Analyzing Cell-Membrane Interactions. Fredrik Höök, Chalmers</p> <p>Interplay of Electrical and Mechanical Properties of Organic Mixed Conductors. Christian Müller, Chalmers</p> <p>Studying structure – function relationships in lipid nanocarriers for the delivery of oligonucleotides. Hanna Barriga, KTH Royal Institute of Technology</p>	<p>Session 8 Room: Queen 1</p> <p>Inorganic Chemistry: Young Chemists Session</p> <p>Chair: Andreas Orthaber, Uppsala University</p> <p>Flash posters (2x) + Introduction Young Chemists</p> <p>Mars' Hidden Water Reservoirs: Geochemical Insights into Nontronite-Chloride Salt Interactions under Icy Temperatures. Merve Yesilbas, Umeå University</p> <p>Dynamic Structural Transitions in Europium MOFs for Enzyme Immobilization and Biocatalysis. Ani Vardanyan, Swedish University of Agricultural Sciences (SLU)</p> <p>Effect of surface impurities and defects on the photocatalytic activity of ZnO nanorods: The importance of careful sample pre-treatment. Fredric Svensson, Uppsala University</p>	<p>Session 9 Room: Queen 2</p> <p>Chemical Engineering</p> <p>Chair: Michaël Grimsberg</p> <p>Keynote 1: Recycled Fibers and Spinnability – Machine Learning Innovations for Sustainable Textile Production. Nawar Kadi, University of Borås</p> <p>Keynote 2: Chemical recycling of cellulose-rich waste textiles. Miguel Sanchis Sebastiá, Sharetex</p> <p>Keynote 3: Sustainability solutions and potentials of new polymer material applications in food packaging. Oleg Pajalic, Perstorp</p>
13:30-14:45	Coffee			
14:45-15:15	Coffee			
15:15-16:45	<p>Session 10 Room: Grand Hall</p> <p>Organic Chemistry: Medicinal Chemistry</p> <p>Chair: Luke Odell, Uppsala University</p> <p>Keynote: Natural product inspired drug design – From a fungal secondary metabolite to a tumor-targeted migrastatic. Philipp Klahn, University of Gothenburg</p> <p>Escape from Flatland: Discovery of sp³ rich TriPcides effective Against Resistant Bacteria. Pardeep Singh, Umeå University</p> <p>Development of dynamically chiral phosphonic acid-type metallo-β-lactamase inhibitors. Kinga Virág Gulyás, Uppsala University</p> <p>Towards a New Class of Antibiotics from Scaffold Hopping with Thiazolino Ring-Fused 2-Pyridones. Victor Hellgren, Umeå University</p> <p>Tunable aromatic sulfoxides and sulfones as cysteine-targeting warheads: exploring the structure-reactivity relationship. Hampus Nyström, University of Gothenburg</p>	<p>Session 11 Room: Power 1 & 2</p> <p>Surface and Materials Chemistry</p> <p>Chair: Hanna Barriga, KTH Royal Institute of Technology</p> <p>Keynote: Structural evolution in disordered carbons as Li storage materials. István Furó, KTH Royal Institute of Technology</p> <p>Ice as a geochemical reactor for mineral dissolution. Jean-François Bolly, Umeå University</p> <p>Dynamic physical network constructed by tripartite H-bonds in artificial SEI to shape dendrite-free lithium-metal anode. Qingping Wu, Helmholtz Zentrum Berlin.</p> <p>How ionizing radiation affects the chemical stability of spent nuclear fuel under deep geological repository conditions. Mats Jonsson, KTH Royal Institute of Technology</p>	<p>Session 12 Room: Queen 1</p> <p>Analytical Chemistry</p> <p>Chair: Mikael Hedeland, Uppsala University</p> <p>Keynote 1: Tracking sublethal pesticide impacts in pollinators via brain metabolomics. Peter Spégel, Lund University</p> <p>Keynote 2: Advanced LC-HRMS screening workflows for identifying unknown chemicals migrating from plastic bottles into drinking water. Selina Tisler, University of Copenhagen, Denmark</p> <p>Space Metabolomics: Investigating Neural Stem Cell Adaptations to Microgravity. Lucie Davidová, Uppsala University</p> <p>Sustainable design of chemical reagents for the sensitive detection of pesticides using a machine learning workflow. Henrik Hupatz, SUCCeSS</p>	<p>Session 13 Room: Queen 2</p> <p>Biochemistry</p> <p>Chair: Herwig Schüler, Lund University</p> <p>Bror Holmberg Medalist: Synchrotrons, X-ray lasers, and structural sciences. Janos Hajdu, Uppsala University</p> <p>Is the giant armadillo-repeat protein GAC a spring providing momentum for gliding motility? Inari Kursula, University of Oulu, Finland.</p> <p>The binding patterns of thiophene-based ligands to Ab plaques in Alzheimer's disease and Down syndrome correlate with A_B filament structures. Therese Klingstedt, Linköping University</p> <p>High-throughput AlphaFold for understanding microbial warfare and evolution. Gemma Atkinson, Lund University</p>

