



Keynote (Plenary) – 40 minutes

Invited (Plenary / Parallel workshops & Industrial Forum) - 30 minutes

Oral – 15 minutes

## TENTATIVE PROGRAM (as of 14/10/2016)

Tuesday October 18, 2016		
08:00-09:00	<b>Registration</b>	
09:00-09:20	<b>Opening Ceremony</b>	
09:20-10:00	<b>Robert Roelver</b> (Robert Bosch GmbH Corporate Research, Germany ) Graphene for MEMS sensor products: Chances and challenges	K
10:00-11:00	<b>Coffee Break &amp; Poster session</b>	
11:00-11:30	<b>Francesco Bonaccorso</b> (IIT Graphene Labs, Italy) Large scale production of 2D-crystals-based inks and their application for energy and (opto)electronics	I
11:30-11:45	<b>Wenwen Liu</b> (University of Waterloo, Canada) Construction of novel high-performance Li-ion hybrid supercapacitors based on 3D graphene composites	O
11:45-12:15	<b>François Leonard</b> (Sandia National Labs, USA) Optoelectronics in 1D and 2D Materials	I
12:15-13:15	<b>Lunch</b>	
13:15-14:00	<b>Poster Session</b>	
14:00-14:30	<b>Vincent Meunier</b> (Rensselaer Polytechnic Institute, USA) Modeling vertical and lateral electron transport across heterostructures of 1D and 2D materials	I
14:30-14:45	<b>Igor Bondarev</b> (North Carolina Central University, USA) Monopolar charge fluctuation induced forces in 2D nanostructures	O
14:45-15:00	<b>Catherine Journet</b> (Université Lyon 1, France) Large and pure h-BN nanosheets obtained by a unique combination of PDCs route with SPS process	O
15:00-15:15	<b>Pascal Pochet</b> (CEA INAC, France) Dislocations in 2D: blessing or curse?	O
15:15-15:30	<b>Damien Hanlon</b> (Trinity College Dublin , Ireland) Characterisation of Liquid-Exfoliated Black Phosphorus Nanosheets	O
15:30-16:30	<b>Coffee Break &amp; Poster session</b>	
16:30-17:10	<b>Jean-Luc Meunier</b> (McGill University, Canada) A thermal plasma route for the generation and functionalization of highly crystalline graphene structures and stable nanofluids	K
17:10-17:25	<b>Mohamed Siaj</b> (Université de Québec à Montréal (UQAM), Canada) New Insights into Graphene Oxide Chemistry	O
17:25-17:55	<b>Emanuele Orgiu</b> (Université de Strasbourg, France & INRS-CEMT, Canada) Supramolecular Approaches to Charge Transport Physics in Hybrid van der Waals Heterostructures	I
17:55-18:10	<b>Randolph Elmquist</b> (Natl. Inst. Standards & Technology, USA) Epitaxial graphene homogeneity and quantum Hall effect in millimeter-scale devices	O
18:10-18:25	<b>Philippe Godignon</b> (CNM Barcelona, Spain) High Electron Mobility and Low-Field Quantum Hall Effect in Graphene grown on SiC substrates ready for back gating	O
18:25-18:40	<b>Navjot Kaur</b> (Indian Institute of Technology Roorkee, India) Effect of cobalt doping on the magnetic properties of graphene nanoribbons	O
19:00	<b>Cocktail Networking Dinner (at Centre Mont Royal - level 3)</b>	

