

Detailed Program SCS2025

Monday June 16th

10:00-10:20	WELCOME			
10:20-11:10	<p>Room: Grand Hall</p> <p>PLENARY 1</p> <p>A Golden Time for Nanotechnology Catherine Murphy</p> <p>University of Illinois Urbana-Champaign, USA</p>			
11:10-11:15	Break			
11:15-12:30	<p style="text-align: center;">Room: Grand Hall</p> <p style="text-align: center;">Organic Chemistry: Method Development & Synthesis</p> <p style="text-align: center;">Chair: TBA</p> <p style="text-align: center;">Keynote:</p> <p>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 style="text-align: center;">Room: Power 1 & 2</p> <p style="text-align: center;">Surface and Materials Chemistry</p> <p style="text-align: center;">Chair: Joakim Stenhammar, Lund University</p> <p style="text-align: center;">Keynote:</p> <p>Diverse Strategies for Pseudocapacitance in 2D Materials and beyond. Maria Lukatskaya, ETH Zürich, Switzerland</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 style="text-align: center;">Room: Queen 1</p> <p style="text-align: center;">Inorganic Chemistry</p> <p style="text-align: center;">Chair: Gulaim Seisenbaeva, Swedish University of Agricultural Sciences (SLU)</p> <p style="text-align: center;">Keynote:</p> <p>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. Luis Mafra, University of Aveiro, Portugal</p> <p>Conformal CVD of boron carbide onto carbon nanotubes. Henrik Pedersen, Linköping University</p> <p>Removal of PFOA from Aqueous Solutions Using N Containing Mesoporous Silica. Oksana Dudarko, SLU</p>	<p style="text-align: center;">Room: Queen 2</p> <p style="text-align: center;">Physical Chemistry</p> <p style="text-align: center;">Chair: TBA</p> <p style="text-align: center;">Keynote:</p> <p>TBA. Haining Tian, Uppsala University</p> <p>Collective Phenomena in Self-Assembled Perovskite Nanocrystals. Dmitry Baranov, Lund University</p> <p>Sulfur poisoning to enhance activity of Pt catalysts for liquid organic hydrogen carriers. Felicia Zaar, Chalmers University of Technology</p> <p>From Catalysis to Sensing: How Protein Scaffolds Fine-Tune [FeFe]-Hydrogenase function. Moritz Senger, Uppsala University</p>
12:30-13:30	Lunch			

13:30-14:45	<p>Room: Grand Hall</p> <p>Organic Chemistry: Method Development & Synthesis</p> <p>Chair: TBA</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 Electrocatalytic Desulfurative Reactions. Eilijay Goossens, KTH Royal Institute of Technology</p> <p>Chiral Trifluoromethylated Enamides as Versatile Reagents. Alexandru Postole, Stockholm University</p>	<p>Room: Power 1 & 2</p> <p>Surface and Materials Chemistry & Physical Chemistry</p> <p>Chair: Margaret Holme, Chalmers University of Technology</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>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. Fredrik Svensson, Uppsala University</p>	<p>Room: Queen 2</p> <p>Chemical Engineering</p> <p>Chair: Michaël Grimsberg</p> <p>Keynote 1: TBA. Nawar Kadi, University of Borås</p> <p>Keynote 2: TBA. Miguel Sanchis Sebastián, Sharetex</p> <p>Keynote 2: Sustainability solutions and potentials of new polymer material applications in food packaging. Oleg Pajalic, Perstorp</p>
14:45-15:15	Coffee			
15:15-16:45	<p>Room: Grand Hall</p> <p>Organic Chemistry: Medicinal Chemistry</p> <p>Chair: TBA</p> <p>Keynote: pseudoGlucosinolates - Bioresponsive tools for covalent imaging and drug development. 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 Virag Gulyas, Uppsala University</p> <p>Towards a New Class of Antibiotics from Scaffold Hopping with Thiazolino Ring-Fused 2-Pyridones. Victor Helligren, 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>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 Fűrő, KTH Royal Institute of Technology</p> <p>Ice as a geochemical reactor for mineral dissolution. Jean-François Boily, 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>Room: Queen 1</p> <p>Analytical Chemistry</p> <p>Chair: Mikael Hedeland, Uppsala University</p> <p>Keynote 1: TBA. 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>Room: Queen 2</p> <p>Biochemistry</p> <p>Chair: Herwig Schüler, Lund University</p> <p>Bror Holmberg Medalist: Janos Hajdu, Uppsala University</p> <p>High-throughput AlphaFold for understanding microbial warfare and evolution. Gemma Atkinson, Lund University</p> <p>TBA. Inari Kursula, University of Oulu, Finland.</p>
16:45-16:55	Break			

