

Scientific Program

Monday 12th June

8:30 – 9:10 Welcome talks

Erik Renström, Vice-Chancellor of Lund University

Stefan Bengtsson, President at Chalmers University of Technology

Darja Isaksson, Director General of Vinnova

Mats Persson, The Swedish Minister of Education

9:10 – 10:15 High level panel debate: “Materials for a sustainable future”

ROOM: KÅRHUSET, AULA (3RD FLOOR)

MODERATOR:

Heiner Linke, Deputy dean (prorektor) at Faculty of Engineering, LTH and Professor of Solid State Physics

PANELISTS:

Joanna Drake, Deputy Director-General of the DG for Research and Innovation

Sara Mazur, Director Strategic Research, Knut and Alice Wallenberg Foundation

Tom Erixon, President and CEO of Alfa Laval

Heike Riel, IBM Fellow, Department Head Science & Technology, IBM Research Europe

10:15 – 10:45 Coffee break

PLACE: GASQUESALEN

10:45 – 12:45 Parallel Sessions

Green Energy – materials for harvesting KÅRHUSET'S LECTURE HALL	Graphene and 2D materials V-HOUSE, LECTURE HALL A	Safe and Sustainable by Design KÅRHUSET, AULA (3 RD FLOOR)
<p>CHAIR: Peter Dröll (European commission, DG RTD)</p> <p>SPEAKERS: Eicke Weber, ISES and European Solar Manufacturing Council ESMC; <i>Unlimited fusion power from the Sun: The market and technology perspective of Photovoltaics.</i></p> <p>Jonas Groten, Joanneum Research Austria. <i>Energy harvesting materials for autonomous sensor systems in remote area applications</i></p> <p>Talk 3: Hydrogen technology TBC Talk 4: Hydrogen technology TBC</p>	<p>CHAIR: Jari Kinaret, Chalmers</p> <p>SPEAKERS: Mamoun Taher, Graphmatech Inge Asselberghs, IMEC, Belgium Stijn Goossens, Qurv, ES Antonio Agresti, Univ. Rome Tor Vergata, IT</p>	<p>CHAIR: Sofie Norager, European Commission</p> <p>SPEAKERS: Irantzu Garmendia Aguirre, JRC; <i>Introduction to the SSbD framework</i></p> <p>Lya Hernandez, RIVM, the Dutch National Institute for Public Health and the Environment; <i>Safe and Sustainable by Design (SSbD): State of the art and lessons learned in design thinking</i></p> <p>Alexander Pogány, Austrian BMK; <i>Moving from nanosafety to SSbD</i></p> <p>Marcel Meus, EMIRI; <i>Influences of SSbD framework application on battery cell design (working title).</i></p> <p>Stefan Spirk (Ecolyte), Andreas Falk (BNN), both SusChem Austria. <i>SSbD assessment framework application to development of an ecofriendly electrolyte for redox flow batteries (working title)</i></p>

12:45 – 13:30 Lunch

PLACE: GASQUESALEN

13:30 – 14:25 Plenary

ROOM: KÅRHUSET, AULA (3RD FLOOR)

CHAIR:

Landon Mertz

SPEAKERS:

Linnea Selegård, SAAB.

Talk title: TBC

Anna Jöborn, MISTRA;

The importance of long-term commitments for creating a safe and sustainable Europe - How funding strategies can support collaboration and impact of science in society.

Peter Dröll, EC, DG RTD;

