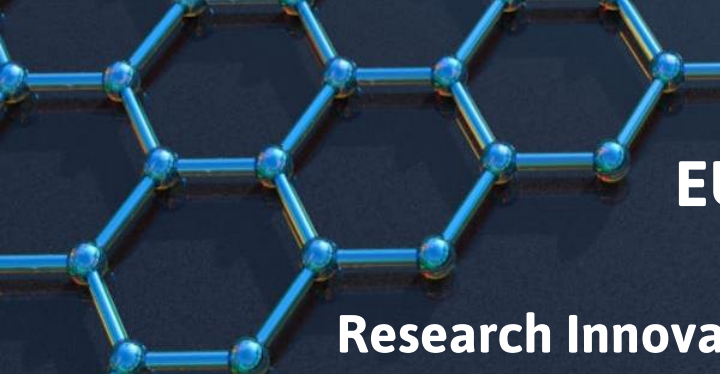


# EU GRAPHENE FLAGSHIP - SINGAPORE WORKSHOP

## Research Innovation in 2D materials & beyond

### Programme Overview: Day 1 (27<sup>th</sup> March)

Time	Event /Theme	Speaker	Subject/Title
9:00 am	Opening remarks	I-FIM and EU Graphene	
<b>Session Chair : Stephan Roche</b> - Catalan Institute of Nanoscience and Nanotechnology (ICN2)			
9:15 - 9:45 am	Plenary 1	<b>Jari Kinaret</b> Chalmers University of Technology	Graphene Flagship: a look at its ten years' voyage and the way ahead
9:45 - 10:15 am	Plenary 2	<b>Barbaros Ozyilmaz</b> Institute for Functional Intelligent Materials, NUS	Monolayer Amorphous Carbon and its Applications
10:15 - 10:35 am	<b>Scientific Session 1: Health &amp; Medicine</b>	<b>Liu Bin</b> Institute for Functional Intelligent Materials, NUS	Artificial skin for wound healing
10:35 - 10:55 am		<b>Laura Ballerini</b> International School for Advanced Studies (SISSA)	2D materials to modulate brain networks and synapses
<b>11:00 - 11:30 am COFFEE BREAK</b>			
<b>Session Chair : Maciej Koperski</b> - Institute for Functional Intelligent Materials, NUS			
11:30 - 11:50 am	<b>Scientific Session 2: Industrial Production &amp; Applications of 2DM</b>	<b>Andrea C. Ferrari</b> Cambridge University	Layered Materials for Optoelectronics and Quantum Technologies
11:50 - 12:10 pm		<b>Ken Teo</b> AIXTRON	Wafer scale deposition of Graphene and 2D materials and their integration into devices
12:10 - 12:30 pm		<b>Andrey Uztyuzhanin</b> Institute for Functional Intelligent Materials, NUS	
<b>12:30 - 2:00 pm LUNCH</b>			
<b>Session Chair : Aleksandr Rodin</b> - Centre for Advanced 2D Materials, NUS			
2:00 - 2:20 pm	<b>Scientific Session 3: Fundamental of 2DM</b>	<b>Vladimir Falko</b> University of Manchester, UK	Twistronics of 2D transition metal dichalcogenides
2:20 - 2:40 pm		<b>Kedar Hippalgaonkar</b> Institute for Functional Intelligent Materials, NUS	Thermoelectric Physics in 2D Materials – Discrete Density of States and Kondo Resonance
2:40 - 3:00 pm		<b>Stephan Roche</b> ICN2	Two-dimensional materials for spintronics
3:00 - 3:20 pm		<b>Maxim Trushin</b> Institute for Functional Intelligent Materials, NUS	Two-dimensional water: How does it flow?"
3:20 - 3:40 pm		<b>Alexey Berdyugin</b> Institute for Functional Intelligent Materials, NUS	Giant Magnetoresistance of Dirac plasma in high-mobility graphene
3:40 - 4:00 pm		<b>Justin Song</b> School of Physical & Mathematical Sciences, NTU	Quantum non-reciprocity in moiré materials



# EU GRAPHENE FLAGSHIP - SINGAPORE WORKSHOP

## Research Innovation in 2D materials & beyond

### Programme Overview: Day 2 (28<sup>th</sup> March)

Time	Event /Theme	Speaker	Subject/Title
<b>Session Chair : Alexandra Ines Sarabando de Carvalho</b> - Institute for Functional Intelligent Materials, NUS			
9:00 - 9:20 am	<b>Scientific Session 4: Industrial Applications</b>	<b>Vincent Bouchiat</b> GRAPHEAL	Graphene-on-polymer for sensors & healthcare applications
9:20 - 9:40 am		<b>Juan Alfredo Guevara Carrio</b> Centre for Advanced 2D Materials, NUS	The use of graphene membranes for hydrogen separation
9:40 - 10:00 am		<b>Francesco Bonaccorso</b> BEDIMENSIONALE	Industrial production of 2D materials for energy
10:00 - 10:20 am		<b>Vincenzo Palermo</b> CNR – National Research Council of Italy	Laser patterning of 2DM-polymer composites for automotive applications: an example of transnational technology within the Graphene Flagship.
10:20 – 10:40 am		<b>Ricardo Keitel</b> Centre for Advanced 2D Materials, NUS	2D electrolytes and its applications
<b>10:40 - 11:10 am COFFEE BREAK</b>			
<b>Session Chair : Johan Ek Weis</b> - CIT, Sweden			
11:10 - 11:30 am	<b>Scientific Session 5: Medical applications and new horizons</b>	<b>Guillermo Bazan</b> Institute for Functional Intelligent Materials, NUS	Living Bioelectrochemical Composites
11:30 - 11:50 am		<b>José-Antonio Garrido</b> ICN2	Graphene technology for neural interfaces
11:50 - 12:10 pm		<b>Daria Andreeva</b> Institute for Functional Intelligent Materials, NUS	2D composites for biointerfaces.
12:10 - 12:30 pm		<b>Kostas Kostarelos</b> University of Manchester, UK	Clinical Translation Pathway of Advanced Materials: The Graphene Paradigm
12:30 – 12:50 pm		<b>Liu Zheng</b> Institute for Functional Intelligent Materials, NUS	Synthesis of 2D materials via CVD and CVT methods for electronic and optoelectronics
12:50 pm	<b>Concluding Remarks</b>		