16:55-18:05	<p>Room: Grand Hall</p> <p>16:55-17:05 Award Ceremony <i>Torbern Bergman Award</i></p> <p>17:05-18:05 Round Table Discussions</p>
18:05-18:15	Break
18:15-19:15	<p>Room: Epical 1 & 2</p> <p>Posters (odd numbers) & mingle</p>

Tuesday June 17th

08:30-09:30	<p>Room: Grand Hall</p> <p>PLENARY 2: Catalysis and CO2 conversion</p> <p>Chair: Miguel Rivero-Crespo, Stockholm University</p> <p>8.30-8.35 Brief intro about SUCCeSS</p> <p>08:35-09:20: Direct Air Capture of CO2: Chemistry & Engineering Combine for Climate Stabilization</p> <p>Christopher Jones, Georgia Institute of Technology</p> <p>Hosted by SUCCeSS</p>			
09:20-09:25	Break			
09:25-10:40	<p>Room: Grand Hall</p> <p>SUCCeSS: Machine learning, biomass conversion and sustainable materials</p> <p>Chair: Henrik Hupatz, Stockholm University</p> <p>Keynote: TBA. 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>Room: Power 1 & 2</p> <p>Organic Chemistry: New Venues</p> <p>Chair: TBA</p> <p>Keynote: TBA. 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>Room: Queen 1</p> <p>IP</p> <p>Chair: TBA</p> <p>Keynote: TBA</p> <p>Speaker 1: TBA</p> <p>Speaker 2: TBA</p> <p>Speaker 3: TBA</p>	<p>Room: Queen 2</p> <p>Challenges in Chemical Industry</p> <p>Chair: TBA</p> <p>Keynote: TBA</p> <p>Speaker 1: TBA</p> <p>Speaker 2: TBA</p> <p>Speaker 3: TBA</p>
10:40-11:10	Coffee			

11:10-12:25	<p>Room: Grand Hall</p> <p>SUCCeSS: Electrochemistry and catalysis</p> <p>Chair: Prof. Jiayin Yuan, Stockholm University</p> <p>Keynote: TBA. 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>Room: Power 1 & 2</p> <p>Organic Chemistry: Structure and Mechanism</p> <p>Chair: TBA</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 benzylic 1,5-hexadipyrindyl moiety. Wouter Remmerswaal, Uppsala University</p> <p>Predicting redox potentials of organic substrates. Jai White, KTH Royal Institute of Technology</p>	<p>Room: Queen 1</p> <p>Analytical Chemistry</p> <p>Chair: Asa Emmer, KTH Royal Institute of Technology</p> <p>Keynote 1 / Torbern Bergman Medalist: TBA. Pauline Rudd, University College Dublin, Ireland</p> <p>TBA. Frederik André Hansen, University of Oslo, Norway</p> <p>Streamlining Quantification and Data Harmonization of Polychlorinated Alkanes Using a Platform-Independent Workflow. Idoia Beloki Ezker, Linköping University</p> <p>Suspect Screening Analysis of environmental waters triggering the SOS response. Josep Garcia Martinez, Lund University</p>	<p>Room: Queen 2</p> <p>Theoretical & Inorganic Chemistry</p> <p>Chair: TBA</p> <p>Keynote: TBA</p> <p>Speaker 1: TBA</p> <p>Speaker 2: TBA</p> <p>Speaker 3: TBA</p>
12:25-13:35	<p>12:25-12:45: <i>Annual Proceedings of the Division of Organic Chemistry</i></p> <p>Lunch</p>			
13:35-14:25	<p>Room: Grand Hall</p> <p>PLENARY 3</p> <p>TBA</p> <p>Helma Wennemers</p> <p>ETH Zürich, Switzerland</p>			
14:25-14:55	<p>Coffee</p>			