The coordinated plan on advanced materials



14:30 – 16:00 Parallel Sessions

Green Energy - Advanced materials for storage KÅRHUSETS LECTURE HALL	Semiconductors and materials for future chips V-HOUSE, LECTURE HALL A	AMI2030 KÅRHUSET, AULA (3RD FLOOR)
<p>CHAIR:</p> <p>SPEAKERS</p> <p>Sami Haikala, Chief Development Officer, Northvolt. <i>Pioneer European R&D Campus for development of the greenest battery on Earth.</i></p> <p>Patrice Simon, Université Paul Sabatier, Toulouse, France.</p> <p>Kristina Edström, Professor at Department of Chemistry - Ångström Laboratory, Structural Chemistry, Uppsala, Sweden</p>	<p>CHAIR:</p> <p>Lars-Erik Wernersson, Lund University</p> <p>SPEAKERS</p> <p>Fredrik Tillman, Ericsson, Sweden</p> <p>Mikael Östling, KTH, Sweden</p> <p>Mika Prunnila, VTT, Finland</p>	<p>ORGANIZERS:</p> <p>Christian Seitz, BASF and Philippe Jacques, EMIRI</p> <p>MODERATOR:</p> <p>Steffi Friedrichs</p> <p>PANEL DEBATE</p>

16:00 – 17:00 Poster Session and Exhibition and Coffee Break

ROOM: GASQUESALEN

Welcome to the poster and exhibition area!

17:00 – 18:00 Parallel Sessions

Energy efficiency: materials for sustainable industries KÅRHUSETS LECTURE HALL	Semiconductors and materials for future chips V-HOUSE, LECTURE HALL A	How to enable the inclusion of citizens and societal actors in the shaping of Advanced Materials? KÅRHUSET, AULA (3 RD FLOOR)
SPEAKERS Vanya Darakchieva , Professor at Solid State Physics, Lund Andrea Niklas , Azterlan, Spain Talk 3:	CONTACT PERSON: Lars-Erik Wernersson , Lund University	CONTACT PERSONS: Marco Falzetti , APRE & Eumat & NCP4Industry Amaya Igartua , Tekniker & Eumat Winfried Keiper , Keiper Consulting & Eumat Andrea Porcari , Airi-Italian Association for Industrial Research and SockETs project

Tuesday 13th June

9:00 – 10:15 Plenary talks

ROOM: KÅRHUSET, AULA (3RD FLOOR)

CHAIR:

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SPEAKERS

Landon Mertz, CEO Cerion Nanomaterials, USA

Marina Zanchi, Director HaDEA, Belgium

Jari Kinaret, Chalmers, Sweden. *Academy-industry collaborations: experiences from two case studies*

10:45 – 12:45 Parallel Sessions

Quantum technologies – Europe’s major role KÅRHUSETS LECTURE HALL	Advanced Materials & Manufacturing V-HOUSE, LECTURE HALL A	European Infrastructures – From fundamental science to industrial applications KÅRHUSET, AULA (3RD FLOOR)	The Human Brain Project as an enabler for neuro-derived technologies V-HOUSE, LECTURE HALL B
<p>CHAIR: Anton Frisk Kockum</p> <p>TALK Klaus Mølmer, Niels Bohr Institute, University of Copenhagen. <i>A historic perspective on quantum technology in Europe</i></p> <p>TALKS AND PANEL DEBATE ON QUANTUM LIFE SCIENCE: Lene Oddershede, Novo Nordisk Foundation Ann-Marie Wennberg, Sahlgrenska Johannes Swartling, Deep Light Vision</p> <p>MODERATOR: Ebba Carbonnier, SweLife</p> <p>TALKS Samuel Lara Avila, Chalmers. <i>2D-Tech, potential of quantum materials</i> Alexia Auffèves, CNRS MajuLab Singapore <i>Quantum energy footprint</i></p>	<p>CHAIR: Victoria Petrova (HaDEA)</p> <p>SPEAKERS Marco Sebastiani, Univ. Roma3, Italy <i>Advanced characterisation in the Digital era; vision, opportunities, and challenges</i> Gerhard Goldbeck, EMMC ASBL, Belgium; <i>The European Materials Modelling Council (EMMC) and Roadmapping activities – links to Materials 2030 Roadmap and AMI2030 WG1 on Digitalisation</i></p> <p>PANEL DEBATE: INITIATION OF EMCC ROADMAPPING ACTIVITIES Costas Charitidis, NTU, Athens; Ennio Capria, ESRF; Spyros Diplas, SINTEF Norway; Gerhard Goldbeck EMMC ASBL, Belgium; Elias Koumoulos, IRES, Belgium; Marco Sebastiani, Univ. Roma3, Italy Natalia Konchakova, Helmholtz -Hereon, Germany Peter Klein, Fraunhofer ITWM, Germany <i>Open Discussion with audience (15 min)</i></p>	<p>CHAIR: Giorgo Rossi, University of Milan, Italy</p> <p>PANELISTS: Jörg Hübner, DTU, Denmark Pieter Telleman, Utwente, Netherlands Anna Hultin Stigenberg, MaxIV, Sweden</p> <p>FROM INVENTIONS TO INNOVATIONS:</p> <p>CHAIR: Maryam Olsson, RISE, Sweden</p> <p>PANELISTS: Tomas Sikola, CEITEC Center, Central European Institute of Technology, Brno, Czech Republic Erasmia Dupenloup, CEO Minalogic, Grenoble</p>	<p>CHAIR:</p> <p>TALKS Part 1: Neurotech SPEAKERS: Andreas Rowald, Friedrich-Alexander University Erlangen-Nürnberg, <i>Precision Neurostimulation towards the Nanoscale: A Computational Perspective</i> Maria Asplund, IMEC / Chalmers. <i>Engineering for biocompatibility and the vision of a seamless electrode-neuron interface</i></p> <p>TALKS Part 2: Atomistic and molecular dynamics in the brain SPEAKERS: Adam Hospital, IRB Barcelona. Biomolecular simulations and macromolecular flexibility databases in the EBRAINS research infrastructure: exploring the dynamics of central nervous system molecules. Francesca Spyraakis, University of Turin. Talk title TBC</p>

