

Programme EU-Korea Workshop



08 – 09 September 2018

Kursaal Congress Centre, San Sebastian, Spain

Room 10A

Scope

The 4th EU-Korea Workshop on Graphene and Related Materials will be held on 8-9 September 2018 in San Sebastian, Spain immediately before the Graphene Week 2018 conference.

The workshop aim is to be a Forum for the exchange of experiences, practices and ideas related to the current and emerging topics associated with the basic chemistry approach, materials synthesis, application development and commercialization for graphene and related 2D materials. In addition, the objective is to explore further possibilities for collaborative research opportunities between researchers in Europe and Korea.

Workshop chairs: Prof. Jari Kinaret (Sweden) and Prof. Sung-Yool Choi (Republic of Korea)

Program chairs: Prof. Paolo Samorì (France), Prof. Xinliang Feng (Germany), Prof. Sang Ouk Kim (Republic of Korea) and Prof. Hyon Suk Shin (Republic of Korea)

September 8 th	
12:00-13:00	Registration
12:30-14:00	Lunch
14:00-14:30	Opening session EU-Korea Workshop <i>Chair: Paolo Samorì, Hyeon Suk Shin</i>
14:30-15:00	Graphene Flagship <i>Jari Kinaret</i>
15:00-15:30	Introduction to Korean Graphene Society <i>Sung-Yool Choi</i>
15:30-16:00	Recent Advances in the Chemistry of Graphene and Other 2D Materials <i>Maurizio Prato</i>
16:00-16:30	Coffee break
16:30-17:00	Graphene and 2D materials for wearable and bioelectronics <i>Jong-Hyun Ahn</i>
17:00-17:30	Supramolecular engineering of 2-D materials: chemical tailoring of multifunctional foams and coatings <i>Paolo Samorì</i>

17:30-18:00	Graphene Oxide Liquid Crystals and Relevant Functional Nanostructures <i>Sang Ouk Kim</i>
18:00-18:30	Growth and Functionalization of Graphene on insulators <i>Mar Garcia Hernandez</i>
20:00-22:00	Workshop Dinner (Urepel Restaurant, Salamanca Pasealekua 3, Donostia)

September 9th	
09:00-09:30	Study of Electronic Properties of 2D Materials and Their Heterostructures <i>Suklyun Hong</i>
09:30-10:00	Organic 2D Materials: Grand Challenges and Opportunities <i>Xinliang Feng</i>
10:00-10:30	Two dimensional materials for organic devices and hydrogen evolution reaction <i>Soo Young Kim</i>
10:30-11:00	Coffee break
10:00-10:30	Understanding optical absorption and luminescence in hBN: a tool for a characterisation metrics from bulk to the monolayer <i>Annick Loiseau</i>
11:30-12:00	Interlayer Engineering in van der Waals Heterostructures for Advanced Electronics <i>Gwan Hyoung Lee</i>
12:00-12:30	Graphene opto-electronics for wearables, data communications, image sensing and plasmonics <i>Frank Koppens</i>
12:30-14:00	Lunch
14:00-14:30	2D nanomaterials for EMI shielding applications <i>Chong Min Koo</i>
14:30-15:00	Tunable bandgap and Dirac fermions in black phosphorus <i>Keun Su Kim</i>
15:00-15:30	Atomic Level Engineering of Wafer-scale van der Waals Semiconductors <i>Kibum Kang</i>
15:30-16:00	Hybrid Graphene Hydrogels: Smart Soft Materials <i>Ester Vazquez</i>
16:00-16:30	Coffee break
16:30-17:00	Structural and electronic-state phase transition in layered materials and its neuromorphic applications <i>Heejun Yang</i>
17:00-17:30	Electrical uniformity of large-area graphene <i>Peter Bøggild</i>
17:30-18:00	Photon and Energy Conversion through Atomically Thin Semiconductor Heterojunctions <i>Chul-Ho Lee</i>
18:00-18:30	Discussion on next steps and future collaborations
19:00-21:00	Workshop Dinner (Zelai Txiki Restaurant, Rodil Zeharkalea 79, San Sebastián)

List of participants

Title	Last name	First name	Institution	Country
Professor	Ahn	Jong-Hyun	Yonsei University	Korea
Professor	Bøggild	Peter	Technical University of Denmark	Denmark
Professor	Choi	Sung-Yool	KAIST	Korea
Doctor	Ciubotaru	Ana-Maria	European Science Foundation (ESF)	France
Professor	Feng	Xinliang	Technical University of Dresden	Germany
Professor	Garcia Hernandez	Mar	CSIC	Spain
Professor	Hong	Suklyun	Sejong University	Korea
Professor	Jang	Ho Won	Seoul National University	Korea
Professor	Kang	Kibum	KAIST	Korea
Professor	Kim	Keun Su	Yonsei University	Korea
Professor	Kim	Sang Ouk	KAIST	Korea
Professor	Kim	Soo Young	Chung-Ang University	Korea
Professor	Kinaret	Jari	Chalmers University of Technology	Sweden
Doctor	Koo	Chong Min	KU-KIST	Korea
Professor	Koppens	Frank	ICFO	Spain
Professor	Lee	Chul-Ho	Korea University	Korea
Professor	Lee	Gwan Hyoung	Yonsei University	Korea
Doctor	Loiseau	Annick	CNRS	France
Professor	Prato	Maurizio	University of Trieste	Italy
Professor	Samorì	Paolo	University of Strasbourg	France
Professor	Shin	Hyeon Suk	UNIST	Korea
Professor	Vazquez	Ester	Universidad de Castilla - La Mancha	Spain
Professor	Yang	Heejun	Sungkyunkwan University	Korea