14:55-16:40	<p>Room: Grand Hall</p> <p>Organic Chemistry: Catalysis</p> <p>Chair: TBA</p> <p>Keynote: TBA. 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>Base-Promoted Homolytic Aromatic Substitution (BHAS) Reactions and Hydrodehalogenations Driven by Green Light and an Iron(III)-NHC Photoredox Catalyst. Clara García Mateos, Lund University</p> <p>Photoredox Site-Selective Functionalization of Sugars. David Avelian, 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 Hydroxylation. Orsola Assunta Luongo, Uppsala University</p>	<p>Room: Power 1 & 2</p> <p>Surface and Materials Chemistry - Dedicated to Tommy Nylander</p> <p>Chair: Mark Rutland, KTH Royal Institute of Technology</p> <p>Keynote: When lipids meet water – structure and processes at the lipid aqueous interface. Tommy Nylander, Lund University</p> <p>Lipid sponge phase as a matrix for protein encapsulation: structure and dynamics. Jennifer Gilbert, Chalmers University of Technology</p> <p>Looking at seed proteins as a bulk commodity. Adrian Rennie, Uppsala University</p> <p>TBA. Karin Schillén, Lund University</p> <p>Annual Proceedings of the Division of Surface and Materials Chemistry</p>	<p>Room: Queen 1</p> <p>Physical Chemistry</p> <p>Chair: TBA</p> <p>Keynote: Using weak and strong interactions to control energetics and excited state relaxation pathways in molecular based systems. Karl Börjesson, University of Gothenburg</p> <p>Direct evidence for Bimolecular Proton-Coupled Energy Transfer. Andrea Roschini, Uppsala University</p> <p>Insights to the Electron Transfer from the Triplet Pair State in Singlet Fission Dimers. Victor Gray, Uppsala University</p> <p>4for2: a paradigm shift in multiphoton microscopy. Carlos Benitez-Martin, University of Gothenburg</p> <p>Labeling Methods for RNA-based Therapeutics Live-cell Imaging and RNA Structure and Dynamics Investigations. Marcus Wilhelmsson, Chalmers University of Technology</p> <p>TBA. Angelina Vypritskaia, Stockholm University</p>	<p>Room: Queen 2</p> <p>Chemistry Education</p> <p>Chair: Karolina Broman, Umeå University, Kemisamfundets utbildningsnämnd</p> <p>Keynote: From Bunsen burners to bots: what opportunities and challenges are associated with digital tools in university chemistry programmes? Sascha Bernholt, Leibniz Institute for Science and Mathematics Education (IPN), Germany</p> <p>Round table discussions on chemistry teaching possibilities and challenges. What can we learn from each other, and from Copilot?</p>
16:40-17:40	<p>Room: Epical 1 & 2</p> <p>Posters (even numbers)</p> <p>& mingle</p>			
17:40-19:00	<p>Free time</p>			
19:00-onwards	<p>Room: Grand Hall</p> <p>Conference dinner</p> <p>Award ceremony Bror Holmberg Medal, Arrhenius-plaque & the Norblad Ekstrand Medal</p>			

