

Program

Sunday 11th June

13:00 area opens for setting up posters and exhibits

14:00 Physics and Lasershow

15:30 Physics and Lasershow

17:00 Physics and Lasershow

18:00 – Opening Get-together

We invite you to a Welcome Reception in the exhibition area.

PLACE: GASQUESALEN

Welcome talks by Mats Helmfrid (Mayor of the City of Lund)
Anna Jähnke (Regional Council), and Annika Olsson (Dean of Engineering Faculty).



Physics and Lasershow. Photo: K. Ruona

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



Tom Erixon



Joanna Drake



Heike Riel



Heiner Linke

10:15 – 10:45 Coffee break

PLACE: GASQUESALEN

10:45 – 12:45 Parallel Sessions

Green Energy – materials for harvesting KÅRHUSET 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>Antonio Rinaldi, ENEA, Italy; <i>From NEXTOWER to SISAL-SLAG: advanced materials solutions for next generation CSP tower systems and CO² looping</i></p> <p>Roberto Gómez, University of Alicante, Spain; <i>Novel photoelectrochemical devices based on earth-abundant advanced materials to produce solar hydrogen</i></p>	<p>CHAIR: Jari Kinaret, Chalmers</p> <p>SPEAKERS: Mamoun Taher, Graphmatech; <i>Talk title TBC</i> Inge Asselberghs, IMEC, Belgium; <i>Enabling a European ecosystem for 2D materials processing: update on the 2D-experimental pilot line</i></p> <p>Stijn Goossens, Qurv, ES; <i>Enabling a world of enhanced perception</i></p> <p>Antonio Agresti, Univ. Rome Tor Vergata, IT; <i>Perovskite-based photovoltaic and 2D materials: fostering an innovative PV technology in an industrially relevant environment.</i></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>Nanosafety also with SSbD</i></p> <p>Marcel Meeus, EMIRI; <i>SSbD framework for Batteries</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</i></p>

12:45 – 13:30 Lunch

PLACE: GASQUESALEN

13:30 – 14:25 Plenary: Advanced materials from academia to industry – cooperation and strategies

ROOM: KÅRHUSET, AULA (3RD FLOOR)

CHAIR: **LANDON MERTZ**, CEO Cerion Nanomaterials

SPEAKERS:

Linnea Selegård, SAAB Dynamics

Talk title: Advanced materials for Aerospace – The power of long-term industry- academy collaborations and its outcomes.

Anna Jöborn, CEO of MISTRA

Talk title: The importance of long-term commitments for creating a safe and sustainable Europe.

Peter Dröll, EC, DG RTD

Talk title: The coordinated plan on advanced materials.



Peter Dröll



Linnea Selegård



Anna Jöborn



Landon Mertz

14:30 – 16:00 Parallel Sessions

Green Energy - Advanced materials for storage KÅRHUSET'S LECTURE HALL	Semiconductors and materials for future chips V-HOUSE, LECTURE HALL A	AMI2030 KÅRHUSET, AULA (3 RD FLOOR)
<p>CHAIR: Patrik Johansson, Chalmers</p> <p>SPEAKERS Kristina Edström, Department of Chemistry - Ångström Laboratory, Structural Chemistry, Uppsala, Sweden; <i>Materials Science at the Heart of European Battery Research</i> Sami Haikala, Chief Development Officer, Northvolt. <i>Pioneer European R&D Campus for development of the greenest battery on Earth.</i> Patrice Simon, Université Paul Sabatier, Toulouse, France. <i>Tracking ion fluxes in electrodes for energy storage applications.</i></p>	<p>CHAIR: Lars-Erik Wernersson, Lund University</p> <p>SPEAKERS Fredrik Tillman, Ericsson, Sweden; <i>The need for early technology exploration</i> Mikael Östling, KTH, Sweden <i>European Chips Act and the Shortage of Talents</i> Mika Prunnila, VTT, Finland; <i>Quantum Technologies is Novel Microelectronics</i></p>	<p>WELCOME Lars Montelius</p> <p>SPEAKER Philippe Jacques EMIRI; <i>Introductory presentation of AMI2030</i></p> <p>CHAIR/MODERATOR: Steffi Friedrichs, AcumenIST, Brussels, BE</p> <p>PANEL DEBATE Peter Rucinski, Senior Director, Dassault Systèmes Solidworks Jari Kinaret, Chalmers, Director Graphene Flagship Peter Dröll, Director Prosperity, DG RTD, EC Jaroslav Piekarski, NCBR, NCP Poland Cluster 4 Philippe Jacques, EMIRI, Coordinator of AMI2030 Monique Groenewold, RIVM, OECD Working Party on Manufactured Nanomaterials</p>

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

ROOM: GASQUESALEN

Welcome to the poster and exhibition area!



