

TENTATIVE PROGRAM (as of 15/02/2019)

K: Keynote lecture / I: Invited Lecture / O: Oral contribution

Thursday (14/02/2019)

08:00 – 08:50: Registration

08:50 – 09:00: Opening Ceremony- Welcome and Introduction.

09:00 – 09:30: Tomas Palacios (MIT, USA)	К
The Graphene Revolution: From electronics to synthetic cells	
09:30 – 09:45: Egon Pavlica (University of Nova Gorica, Slovenia)	0
Characterization of chitosan-graphene oxide membrane and its application in ethanol fuel cells	
09:45 – 10:00: Argyrios Varonides (University of Scranton, USA)	0
Enhanced performance of a Graphene/n-GaAs Schottky Barrier Solar Cell by means of an AlGaAs/GaAs	s thin multi-
quantum well layer	

10:00–10:45: Coffee Break / Poster Session & Exhibition

10:45 – 11:15: Arben Merkoci (ICREA-ICN2, Spain)	к
Graphene-based biosensors for diagnostics	
11:15 – 11:35: Li-Xian Sun (Guilin Univ. of Electronic Technology, China)	I
Graphene composites for energy storage and sensors	
11:35 – 11:55: Abhay Narayan Pasupathy (Columbia University, USA)	I
Spectroscopy of Twisted Bilayer Graphene	
11:55 – 12:10: Elena del Corro (Instituto Catalán de Nanociencia y Nanotecnología, Spain)	0
Differential ion adsorption in graphene electrodes quantified by in situ Raman spectroscopy	
12:10 – 12:25: Keith Paton (National Physical Laboratory, UK)	0
Terahertz time-domain spectroscopy as novel metrology tool for liquid-phase exfoliated few-layer g	raphene

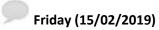
12:25 – 14:00: Cocktail Lunch / Poster Session & Exhibition

14:00 – 14:30: Philip Kim (Harvard University, USA)	К
Atomic reconstruction at van der Waals interface in twisted 2D Materials	
14:30 – 15:00: Eva Andrei (The State University of New Jersey, USA)	К
Poke, twist, buckle: strategies for band structure engineering in 2D materials	
15:00 – 15:30: Yury Gogotsi (Drexel University, USA)	К
MXene, Graphene or Their Hybrid? A Guide to Finding the Best Material for the Job	
15:30 – 15:50: Xi Ling (Boston University, USA)	I
Chemical vapor deposition of MXenes and their characterization	
15:50 – 16:05: Ángel Morales-García (University of Barcelona, Spain)	0
CO2 chemical trapping on two-dimensional MXenes	

16:05–16:45: Coffee Break / Poster Session & Exhibition

16:45 – 17:15: Humberto Terrones (Rensselaer Polytechnic Institute (RPI), USA)	К
The Next Challenge for Graphene	

17:15 – 17:30: Morten Gjerding (Technical University of Denmark, Denmark)	0
The Computational 2D Materials Database: High-throughput modeling and discovery of atomically the	hin crystals
17:30 – 17:45: Eduardo Marino (UFRJ, Brazil)	0
Quantum-electrodynamical approach to the exciton spectrum in Transition-Metal Dichalcogenides	
17:45–18:00: Maicol Ochoa (National Institute of Standards and Technology - UMD, USA)	0
Generalized Voigt broadening in Graphene-based electromechanical nanosensors	
18:00 – 18:15: Damien Tristant (Rensselaer Polytechnic Institute, USA)	0
Vibrational Analysis Beyond the Harmonic Regime in Few-Layer Black Phosphorus	
18:15 – 18:30: Euyheon Hwang (Sungkyunkwan University, South Korea)	0
Plasmon-pole approximation for many-body effects in graphene	



Parallel Session I

09:00 – 09:20 : Katayun Barmak (Columbia University, USA)	I
Synthesis and Characterization of Transition Metal Dichalcogenides	
09:20 – 09:40: Avetik Harutyunyan (Honda Research institute USA Inc., USA)	I
Graphene: Growth Peculiarities on Liquid Substrate and Some Unique Applications	
09:40 – 09:55: Antonio Esau Del Rio Castillo (Istituto Italiano di Tecnologia, Italy)	0
Wet jet mil exfoliation: High-quality 2D crystals at the fingertips for industrial applications	
09:55 – 10:10: Benjamin Huet (Penn State University, USA)	0
Chemical Vapor Synthesis of Ultra Flat Crack-Free Highly-Crystalline Single-Layer Graphene on Cu sul	ostrates
10:10 – 10:25: Micah Green (Texas A&M University, USA)	0
Process Safety and Scale-up of Graphene Oxide Synthesis and Storage	
10:25 – 10:40: Neeraj Mishra (Istituto Italiano di Tecnologia , Italy)	0
Going beyond copper	

