

Advanced material for a brighte

Swedish Graphene Forum 2022 Programme Agenda

Day 1 18 October

09.00-11.00 Study visit, Mid Sweden University, Holmgatan 10, hus S **11.30-13.00** Registration, lunch & mingle, Clarion Hotel, Skepparegatan 9 **13.00-15.00** Speaker block 1

• Graphene thermal strap for electronic component cooling application, Ros-Marie Lundh, Saab

• Graphene switchable waveguides for high-frequency applications, Sadia Farjana, Chalmers

- 2D graduate network, Jens Eriksson, Linköping University
- Standardization, a road to graphene market, Asalie Hartmanis, CIT
- Facilitating graphene based innovation mapping of testbeds and infra structure, Stacy Trey, RISE
- Sustainable carbon alternative for production of graphene, Sofia Öiseth, CIT
- Development of methods for exposure and risk managemant for industrial use of graphene, Håkan Tinnerberg, University of Gothenburg
- Testbed: Roll-2-roll coating of graphene composites, Nicklas Blomquist, Mid Sweden University
- Projects in Horizon Europe, Jeanette Spühler, Vinnova

15.00-15.30 Coffee break and mingle.

15.30-17.10 Speaker block 2

- Fibre optics with graphene, Åsa Claesson, RISE
- Image analysis of graphene through machine learning, Lilei Ye, CIT
- A low cost dioxin sensor based on epitaxial high-purity, single-crystal graphene on silicon carbide, Jens Eriksson, Linköping University

 Development of enhanced thermal interface materials for electronics and power module cooling application, Tongchang Zhou, SHT Smart High Tech

• Graphiti - adsorbents with cellulose and graphene for art preservation, Hanna Johansson, Adsorbi

• Graphene-cellulose composite for electrode applications, Christina Dahlström, Mid Sweden University

 Proof-of-concept of a novel gas sensor based on MoS2 with hexagonal holes, Patrik Bjöörn, Smena Catalysis

 Bio-based graphene coatings for anode materials in Li-ion battery, Illia Dobryden, RISE

• Graphene-nanodots for sustainable fabrication of light-emitting devices for medtech applications, Christian Larsen, LunaLEC

15.30-17.10 Speaker block 2 continous

• Graphene oxide coated fibres for improved chemical resistance of FRP, Love Pallon, RISE

• Application of graphene enhanced foam materials for noise damping in vehicles, Flavio Presezniak, Volvo Trucks

18.15-19.00 Mingle and release party for a SIO Grafen film

19.00-21.00 Dinner at Clarion Hotel

Day 2 19 October

07.30-08.00 Coffee available

08.00-09.30 Speaker block 1

• Development of graphene-based antibacterial surface for medical devices, Martin Lovmar, Wellspect

Silicon graphene composite electrode for lithium ion batteries,

Magnus Hummelgård, Mid Sweden University

• Multifunctional graphene-enhanced thermoplastics for aerospace applications, Sven Forsberg 2D fab

• Optimizing graphene-enhanced biobased coatings for corrosion protection of hot-dip galvanized steel, Wei Zhao, RISE

• CorroNite – a new thermochemical treatment for increased resistance against corrosion and wear, Martin Bengtsson, Tribonex

• Graphene based electromagnetic compatibility material, Hans Grönqvist, RISE

09.30-10.00 Coffee break and mingle

10.00-12.00 Speaker block 2

 Improved properties of additively manufactured metals by adding graphene, Marta-Lena Antti, Luleå University of Technology

- Graphene enhanced conductive cementitious coating, Luping Tang, Chalmers
- High Impact Resistant Composites, Mats Bergvall, RISE
- Graphene based extrusion coating for paperboard, Andreas Fall, RISE

• Verification of long-term properties of graphene-based textile pressure sensors, Valter Dejke, RISE

WIRA - New industrial arenas for advanced materials, Magnus Svensson, WISE

Vinnova's area Sustainable industry, Andrew Marais, Vinnova

12.00-12.45 Lunch

13.00-14.00 Study visit 2D fab and Granode Materials, Montörvägen 7



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