Wednesday June 18th

09:00-10:15	<p style="text-align: center;">Room: Grand Hall</p> <p style="text-align: center;">Organic Chemistry: Catalysis</p> <p style="text-align: center;">Chair: TBA</p> <p style="text-align: center;">Keynote: Expanding the terpenome: Terpene synthases are "Jack-of-all-trades". Andreas Kirschning, Leibniz University Hannover, Germany</p> <p style="text-align: center;">Dependence of the redox potential of a metal organic catalyst on electrolyte anions. Philipp Gaiser, Uppsala University</p> <p style="text-align: center;">MOF-Catalyzed cycloadditions of CO₂: Synthesis of chiral and isotopically labelled organic cyclic carbonates. Pol De La Cruz-Sánchez, Stockholm University</p> <p style="text-align: center;">Organocatalysis meets enzyme catalysis – artificial enzyme function for the treatment of disease. Maurice Michel, Karolinska Institutet</p>	<p style="text-align: center;">Room: Power 1</p> <p style="text-align: center;">Surface and Materials Chemistry</p> <p style="text-align: center;">Chair: Jiayin Yuan, Stockholm University</p> <p style="text-align: center;">Keynote: Shape matters. Laura Na Liu, University of Stuttgart, Germany</p> <p style="text-align: center;">Nanosopic Foam Films: correlating molecular structure with surface forces. Eric Tyrode, KTH Royal Institute of Technology</p> <p style="text-align: center;">Self-assembly in Deep Eutectic Solvents. Karen Edler, Lund University</p> <p style="text-align: center;">Tuning physico-chemical and biological properties of lipid cubosomes with a polyphosphoester stabilizer. Marco Fomasier, Lund University</p>	<p style="text-align: center;">Room: Queen 1</p> <p style="text-align: center;">Theoretical Chemistry</p> <p style="text-align: center;">Chair: Petter Persson, Lund University</p> <p style="text-align: center;">Keynote: The restricted variance optimization method: A Gaussian Process Regression based optimization procedure. Roland Lindh, Uppsala University</p> <p style="text-align: center;">Superconducting Radical Pancakes. Martin Rahm, Chalmers University of Technology</p> <p style="text-align: center;">Effects of electric fields and ions in CO₂ reduction at electrode/electrolyte interfaces. Márten Ahlquist, KTH Royal Institute of Technology</p> <p style="text-align: center;">Reaction-Diffusion Simulations of Photoredox Processes in Solution. Simon Liedtke, Lund University</p>	<p style="text-align: center;">Room: Queen 2</p> <p style="text-align: center;">Teknolab Course in Gas Chromatography</p> <p style="text-align: center;">GC Troubleshooting</p> <p style="text-align: center;">By: Jaap de Zeeuw</p> <p style="text-align: center;">Visit teknolab.se/kurs/gc-kurser/ for more information about the course, and to register.</p>	
10:15-10:45	Coffee				
10:45-12:00	<p style="text-align: center;">Room: Grand Hall</p> <p style="text-align: center;">Organic Chemistry: Stimuli-responsive & Conjugated Systems</p> <p style="text-align: center;">Chair: TBA</p> <p style="text-align: center;">Keynote: A simple electromechanically responsive hydrocarbon based on [8]annulenes. Leonard Schilling, Lund University</p> <p style="text-align: center;">Electrifying redox-active covalent organic frameworks. Rikard Emanuelsson, Uppsala University</p> <p style="text-align: center;">Modulation of Lanthanide Luminescence with the Mechanical Bond. Anja Ramström, KTH Royal Institute of Technology</p> <p style="text-align: center;">Open-Flask, Ambient Temperature Conjugated Polymer Synthesis to Mixed Ionic-Electronic Conductors. Joost Kimpel, Chalmers University of Technology</p> <p style="text-align: center;">Oxotriphenylhexanoate (OTHO) gels, a highly modular platform for singlet-oxygen release with spatiotemporal control. Mario Martos González, University of Gothenburg</p>	<p style="text-align: center;">Power 1</p> <p style="text-align: center;">Surface & Materials Chemistry</p> <p style="text-align: center;">Chair: Karin Edler, Lund University</p> <p style="text-align: center;">Keynote: The many faces of corrosion. Inger Odneval, KTH Royal Institute of Technology</p> <p style="text-align: center;">Cryogenic XPS: 25 years probing intact interfaces in nature and life. Andrey Shchukarev, Umeå University</p> <p style="text-align: center;">Influence of Surface Chemistry on Adsorption and Lubricity of Boundary Films. Juliette Cayer-Barrio, Ecole Centrale de Lyon, France</p> <p style="text-align: center;">Design of hierarchical protein materials for a sustainable society. Christof Lendel, KTH Royal Institute of Technology</p> <p style="text-align: center;">Unraveling protein repulsion forces with nanocelluloses: insights from force spectroscopy. Jing Li, Stockholm University</p>	<p style="text-align: center;">Power 2</p> <p style="text-align: center;">Mass Spectrometry</p> <p style="text-align: center;">Chair: Jonas Bergquist, Uppsala University</p> <p style="text-align: center;">Berzelii Medal Awardee Silver: Anneli Kruve, Stockholm University</p> <p style="text-align: center;">Berzelii Medal Awardee Gold: Roman Zubarev, Karolinska Institutet</p> <p style="text-align: center;">11:45-12:00 Annual Proceedings of the Division of Mass Spectrometry</p>	<p style="text-align: center;">Room: Queen 1</p> <p style="text-align: center;">Physical & Theoretical Chemistry</p> <p style="text-align: center;">Chair: TBA</p> <p style="text-align: center;">Keynote: TBA</p> <p style="text-align: center;">Speaker 1: TBA</p> <p style="text-align: center;">Speaker 2: TBA</p> <p style="text-align: center;">Speaker 3: TBA</p>	<p style="text-align: center;">Room: Queen 2</p> <p style="text-align: center;">Teknolab Course in Gas Chromatography</p> <p style="text-align: center;">GC- Method development</p> <p style="text-align: center;">By: Jaap de Zeeuw</p> <p style="text-align: center;">Visit teknolab.se/kurs/gc-kurser/ for more information about the course, and to register.</p>
12:00-12:05	Break				
12:05-12:55	<p style="text-align: center;">Room: Grand Hall</p> <p style="text-align: center;">PLENARY 4</p> <p style="text-align: center;">TBA</p> <p style="text-align: center;">Leticia Gonzáles</p> <p style="text-align: center;">University of Vienna, Austria</p>				

12:55-13:15	Awards Nordic Retrosynthesis Challenge, Best Poster, Best Oral Presentation			
13:15-14:15	Lunch			
14:15-15:30	Room: Grand Hall TBA Chair: TBA Keynote: TBA Speaker 1: TBA Speaker 2: TBA Speaker 3: TBA	Room: Power 1 & 2 Publisher Session / Angewandte Chemie Workshop Chair: TBA Keynote: TBA Speaker 1: TBA Speaker 2: TBA Speaker 3: TBA	Room: Queen 1 Physical Chemistry Workshop Chair: TBA Keynote: TBA Speaker 1: TBA Speaker 2: TBA Speaker 3: TBA	Room: Queen 2 Teknolab Course in Gas Chromatography By: Jaap de Zeeuw Visit teknolab.se/kurs/gc-kurser/ for more information about the course, and to register.