



**Preliminary agenda:**

✓ Tuesday October 13<sup>th</sup>

10.00-12.20      Session 1

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**Going green with graphene-demonstrator**

Mohamed Loukil, Linköping University

**Electrochemical impedance spectroscopy with resistive electrodes: A new platform for biosensing and medical applications**

Av gust Yurgens, Chalmers

**Health monitoring in airplanes**

Per Hallander, Saab, Carolyn Oddy, GKN Aerospace

**Graphene enabled structural wiring in composite materials for sustainable transport**

Tommy Öhman, RISE

**Structural battery composites with improved power performance**

Leif Asp, Chalmers

**12.20-13.20** Lunch and mingle, 2D material exhibition.

13.20-15.00      Session 2

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**Laser-assisted manufacturing of a catheter with a graphene-based antibacterial surface**

Martin Lovmar, Wellspect

**Towards intelligent based graphene-based composites**

Roland Kadar, Chalmers

**Demonstrating a new thermo-chemical surface treatment for corrosion and wear resistance**

Martin Hansén, Tribonex

**2D material based thermal management for electronics and battery cooling – Examples of commercialisation**

Johan Liu, Chalmers

**15.00-15.30** Fika and mingle, 2D material exhibition.

## 15.30-17.00 Session 3

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### **2D materials for energy storage: From electrode processing to device performance**

Jinhua Sun, Chalmers

### **Graphene-enabled semiconductor solutions for the high-tech industry**

Arne Quellmalz, In2GreatMaterials

### **2D Graduate Network**

Speaker: TBC

### **2D-TECH's prize to best PhD thesis within 2D materials 2026**

Prize winning ceremony

### **SIO Grafen's prize to best Master thesis within 2D materials 2026**

Prize winning ceremony

19.00 Dinner

 Wednesday October 14<sup>th</sup>

## 09.30-12.00 Session 4

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### **Invited presentation: Title TBA**

Lisa Scullion, Graphene Engineering Innovation Centre, UK

### **LCA tool for graphene**

Karin Persson, RISE

### **Graphene in the automotive industry**

Arian Kamal, Volvo Cars

### **Scalable fabrication of efficient MoS<sub>2</sub>-based gas sensors for air quality monitoring**

Timur Shengai, Chalmers and Smena Sense

### **prGO for power grid components**

Yusuf Mulla (TBC), RISE

### **Thermally conducting paper substrates**

Reverant Crispin, Linköping University

12.00-13.00 Lunch and mingle, 2D material exhibition.

## 13.00-15.00 Session 5

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### **Strategic research area Materials 4.0 Sweden**

Speaker: TBC

### **2D materials and van der Waals heterostructures for nonvolatile memories**

Saroj Dash, Chalmers

### **Risk assessment for novel materials – graphene related material as an example**

Håkan Tinnerberg, Sahlgrenska

### **Growing 2D material companies**

Speakers: TBC

## The next years for the Swedish 2D material ecosystem

Elisabeth Sagström-Bäck, SIO Grafen, Samuel Lara-Avila, 2D-TECH

**15.00-17.15** Study visit Proveda or Chalmers Nanofactory Laboratory, for those who registered.