16:45- 16:55	Break
16:55- 17:05	<p>Session 14</p> <p>Room: Grand Hall</p> <p><i>Award Ceremony Torbern Bergman Award</i></p>
17:05- 18:05	<p>Round Table Discussion: A Sustainable Swedish Chemistry Sector – what is needed?</p> <p>Chair: Magnus Breitholz, Stockholm University</p> <p>Panel: Hans Adolfsson - President Stockholm University and SUHF</p> <p>Jenny Ivarsson - Strategic Advisor, Swedish Chemicals Agency (Kemikalieinspektionen, Keml)</p> <p>Johan Landfors - Chief Technology Officer and President Europe, Nouryon</p>
18:05- 18:15	Break
18:15- 19:15	<p>Room: Prestige, Turbine, and Epical 1 & 2</p> <p>Posters (odd numbers)</p> <p>& mingle</p>

Time to visit the Steam Hotel Voltage Lounge Pool Club without an extra fee: Monday the 16th of June, between 20:30-22:30

Tuesday June 17th

08:30- 09:20	<p>Session 15</p> <p>Room: Grand Hall</p> <p>PLENARY 2</p> <p>Direct Air Capture of CO₂: Chemistry & Engineering Combine for Climate Stabilization</p> <p>Christopher Jones, Georgia Institute of Technology, USA</p> <p>Chair: Miguel Rivero-Crespo, Stockholm University</p> <p>Hosted by SUCCeSS</p>
09:20- 09:25	Break