10:40 – 11:15: Coffee Break / Poster Session & Exhibition

11:15 – 11:35: Won Jong Yoo (Sungkyunkwan University, Korea)	Ι
Recent Advances in 2D Materials and Devices Processing	
11:35 – 11:50: Min Sup Choi (Columbia University, USA)	0
Transferred via contacts for high quality 2D and hetero-structured devices	
11:50 – 12:05: Bjarke Jessen (Technical University of Denmark, Denmark)	0
Lithographic band structure engineering of graphene	
12:05 – 12:20: Nikolai Kalugin (New Mexico Tech, USA)	0
Covalent functionalization of graphene for chromatographic separation of chiral pharmaceuticals	
12:20 – 12:35: Yin-Ting Yeh (The Pennsylvania State University, USA)	0
Light-Emitting Transition Metal Dichalcogenide Monolayers under Cellular Digestion	
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Parallel Session II

09:00 – 09:20 : Na Li (milliporesigma, USA)	I
Enabling Cutting-Edge Research through Innovative Materials	
09:20 – 09:35: Gregory Lopinski (National Research Council , Canada)	0
Characterization of solution processable graphene for electronic applications	
09:35 – 09:50: Albert Redo-Sanchez (das-Nano, Spain)	0
Non-contact and non-destructive characterization of mobility, carrier density, and conductivity of	of graphene
09:50 – 10:05: Joachim Dahl Thomsen (Technical University of Denmark, Denmark)	0
Anisotropic Oxidation and Unexpected Stability in Suspended Graphene	
10:05 – 10:20: Andrew Pollard (National Physical Laboratory (NPL), UK)	0
Rapid characterisation of the lateral size of commercially-produced graphene and graphene oxic	le flakes
10:20 – 10:35: Elizabeth Legge (National Physical Laboratory, UK)	0
Physicochemical Characterisation of Reduced Graphene Oxide for Conductive Thin Films	

11:15 – 11:35: Liangbo Liang (Oak Ridge National Laboratory (ORNL), USA)	I
PdSe2: a Pentagonal Layered Material Bridging the Gap Between 2D and 3D Materials	
11:35 – 11:55: Jun Zhu (The Pennsylvania State University, USA)	I
Topological Kink States and Valleytronics in Bilayer Graphene	
11:55 – 12:15: Yung Woo Park (Seoul National University, Korea)	I
Uniform doping of graphene close to the Dirac point by polymer-assisted assembly of molecular dopar	nts
12:15 – 12:30: Kristen Kaasbjerg (Center for Nanostructured Graphene / Technical University of	0
Denmark, Denmark)	
Unprecedented transport properties of monolayer TMD devices: Experiment and theory	
Parallel Session - NEMA	
09:00 – 09:20: Mike Leibowitz (NEMA, USA)	
Graphene Standards – Building a Bigger Business	
09:20 – 09:40: Norbert Fabricius (KIT, Germany)	
Graphene Flagship: Standardization and Validation	-
09:40 – 09:55: Jan Obrzut (NIST, USA)	0
Non-contact measurement of graphene conductivity using a microwave cavity; IEC standard 62607-6-4	4 and its
benefit to the graphene industry	
09:55 – 10:10: John Monica (Protorae Law, USA)	0
Graphene Environmental, Health, and Safety Considerations	
10:10 – 10:25: Speaker to be defined O	
10:25 – 10:40: Discussion	
10:40 – 11:15: Coffee Break / Poster Session & Exhibition	
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Parallel Session III	
11:15 – 11:35: Murni Ali (NanoMalaysia Berhad, Malaysia)	1
National Graphene Action Plan: Progress and commercialisation opportunities	
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Gateless carrier density tunability in epitaxial graphene devices functionalized with chromium tricarbonyl 17:45 – 18:15: **Robert Wallace** (The University of Texas at Dallas, USA) K 2D Materials for Nanoelectronics: Prospects and Materials Integration Challenges

18:15: Closing and GrapheneforUS2020 announcement