Photo: K. Ruona

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)
<p>CHAIR: Lars Samuelson, Lund University and SUSTech, China</p> <p>SPEAKERS Vanya Darakchieva, Professor at Solid State Physics, Lund; <i>Next generation semiconductors for future sustainable electronics</i></p> <p>Andrea Niklas, Azterlan, Spain; <i>High Performance Materials for extreme Energy Intensive Industry Process Environments.</i></p> <p>Matti Mäntysalo, TAU, FI; <i>Fabrication of monolithic supercapacitors by screen printing.</i></p>	<p>CHAIR/MODERATOR Lars-Erik Wernersson, Lund University</p> <p>PANEL DEBATE: THE NEED FOR SEMICONDUCTOR INFRASTRUCTURE FROM A SME PERSPECTIVE Jonas Sundqvist, Co-founder and CEO of AlixLabs; Bo Hammarlund, CEO of UWBG Cutting Edge Technologies and Serial Entrepreneur. Johan Ekman, CEO of Kiselkarbid i Stockholm AB (Kisab); Jörg Hübner, Director of DTU Danchip, the National Center for Micro-and Nanofabrication in Denmark;</p>	<p>WELCOME Marco Falzetti, APRE & Eumat & NCP4Industry</p> <p>SPEAKER Andrea Porcari, Airi and SocKETs project, IT; <i>Learning on societal engagement in technology innovation</i></p> <p>MODERATOR Sofie Norager, European Commission, BE;</p> <p>PANEL DEBATE Blanka Lenzowski, Airbus, DE Cissi Askwall, Public & Science, SE Kathrine Collin Hagan, Danish Board of Technology and SocKETs, DK Steffen Foss Hansen, Technical University of Denmark (DTU), DK Roland Brandenburg, FFG - Austrian Research Promotion and M-ERA.NET, AT</p>

Monday 12 June, 19:00 Gala dinner in AF-Borgen

The historic castle AF-Borgen has been the students' home since 1851, right in the heart of Lund.

Address: AF-Borgen, Sandgatan 2, 223 50 Lund

Tuesday 13th June

9:00 – 10:15 Plenary talks

ROOM: KÅRHUSET, AULA (3RD FLOOR)

CHAIR:

Lars Samuelson, Lund University and SUSTech, China

SPEAKERS

Landon Mertz, CEO Cerion Nanomaterials, USA: *How do we compete going forward?*

Economic, Defense, and Foreign Policy Implications in the Race for Supremacy of General Purpose Technologies

Marina Zanchi, Director HaDEA, Belgium: *Advanced materials and sustainable manufacturing in HaDEA-funded collaborative projects*

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

10:15 – 10:45 Coffee break

PLACE: GASQUESALEN



During the dinner, a folk-dance group will perform.



AF-Borgen in the heart of Lund.