09:25-10:40	<p>Session 16 Room: Grand Hall</p> <p>SUCCeSS: Machine learning, biomass conversion and sustainable materials</p> <p>Chair: Henrik Hupatz, Stockholm University</p> <p>Keynote: Computational discovery now new molecules that can actually be made. Jan Halborg Jensen, University of Copenhagen, Denmark</p> <p>Chemistry and materials science for sustainability: reflections on why, how and what. Lennart Bergström, Stockholm University</p> <p>Luminescent Carbon Dots Derived from Biomass. Jia Wang, Umeå University</p> <p>Preparation of Protein Materials Through a Combination of Mechanochemistry and Self-Assembly. Niclas Solin, Linköping University</p>	<p>Session 17 Room: Power 2</p> <p>Organic Chemistry: New Venues</p> <p>Chair: Philipp Klahn, University of Gothenburg</p> <p>Keynote: CO₂ hydrogenation hydrogenation to hydrocarbons and oxygenates over K-promoted iron oxide catalysts. Liane Rossi, University of São Paulo, Brazil</p> <p>Iodonium salt-mediated C-diarylations and formation of benzofurans: diverging, nucleophile-dependent reactivity. Benjamin Gunschera, Stockholm University</p> <p>Synthesis of N-Alkenylated Heterocycles via T3P-Promoted Condensation with Ketones. Lorenzo Jacopo Ilic Balestri, Uppsala University</p> <p>From Structure to Function — NMR spectroscopy and MicroED Studies of Beyond Rule of 5 Modalities. Måns Eriksson, University of California, USA</p>	<p>Session 18 Room: Queen 1+2</p> <p>Panel Discussion: <i>From Concept to Commercialization – a journey from academic discovery to business</i></p> <p>Short individual presentations are followed by a panel discussion on key challenges, success factors, and advice for researchers aiming to bring their innovations to market.</p> <p>Chair: Lisa Ericsson, KTH Innovation</p> <p>Panelists:</p> <ul style="list-style-type: none"> Fredrick de Maré - Novitas Patent Fredrik Almquist - Umeå University Jowan Rostami - Cellufy Carl Hamsten - Swedish Patent and Registration Office (PRV) 	<p>Session 19 Room: Power 1</p> <p>Challenges in the Chemical Industry</p> <p>Chair: Rolf Edvinsson, Nouryon</p> <p>Keynote: Key Innovation Drivers in the Chemical Industry. Johan Landfors, Nouryon</p> <p>Displacement Effects in the Purification of GLP-1 Receptor Agonists. Joakim Höglblom, Nouryon</p> <p>Design and Structuring of Materials with Expanded Ultralow-Density Microspheres. Farid Akhtar, Luleå University of Technology</p> <p>Advancements in the Electrochemical Chlorate Process. Nina Simic, Nouryon</p>
10:40-11:10	Coffee			
11:10-12:25	<p>Session 20 Room: Grand Hall</p> <p>SUCCeSS: Electrochemistry and catalysis</p> <p>Chair: Prof. Jiayin Yuan, Stockholm University</p> <p>Keynote: (Electro)catalysis as strategy towards sustainable synthesis. Helena Lundberg, KTH Royal Institute of Technology</p> <p>Lanthanide photocatalysts for organic synthesis and small-molecule activation. Eszter Borbas, Uppsala University</p> <p>Advancing Green Catalysis with Molecularly Engineered Electrodes. Biswanath Das, Stockholm University</p> <p>Development of novel electrocatalytic C-H functionalization strategies for late-stage modification applications. Oscar Verho, Uppsala University</p>	<p>Session 21 Room: Power 1</p> <p>Theoretical & Inorganic Chemistry</p> <p>Chair: James Gardner, KTH Royal Institute of Technology</p> <p>Keynote: Conformal CVD of boron carbide onto carbon nanotubes. Henrik Pedersen, Linköping University</p> <p>MINFF: A new forcefield family for molecular simulations of minerals. Michael Holmboe, Umeå University</p> <p>Metal-Organic Frameworks with Hexagons – From foldable nets to SF6 sorption. Lars Öhrström, Chalmers University of Technology</p> <p>Expanding the Frontiers of Phosphalkene Chemistry: From Quinoid/Diradicaloid to Molecular Switch. Rajesh Deka, Uppsala University</p>	<p>Session 22 Room: Power 2</p> <p>Organic Chemistry: Structure and Mechanism</p> <p>Chair: Henrik Sundén, University of Gothenburg</p> <p>Keynote: Adventures in C1-Chemistry: Carbonylations, Thiomethylations and Diazomethane Generation. Luke Odell, Uppsala University</p> <p>Computational Study on the Dynamics of a Bis(Benzoxazole)-Based Overcrowded Alkene. Taegeun Jo, Uppsala University</p> <p>A base-mediated rearrangement of the benzylidene 1,5-hexadipyrindinyl moiety. Wouter Remmerswaal, Uppsala University</p> <p>Predicting redox potentials of organic substrates. Jai White, KTH Royal Institute of Technology</p>	<p>Session 23 Room: Queen 1+2</p> <p>Analytical Chemistry</p> <p>Chair: Åsa Emmer, KTH Royal Institute of Technology</p> <p>Torbern Bergman Medalist: Analysing the structural diversity of N-linked oligosaccharides: a key to understanding the functional and structural complexity of the third great alphabet of life. Pauline Rudd, University College Dublin, Ireland</p> <p>Electromembrane extraction – a novel, efficient, and environmentally friendly sample preparation technique. Frederik André Hansen, University of Oslo, Norway</p> <p>Streamlining Quantification and Data Harmonization of Polychlorinated Alkanes Using a Platform-Independent Workflow. Idalia Beloki Ezker, Linköping University</p> <p>Suspect Screening Analysis of environmental waters triggering the SOS response. Josep García Martínez, Lund University</p>
12:25-13:35	Lunch			
		12:25-12:45: Annual Proceedings of the Division of Organic Chemistry		

