

Programme EU-China Workshop

The 3rd Graphene Flagship EU-China Workshop on Graphene and related 2D materials

16 - 18 October 2019

Shanghai Institute of Microsystem and Information Technology (SIMIT)

865 Changning Rd, Shanghai, China

Workshop chairs: Hongjue Gao (China), Xiaoming Xie (China), Xinliang Feng (Germany), Jari Kinaret (Sweden)

Programme chairs: Qingkai Yu (China), Shixuan Du (China), Xinliang Feng (Germany), Francesco Bonaccorso (Italy)

October 16, 2019		
6:00 PM Welcome dinner at PentaHotel Shanghai		
October 17, 2019		
08:30 – 08:45	Registration and welcome	
08:45 – 08:55	<i>Xiaoming Xie</i>	Welcome Words and opening workshop
08:55 – 09:05	<i>Hongjun Gao</i>	Graphene and 2D Materials activities in China
09:05 – 09:15	<i>Jari Kinaret</i>	Graphene Flagship
Session 1: Materials Growth and Heterostructures <i>Chair: Xinliang Feng</i>		
09:15 – 09:40	<i>Stephan Hofmann</i>	Crystal Growth in the Flatland: Growth Mechanisms in 2D Materials and Pathways to Scalable, Controlled Device Integration
09:40 – 10:05	<i>Wencai Ren</i>	TBD
10:05 – 10:30	<i>Yangfeng Zhang</i>	Wafer Scale Syntheses and application explorations of Transitional Metal Dichalcogenides
10:30 – 11:00	Coffee Break	
Session 2: Materials Growth <i>Chair: Shixuan Du</i>		
11:00 – 11:25	<i>Qingkai Yu</i>	CVD synthesis of graphene single crystal and wafer
11:25 – 11:50	<i>Artur Ciesielski</i>	2d materials via liquid-phase exfoliation
11:50 – 12:15	<i>Zengfeng Di</i>	Graphene growth on Ge wafer
12:15 – 13:45	Lunch	

Session 3: Device and Application <i>Chair: Francesco Bonaccorso</i>		
13:45 – 14:10	<i>Wanlin Guo</i>	From interface interactions of 2D heterostructures to devices
14:10 – 14:35	<i>Cinzia Casiraghi</i>	Water-based and biocompatible 2D-inks for all printed devices
14:35 – 15:00	<i>Georg S. Duesberg</i>	Applications of Nobel Metal Dichalcogenides in Electronics
15:00 – 15:25	<i>Gianluca Fiori</i>	Two-dimensional materials and their applications in electronics
15:25– 15:55	Coffee Break	
Session 4: Device and Application <i>Chair: Qingkai Yu</i>		
15:55 – 16:20	<i>Xinliang Feng</i>	Organic 2D Materials for Electronics
16:20 – 16:45	<i>Francesco Bonaccorso</i>	Energy applications: New routes enabled by 2D materials
16:45 – 17:10	<i>Qiang Fu</i>	Operando surface and interface analysis of battery processes in model electrodes based on two-dimensional materials
17:10 – 17:35	<i>Xiaodong Zhuang</i>	2D materials synthesis and energy storage
17:35 – 17:50	Wrap-up of the first day	
17:50	Visiting Shanghai River Side with dinner	

October 18, 2019		
Session 5: Physics <i>Chair: Pingheng Tan</i>		
09:00 – 09:25	<i>Yuanbo Zhang</i>	Magnetic-field-induced quantized anomalous Hall effect in intrinsic magnetic topological insulator MnBi ₂ Te ₄
09:25 – 09:50	<i>Peter Bøggild</i>	TBD
09:50 – 10:15	<i>Qing Dai</i>	Freestanding Graphene Plasmon
10:15 – 10:40	<i>Mar García Hernandez</i>	Material Science at the Flagship Graphene
10:40 – 11:00	Coffee Break	
Session 6: Physics <i>Chair: Yuanbo Zhang</i>		
11:00 – 11:25	<i>Pingheng Tan</i>	Cross-dimensional Electron-phonon coupling in van der Waals heterostructures
11:25 – 11:50	<i>Kaihui Wu</i>	Borophene
11:50 – 12:15	<i>Yeliang Wang</i>	TBD
12:15– 13:30	Lunch	

Session 7: device and simulation <i>Chair: Peter Bogild</i>		
13:30 – 13:55	<i>Shixuan Du</i>	Computational design and physical properties of low dimensional nanostructures
13:55 – 14:20	<i>Heng Fan</i>	Quantum simulation by superconducting quantum circuits
14:20 – 14:45	<i>Jose A Garrido</i>	Graphene technologies: new tools in neuroscience
14:45 – 15:30	Discussions on future collaborations <i>Chair: Francesco Bonaccorso</i>	
15:30	<i>Xinliang Feng</i>	End of the workshop

List of participants

Title	First name	Last name	Institution	Country
Prof.	Peter	Bøggild	Technical University of Denmark	Denmark
Dr.	Francesco	Bonaccorso	Graphene Labs, Italian Institute of Technology	Italy
Prof.	Cinzia	Casiraghi	University of Manchester	United Kingdom
Dr.	Artur	Ciesielski	Université de Strasbourg & CNRS	France
Prof.	Qing	Dai	National Centre of Nanoscience and Technology	China
Prof.	Shixuan	Du	Institute of Physics, CAS	China
Prof.	Georg	Düsberg	Universität der Bundeswehr München	Germany
Prof.	Heng	Fan	Institute of Physics, CAS	China
Prof.	Xinliang	Feng	TU Dresden	Germany
Prof.	Gianluca	Fiori	University of Pisa	Italy
Prof.	Hongjun	Gao	Institute of Physics, CAS	China
Prof.	Mar	Garcia Hernandez	CSIS	Spain
Prof.	Jose	Garrido	Catalan Institute of Nanoscience and Nanotechnology (ICN2), The Barcelona Institute of Science and Technology (BIST)	Spain
Prof.	Wanglin	Guo	Nanjing University of Aeronautics and Astronautics	China
Prof.	Stefan	Hofmann	Department of Engineering, Cambridge University	United Kingdom
Prof.	Jari	Kinaret	Chalmers University of technology	Sweden
Prof.	Wencai	Ren	Institute of Metal Research, CAS	China
Prof.	Pingheng	Tan	Institute of Semiconductors, CAS	China
Prof.	Yeliang	Wang	Institute of Physics, CAS	China
Prof.	Kaihui	Wu	Institute of Physics, CAS	China
Prof.	Xiaoming	Xie	Shanghai Institute of Microsystem and Information Technology	China
Prof.	Yanfeng	Zhang	Peking University	China
Prof.	Yuanbo	Zhang	Fudan University	China
Prof.	Xiaodong	Zhuang	Shanghai Jiaotong University	China

Venue

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China

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