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 (3 RD FLOOR)	The Human Brain Project as an enabler for neuro-derived technologies V-HOUSE, LECTURE HALL B
<p>CHAIR: Anton Frisk Kockum, Chalmers.</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</p> <p>Ann-Marie Wennberg, Sahlgrenska Johannes Swartling, Deep Light Vision</p> <p>MODERATOR: Ebba Carbonnier, SweLife, Karolinska Institutet</p> <p>TALKS Samuel Lara Avila, Chalmers. <i>2D-Tech, potential of quantum materials</i></p> <p>Alexia Auffèves, CNRS MajuLab Singapore Quantum energy initiative</p>	<p>CHAIR: Victoria Petrova, HaDEA, Brussels</p> <p>SPEAKERS Marco Sebastiani, Univ. Roma3, Italy <i>Advanced characterisation in the Digital era; vision, opportunities, and challenges</i></p> <p>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, NTUA, Athens; Ennio Capria, ESRF; Gerhard Goldbeck EMMC ASBL, Belgium; Magnus Fredriksson, Alfa Laval, Sweden Marco Sebastiani, Univ. Roma3, Italy; Georgios Konstantopoulos, NanoME-Commons H2020 project, Greece; Natalia Konchakova, Helmholtz -Hereon, Germany Peter Klein, Fraunhofer ITWM, Germany</p>	<p><i>From Fundamental Research to Invention</i></p> <p>CHAIR/MODERATOR: Giorgo Rossi, University of Milan, Italy</p> <p>SPEAKER Bertrand Fillon, CEA, France; <i>Introductory speech</i></p> <p>PANELISTS Jörg Hübner, DTU, Denmark Pieter Telleman, Utwente, Netherlands Anna Hultin Stigenberg, MaxIV, Sweden Gaelle Decroix, CEA, France Thomas Swahn, MyFab, Sweden</p>	<p>CHAIR: Ausra Saudargiene, Neuroscience Institute, Lithuanian University of Health Sciences</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; <i>Biomolecular simulations and macromolecular flexibility databases in the EBRAINS research infrastructure: exploring the dynamics of central nervous system molecules.</i> Francesca Spyraakis, University of Turin; <i>In silico design of novel NLRP3 allosteric inhibitors to fight neuroinflammation and neurodegeneration</i></p>

12:45 – 13:45 Lunch

13:45 – 16:15: Parallel Sessions

Quantum technologies – Europe’s major role KÅRHUSETS LECTURE HALL	Advanced Materials & Manufacturing V-HOUSE, LECTURE HALL A	European Infrastructures – Technology infrastructures KÅRHUSET, AULA (3 RD FLOOR)
<p>CHAIR: Martin Leijnse, Lund University, SE.</p> <p>SPEAKERS: Tommaso Calarco, FZ Juelich, DE; <i>Quantum technologies in Europe: from a Flagship to a fleet</i> Robert Harrison, QuIC; <i>Magnifying the impact of Europe’s Quantum Industry on the Global Stage</i> Elsi-Mari Borelli, Algorithmiq, FI; <i>Quantum algorithms and use cases for Life Sciences</i> Per Delsing, Chalmers, SE; <i>WACQT 2018-2029 – a Swedish quantum computer ecosystem</i> Göran Wendin, Chalmers, SE; <i>Building a European HPC+QC ecosystem</i></p>	<p>CHAIR: Anders Mikkelsen Lund University, SE.</p> <p>SPEAKERS: Susanne Norgren, Sandvik, SE; <i>Neutrons to rock drilling & machining – recycling and back</i> Diego Coglitore, APRE & NCP4Industry, IT; <i>NCP4Industry – the Horizon Europe Cluster 4 Industry National Contact point Network and the European Industrial R&I community</i> Nazih Mechbal, PIMM - UMR CNRS, FR; <i>A cognitive paradigm for manufacturing, health monitoring and recycling of hybrid aeronautical composite structures</i> Steffi Friedrichs, AcumenIST, Brussels, BE; <i>Shared Responsibilities & collaborative R&I Approaches – Ensuring safe & sustainable Products & Processes throughout complex Value-Chains</i> Erik Khranovskyy, CEO Grafren, SE; <i>Multifunctionality of materials as the way to sustainable and resilient future</i></p>	<p><i>From Inventions to Innovations and Different Innovation Models</i></p> <p>CHAIR/MODERATOR: Marcel Van de Voorde, IMEC, Belgium</p> <p>SPEAKER Giorgio Rossi, Univ. Milan, Italy; <i>Introductory speech</i></p> <p>PANELISTS Tomáš Šikola, CEITEC, Czech Republic Branden Brough, NNCO, USA Christian May, Fraunhofer, Germany Sandrine Labigree, IPC, France Olivier Hasse, INAM, Germany Kamel Besbes, Tunis NanoCenter, Tunisia Adam Edström, RISE, Sweden Lena Killander, Vinnova, Sweden Mariam Debs, INL, Portugal Anna Stenstam, CR Competence, Sweden</p>

16:15 Closing, coffee and final discussions

PLACE: GASQUESALEN