13:35-14:25	<p style="text-align: center;">Session 24 Room: Grand Hall PLENARY 3</p> <p style="text-align: center;">Asymmetric Peptide Catalysis – From Simple to Complex Environments</p> <p style="text-align: center;">Helma Wennemers, ETH Zürich, Switzerland Chair: Berit Olofsson, Stockholm University</p>				
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14:55-16:40	<table border="0" style="width: 100%;"> <tr> <td style="width: 25%; vertical-align: top;"> <p>Session 25 Room: Grand Hall</p> <p>Organic Chemistry: Catalysis</p> <p>Chair: Carl Johan Wallentin, University of Gothenburg</p> <p>Keynote: Catalytic Hydrogen and Proton Transfer Reactions for Selective Organic Synthesis. Belén Martín-Matute, Stockholm University</p> <p>New luminescent iron carbene complexes with long excited state lifetimes for photoredox catalysis. Jesper Schwarz, Lund University</p> <p>Photoredox Site-Selective Functionalization of Sugars. David Avetian, KTH Royal Institute of Technology</p> <p>Mechanistic Insights into C–H Bond Activation: Reductive Elimination and Ligand Exchange in Iridium Pincer Complexes. Alice Spangenberg, Lund University</p> <p>Methoxide-Enabled Zirconium-Catalyzed Migratory Alkene Hydrosilylation. 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17:40-19:00	Free time				
19:00-onwards	<p>Room: Grand Hall</p> <p>Conference dinner</p> <p style="text-align: center;">Award ceremony Bror Holmberg Medal, Arrhenius-plaque & the Norblad Ekstrand Medal</p>				

