

9th EU-Korea workshop on graphene and 2D materials

Workshop Programme

26 May 2025, 9:00-17:45 CEST

Institute for Supramolecular Science and Engineering (ISIS), University of Strasbourg

8 allée Gaspard Monge, 67083 Strasbourg Cedex, France

Workshop chairs: Prof. Paolo Samorì (France) and Prof. Sang Ouk Kim (Republic of Korea)

Meeting agenda		
09:00 – 09:10	Paolo Samorì, Jong-Hyun Ahn	Opening remarks
Session 1 – Chair: Paolo Samorì		
09:10 – 09:25	Maria Abrahamsson	<i>The Graphene Flagship initiative evolution</i>
09:25 – 09:50	Hyeon Suk Shin	<i>2D Confined High-Pressure Nanoreactors</i>
09:50 – 10:15	Henry Medina Silva	<i>Single-crystalline transition metal dichalcogenides in industrial reactors within a silicon CMOS fab</i>
10:15 – 10:40	Gwan-Hyoung Lee	<i>Atomic Reconstruction and Domain-wall-free Sliding Ferroelectricity in Transition Metal Dichalcogenide Bilayers</i>
10:40 – 11:10	Coffee break	
Session 2 – Chair: Jong-Hyun Ahn		
11:10 – 11:35	Paolo Samorì	<i>The molecular approach to multifunctional 2D electronics: from high-performance pressure sensors to brain-inspired cognitive systems</i>
11:35 – 12:00	Chong Min Koo	<i>Surface Chemistry and Defect Engineering in MXenes</i>

12:00 – 12:25	Hamed Pourkheirollah	<i>Advancements in Supercapacitor Technology: Optimizing Graphene-Enhanced Carbon Materials for Printed Supercapacitor Applications</i>
12:25 – 13:00	Visit of ISIS facilities	
13:00 – 14:00	Lunch	
Session 3 – Chair: Hyeon Suk Shin		
14:00 – 14:25	Jong-Hyun Ahn	<i>2D Material-Based Implantable Devices for Neural Recording and Stimulation</i>
14:25 – 14:50	Ahmed Elmarakbi	<i>Design, Development, and Industrial Scale-Up of Sustainable Graphene-Based Multifunctional Materials: The GIANCCE Approach</i>
14:50 – 15:15	Seoung-Ki Lee	<i>Laser-Driven Structural Engineering of 2D Materials for Enhanced Electrochemical Reactivity</i>
15:15 – 15:40	Jonathan Coleman	<i>Printed nanosheet networks for electronic applications</i>
15:40 – 16:10	Coffee break	
Session 4 – Chair: Jonathan Coleman		
16:10 – 16:35	Spyros Yannopoulos	<i>Laser-assisted production of high-quality graphene and graphene-based nanohybrids: Innovative processes in energy storage devices</i>
16:35 – 17:00	Joonwon Lim	<i>Heterogeneous Gold Nanoparticle Formation on MXene Substrates</i>
17:00 – 17:25	Burkay Uzlu	<i>Enabling Scalable 2D Integration for Edge AI and Neuromorphic Systems</i>
17:25 – 17:45	Closing remarks and future perspectives	