

***The 7<sup>th</sup> Graphene Flagship EU-Korea Workshop on Graphene and related 2D materials***

**Programme**



**5 September 2022**

Munich, Germany

Venue: [Eurostars Grand Hotel](#)

Arnulfstraße 35, 80636 Munich (Germany)

Room **TBD** – Floor **TBD**

**Workshop chairs:** Prof. Jari Kinaret (Sweden) and Prof. Hyeon Suk Shin (Republic of Korea)

**Programme chairs:** Prof. Paolo Samorì (France) and Prof. Tae-Woo Lee (Republic of Korea)

<b><i>September 04<sup>th</sup>, 2022</i></b>		
<b>19:00</b>	<b>Workshop welcome dinner at Augustiner Keller</b>	
<b><i>September 05<sup>th</sup>, 2022</i></b>		
<b>08:30 – 09:00</b>	<b>Networking breakfast</b>	
<b>09:00 – 09:40</b>	<b>Welcome and introduction</b> Jari Kinaret, Hyeon Suk Shin, Paolo Samorì and Kwanpyo Kim	
<b><i>Session1</i></b>		
<b><i>Chair: Paolo Samorì</i></b>		
<b>09:40 – 10:05</b>	<i>Sang Ouk Kim, Korea Advanced Institute of Science and Technology</i>	Graphene Oxide Liquid Crystal for Real-World Graphene Applications
<b>10:05 – 10:30</b>	<i>Patrick Johansson, Chalmers University of Technology</i>	Next generation batteries - graphene an enabler?
<b>10:30 – 10:50</b>	<b>Coffee break</b>	

<b>Session2</b>		
<i>Chair: Kwanpyo Kim</i>		
10:50 – 11:15	<i>Keun Su Kim, Yonsei University</i>	Pseudogap in a surface-doped puckered honeycomb crystal
11:15 – 11:40	<i>Cecilia Mattevi, Imperial College London</i>	3D Printed Zinc Ion Batteries for Wearable Electronics
11:40 – 12:05	<i>Heejun Yang, Korea Advanced Institute of Science and Technology</i>	Van der Waals Heterostructures for Orbital Gating-Based Phototransistors and Electronic Spectroscopy
<b>12:05 – 13:30</b>	<b>Lunch</b>	
<b>Session3</b>		
<i>Chair: Xinliang Feng</i>		
13:30 – 13:55	<i>Sanna Arpiainen, VTT</i>	Wafer-scale graphene processing and integration on CMOS
13:55 – 14:20	<i>Kwanpyo Kim, Yonsei University</i>	Strong anisotropy of black phosphorus visualized by electron microscopy
14:20 – 14:45	<i>Paolo Samori, University of Strasbourg</i>	Boosting charge injection and charge transport in 2D transistors
14:45 – 15:10	<i>Hyobin Yoo, Sogang University</i>	Operando TEM investigation on domain dynamics in 2-D ferroelectric materials
15:10 – 15:30	<b>Coffee break</b>	
<b>Session4</b>		
<i>Chair: Hyeon Suk Shin</i>		
15:30 – 15:55	<i>Xinliang Feng, TU Dresden</i>	Organic 2D Membranes
15:55 – 16:20	<i>Jonghwan Kim, Pohang University of Science and Technology</i>	Probing deep-ultraviolet optoelectronic processes in hexagonal boron nitride
16:20 – 16:45	<i>Andrea C. Ferrari, University of Cambridge</i>	<b>TO ADD</b>
<b>16:45 – 17:30</b>	<b>Final discussion</b>  Moderators: Paolo Samorì & Kwanpyo Kim	
<b>18:30 – 20:30</b>	<b>Graphene Week 2022 Welcome Reception at BMW Welt, Munich</b>	

**List of participants**

<b>Title</b>	<b>Last name</b>	<b>First name</b>	<b>Institution</b>	<b>Country</b>
Prof.	Kim	Kwanpyo	Yonsei University	Republic of Korea
Prof.	Kim	Sang Ouk	Korea Advanced Institute of Science and Technology	Republic of Korea
Prof.	Kim	Keun Su	Yonsei University	Republic of Korea
Prof.	Kim	Jonghwan	Pohang University of Science and Technology	Republic of Korea
Prof.	Shin	Hyeon Suk	UNIST	Republic of Korea
Prof.	Yang	Heejun	Korea Advanced Institute of Science and Technology	Republic of Korea
Prof.	Yoo	Hyobin	Sogang University	Republic of Korea
Dr	Arpiainen	Sanna	VTT	Finland
Prof.	Duesberg	Georg	Bundeswehr University Munich	Germany
Prof.	Feng	Xinliang	TU Dresden	Germany
Prof.	Ferrari	Andrea C.	University of Cambridge	United Kingdom
Prof.	Johansson	Patrik	Chalmers University of Technology	Sweden
Prof.	Kinaret	Jari	Chalmers University of Technology	Sweden
Dr	Mattevi	Cecilia	Imperial College London	United Kingdom
Prof.	Samorì	Paolo	University of Strasbourg	France

## Venue



### **Eurostar Grand Central**

Arnulfstraße 35  
80636 München  
Germany



### **BMW Welt – Graphene Week 2022 conference**

Am Olympiapark 1  
80809 München  
Germany