Wednesday June 18th

	Session 29 Room: Grand Hall Organic Chemistry: Catalysis Chair: Berit Olofsson, Stockholm University Keynote: Expanding the terpene: Terpene synthases are “Jack-of-all-trades”. Andreas Kirschning, Leibniz University Hannover, Germany Dependence of the redox potential of a metal organic catalyst on electrolyte anions. Philipp Gaiser, Uppsala University MOF-Catalyzed cycloadditions of CO ₂ : Synthesis of chiral and isotopically labelled organic cyclic carbonates. Pol De La Cruz-Sánchez, Stockholm University Organocatalysis meets enzyme catalysis – artificial enzyme function for the treatment of disease. Maurice Michel, Karolinska Institutet	Session 30 Room: Power 1 Surface and Materials Chemistry Chair: Jiayin Yuan, Stockholm University Keynote: Shape matters. Laura Na Liu, University of Stuttgart, Germany Nanoscopic Foam Films: correlating molecular structure with surface forces. Eric Tyrode, KTH Royal Institute of Technology Self-assembly in Deep Eutectic Solvents. Karen Edler, Lund University Tuning physico-chemical and biological properties of lipid cubosomes with a polyphosphoester stabilizer. Marco Fornasier, Lund University	Session 31 Room: Power 2 Theoretical Chemistry Chair: Petter Persson, Lund University Keynote: The restricted variance optimization method: A Gaussian Process Regression based optimization procedure. Roland Lindh, Uppsala University Superconducting Radical Pancakes. Martin Rahm, Chalmers University of Technology Effects of electric fields and ions in CO ₂ reduction at electrode/electrolyte interfaces. Mårten Ahlquist, KTH Royal Institute of Technology Reaction-Diffusion Simulations of Photoredox Processes in Solution. Simon Liedtke, Lund University	Session 32 Room: Queen 2 Teknolab Course in Gas Chromatography GC Troubleshooting By: Jaap de Zeeuw Visit teknolab.se/kurs/gc-kurser/ for more information about the course, and to register.	
09:00-10:15					
10:15-10:45	Coffee				
10:45-12:00	Session 33 Room: Grand Hall Organic Chemistry: Stimuli-responsive & Conjugated Systems Chair: Andreas Kirschning, Leibniz University Hannover, Germany A simple electromechanically responsive hydrocarbon based on [8]annulenes. Leonard Schilling, Lund University Electrifying redox-active covalent organic frameworks. Rikard Emanuelsson, Uppsala University Modulation of Lanthanide Luminescence with the Mechanical Bond. Anja Ramström, KTH Royal Institute of Technology Open-Flask, Ambient Temperature Conjugated Polymer Synthesis to Mixed Ionic-Electronic Conductors. Joost Kimpel, Chalmers University of Technology Oxotriphenylhexanoate (OTHO) gels, a highly modular platform for singlet-oxygen release with spatiotemporal control. Mario Martos González, University of Gothenburg	Session 34 Room: Power 1 Surface & Materials Chemistry Chair: Karin Edler, Lund University Cryogenic XPS: 25 years probing intact interfaces in nature and life. Andrey Shchukarev, Umeå University Influence of Surface Chemistry on Adsorption and Lubricity of Boundary Films. Juliette Cayer-Barrioz, École Centrale de Lyon, France Design of hierarchical protein materials for a sustainable society. Christofer Lendel, KTH Royal Institute of Technology Unraveling protein repulsion forces with nanocelluloses: insights from force spectroscopy. Jing Li, Stockholm University	Session 35 Room: Power 2 Physical & Theoretical Chemistry Chair: Barbara Nozière, KTH Royal Institute of Technology Computational Insights into Electrolyte-Dependent Li-ion Charge-Transfer Kinetics at the Li _x CoO ₂ Interface. Joakim Halladin Stenlid, Chalmers Molecular photoswitches for all-optical control of fluorescence properties. Joakim Andréasson, Chalmers Photoactivation Dynamics of Transition Metal Complexes. Petter Persson, Lund University Sulfur poisoning to enhance activity of Pt catalysts for liquid organic hydrogen carriers. Felicia Zähr, Chalmers University of Technology	Session 36 Room: Queen 1 Mass Spectrometry Chair: Jonas Bergquist, Uppsala University <u>Berzelii Medal Silver:</u> <i>Detection and identification of high-risk chemicals with LC/HMRS and machine learning.</i> Anneli Kruse, Stockholm University <u>Berzelii Medal Gold:</u> <i>One physicist's journey to Chemistry, Biology and Medicine (warning: don't try this at home).</i> Roman Zubarev, Karolinska Institutet 11:40-11:50 Annual Proceedings of the Division of Mass Spectrometry 11:50-12:00 Annual Proceedings of Kemiska Sällskapet i Uppsala, KSU	Session 37 Room: Queen 2 Teknolab Course in Gas Chromatography GC Troubleshooting By: Jaap de Zeeuw Visit teknolab.se/kurs/gc-kurser/ for more information about the course, and to register.

12:00-12:05	Break		
12:05-12:55	<p>Session 38 Room: Grand Hall</p> <p>PLENARY 4</p> <p>Photochemistry and the many ways molecules unwind</p> <p>Leticia González, University of Vienna, Austria</p> <p>Chair: Helena Lundberg, KTH Royal Institute of Technology</p>		
12:55-13:15	<p>Awards</p> <p>Nordic Retrosynthesis Challenge, Best Poster Presentation</p>		
13:15-13:45	<p>Lunch</p>		
13:45-14:15			
14:15-15:30	<p>Session 39 Room: Power 1</p> <p>14:15-15:00 Publisher Session / Angewandte Chemie Workshop</p> <p>Organizer: Frank Maas, Angewandte Chemie, Wiley</p> <p>Register for the workshop at kemikonferens.se/registration-publisher-session/</p>	<p>Session 40 Room: Power 2</p> <p>KiMoPack course / Physical Chemistry Workshop</p> <p>Organizer: TBA</p>	<p>Session 41 Room: Queen 2</p> <p>13:45-16:30</p> <p>Teknolab Course in Gas Chromatography</p> <p>GC-Method Development</p> <p>By: Jaap de Zeeuw</p> <p>Visit teknolab.se/kurs/qc-kurser/ for more information about the course, and to register.</p>
15:30-16:30			