13:45 – 16:15: Parallel Sessions

EU Quantum technology KÅRHUSET'S LECTURE HALL	Advanced Materials & Manufacturing V-HOUSE, LECTURE HALL A	European Infrastructures – Technology infrastructures KÅRHUSET, AULA (3RD FLOOR)
<p>CHAIR:</p> <p>SPEAKERS:</p> <p>Tommaso Calarco, FZ Juelich; <i>Quantum technologies in Europe: from a Flagship to a fleet</i></p> <p>Robert Harrison, QuIC; <i>Magnifying the impact of Europe's Quantum Industry on the Global Stage</i></p> <p>Sabrina Maniscalco, University of Helsinki; <i>Quantum algorithms and use cases for Life Sciences</i></p> <p>Per Delsing, Chalmers; <i>WACQT 2018-2029 – a Swedish quantum computer ecosystem</i></p> <p>Göran Wendin, Chalmers; <i>Building a European HPC+QC ecosystem</i></p>	<p>CHAIR:</p> <p>Anders Mikkelsen Lund University.</p> <p>SPEAKERS:</p> <p>Steffi Friedrichs, acumenist, Brussels;</p> <p>Susanne Norgren, Sandvik; <i>Neutrons to rock drilling & machining – recycling and back</i></p> <p>Erik Khranovskyy, CEO Grafren;</p> <p><i>Multifunctionality of materials as the way to sustainable and resilient future</i></p> <p>Serena Borgna, APRE & NCP4Industry.</p> <p>Nazih Mechbal, PIMM - UMR CNRS; <i>A cognitive paradigm for manufacturing, health monitoring and recycling of hybrid aeronautical composite structures</i></p>	<p><i>State-of-the-play: Good examples and comparisons</i></p> <p>CHAIR:</p> <p>Spela Stres, EIC Head of Center for Technology Transfer and Innovation, Jožef Stefan Institute, Slovenia</p> <p>PANELISTS</p> <p>Thomas Swahn, Director MyFab & Member of Nordic Fabs</p> <p>Brendan Brough, Director NNCO (National Nanotechnology Coordination Office)</p> <p>Christian May, Coordinator FF2S FhG-FEP</p>

16:15 Closing, coffee and final discussions

PLACE: GASQUESALEN