SVENSKA KEMISAMFUNDET
Sektionen för ytkemi och materialkemi

Materials and Surfaces for Sustainability and Health

Umeå · 4–6 November 2026

Wednesday 4 November 2026

12.00–13.15 **Lunch & registration** *(KBC main hall)*

Session 1 — Renewable and Circular Bio-Based Materials (Chair: Emma Björk)
Carl Kempe Room; KBC Building KBC.E.340

13.15–13.30 **Welcome**
13.30–14.00 **Alexander Bismarck** (University of Vienna): *The magic in mushrooms: using fungi for materials*
14.00–14.30 **Kristiina Oksman** (Luleå University of Technology): *Cellulose composites: Nano-to-micro alignment from nanofibrils to reinforcing filaments*
14.30–15.00 **Tetyana Budnyak** (Uppsala University): *Lignin as a sustainable building block for functional materials in environmental applications*
15.00–15.30 **Christian Kugge:** *From seeds to trees where STEM sees and where surface chemistry matters for forest products*

15.30–16.15 **Coffee** *(KBC main hall)*

Session 2 — Biological Interfaces, Membranes and Health (Chair: Joakim Stenhammar)
Carl Kempe Room; KBC Building KBC.E.340

16.15–16.45 **Emma Sparr** (Lund University): *Self-assembly at drying interfaces*
16.45–17.15 **Hanna Wacklin-Knecht** (Lund University): *Self-assembly and structure of complex biological membrane models*

17.15–17.45 **Poster flash talks**
18.00–21.00 **Poster session + stand-up dinner** *(KBC main hall)*

Thursday 5 November 2026

Session 3 — Biological Interfaces, Membranes and Health (Chair: Sabrina Valetti)
Carl Kempe Room; KBC Building KBC.E.340

09.00–09.30 **Marta Bally** (Umeå University): *The native supported lipid bilayer: A bioanalytical platform to study and detect viruses*
09.30–10.00 **Frederick Heberle** (Stockholm University)**:** *Toward a quantitative framework for phase behavior in asymmetric lipid bilayers*
10.00–10.30 **Hanna Barriga** (KTH Royal Institute of *Technology): The impact of formulation conditions on the structure and function of lipid nanoparticles*

10.30–11.00 **Coffee** *(KBC main hall)*

Session 4 — Biological Interfaces, Membranes and Health (Chair: Hanna Barriga)
Carl Kempe Room; KBC Building KBC.E.340

11.00–11.30 **Nicolò Paracini** (University of Copenhagen): *Recent advances in grazing incidence small angle neutron scattering in soft matter*
11.30–12.00 **Marco Fornasier** (KTH Royal Institute of Technology): *How stabilizers rule physico-chemical and biological properties of lipid nanoparticles*
12.00–12.30 **Lucrezia Caselli** (University of Florence): *Lipoprotein corona reshapes the internal structure of lipid nanoparticles*

12.30–13.30 **Lunch** *(KBC main hall)*

Session 5 — Surface and Materials Chemistry: Characterization and Processing (Chair: Jean-François Boily)
Carl Kempe Room; KBC Building KBC.E.340

13.30–14.00 **Andrey Shchukarev** (Umeå University)**:** *25 years of cryogenic XPS at Umeå University*
14.00–14.30 **Per Persson** (Linköping University): *Advanced electron microscopy of low-dimensional materials*
14.30–15.00 **Feng Gao** (Linköping University): *Towards sustainable perovskite photovoltaics*

15.00–15.30 **Coffee** *(KBC main hall)*

Session 6 — Chemistry Europe Lecture (Chair: Jean-François Boily)
Carl Kempe Room; KBC Building KBC.E.340

15.30–16.15 **Paula Sebastián Pascual** (KTH Royal Institute of Technology)**:** *Pulse mediated electrodeposition of shaped structures for 5-hydroxymethylfurfural electrocatalysis*

16.15–17.00 **General assembly of the Section for Surface and Materials Chemistry**
19.00– **Conference dinner · P5 (downtown)**

Friday 6 November 2026

09.00–09.30 **Coffee** *(KBC main hall)*

Session 7 — Light-Matter Interactions and Energy Materials (Chair: Mark Rutland)
Lilla Hörsalen; KBC Building KBC.E.320

09.30–10.00 **Emil Byström** (SpinChem): *Making surfaces work: Rotating bed reactors for sustainability and health*
10.00–10.30 **Maria Abrahamsson** (Chalmers University of Technology): *Interfacial charge and energy transfer processes for solar energy conversion*
10.30–11.00 **Nicolò Maccaferri** (Umeå University): *Ultrafast spectroscopy of nanostructures and interfaces: from hot carriers to molecular polaritons*
11.00–11.30 **Daniel Weber** (Chalmers University of Technology): *Sustainable by design: A materials chemist's perspective from discovery to spin-off*
11.30–11.45 **Closing remarks**

11.45–13.00 **Lunch** *(KBC main hall)*

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