<b>Wednesday October 19, 2016 – Industrial Forum</b>		
08:30-09:00	<b>Max Lemme</b> (University of Siegen, Germany) Graphene Device and Process Integration - Challenges ahead!	I
09:00-09:30	<b>Daniel Neumaier</b> (AMO, Germany) Graphene based electro-optical modulators and phase shifters	I
09:30-10:00	<b>Aiping Yu</b> (University of Waterloo, Canada) Advanced Li-Ion Hybrid Supercapacitors Based on 3D Graphene- Foam Composites	I
10:00-11:00	<b>Coffee Break &amp; Poster session</b>	
11:00-11:40	<b>James Hone</b> (Columbia University, USA) Graphene devices and phenomena in the ultraclean limit	K
11:40-12:05	<b>Antonio Correia</b> (Phantoms Foundation, Spain) Graphene and 2D Materials” EUREKA Cluster: Fostering European Competitiveness	I
12:05-12:30	<b>Terrance Barkan</b> (The Graphene Council, USA) 2016 Global Graphene Survey Results - What is the current and future state of the graphene industry?	I
12:30-13:30	<b>Lunch</b>	
13:30-14:00	<b>Poster Session</b>	
<b>Energy – Parallel Workshop</b>		
14:00-14:30	<b>Kuan-Tsae Huang</b> (AzTrong Inc, USA/Taiwan) Graphene Li-Ion Battery - How it will shape the Electrical Vehicles of tomorrow	I
14:30-15:00	<b>Ahmed Elmarakbi</b> (University of Sunderland, UK) Hierarchical Graphene-based Polymer Composites for Automotive Applications: Challenges in the Way Forward	I
15:00-15:30	<b>Gui-Ping Dai</b> (North Carolina Central University, USA & Chaowei Power Ltd, China) Triangle-Shaped Graphene Domains by LP-CVD and Update of Graphene Application in Motive Power Battery	I
15:30-16:30	<b>Coffee Break &amp; Poster session</b>	
16:30-17:00	<b>Rune Wendelbo</b> (Abalonyx, Norway) Graphene and graphene derivatives for energy applications	I
17:00-17:30	<b>Xiao Li</b> (Southeast University, China) Graphene based hybrid structures for solar-driven water splitting	I
17:30-17:45	<b>Yangshuai Liu</b> (University of Waterloo, Canada) Fabrication of Graphene-Based Composites for Wearable Supercapacitors	O
17:45-18:00	<b>Lia Kouchachvili</b> (Natural Resources Canada, Canada) Ag/Biochar Composite for Supercapacitor Electrodes	O
<b>Applications – Parallel Workshop</b>		
14:00-14:30	<b>Ray Gibbs</b> (Haydale, UK) Establishing near term commercial applications for Graphene	I
14:30-15:00	<b>Shintaro Sato</b> (Fujitsu Laboratories Ltd., Japan ) Application of graphene to electronic devices	I
15:00-15:30	<b>Helge Weman</b> (NTNU & CrayoNano, Norway) Epitaxial growth of semiconductor nanostructures on graphene: A solution for UV LEDs	I
15:30-16:30	<b>Coffee Break &amp; Posters session</b>	
16:30-17:00	<b>Florina Truica-Marasescu</b> (Alcereco Inc, Canada) Solvent effects control of the wettability behaviour of graphene thin films	I
17:00-17:15	<b>Stephanie Hernandez Santos</b> (Abalonyx AS, Norway) Graphene Oxide for Removal of Heavy Metals from Tunnel Wash Water	O
17:15-17:30	<b>Toshio Hyodo</b> (KEK, Japan) Application of Total-reflection high-energy positron diffraction (TRHEPD) to the analysis of the graphene structures	O
<b>Production &amp; Standardization– Parallel Workshop</b>		
14:00-14:30	<b>Seungmin Cho</b> (Hanwha Techwin, Korea) Fabrication and Characterization of Large Area Graphene	I
14:30-14:45	<b>Marcus Klein</b> (SURAGUS GmbH, Germany) Electrical Characterization of Large Area Graphene Layers	O
14:45-15:00	<b>Gregory Lopinski</b> (National Research Council, Canada) Characterization of solution processable graphene	O
15:00-15:15	<b>Pierre Levesque</b> (Université de Montréal, Canada) A new knob in graphene CVD growth	O
15:15-15:30	<b>Huilin Chang</b> (National Chiao Tung University, Taiwan) Selective Nano- Structured Material Growth in Nanoelectronic Device	O
15:30-16:30	<b>Coffee Break &amp; Posters session</b>	

16:30-17:00	<b>Karl S. Coleman</b> (Durham University & Applied Graphene Materials, UK) Graphene Production and the Importance of Dispersion in Graphene Applications	I
17:00-17:30	<b>Soroush Nazarpour</b> (NanoXplore, Canada) The wonderful world of Graphene - From lab to market	I
17:30-17:45	<b>Minh Dau Tuan</b> (INAC-Spintec, CEA, Grenoble, France) Van der Waals epitaxy of monolayer MoSe <sub>2</sub> on sapphire and on epitaxial graphene/SiC	O

Thursday October 20, 2016		
Parallel Workshop 1 - Materials & Devices Characterization		
08:30-09:00	<b>Jean-Christophe Charlier</b> (Université Catholique de Louvain, Belgium) Ab initio modeling of novel 2D materials	I
09:00-09:15	<b>Neerav Kharche</b> (Rensselaer Polytechnic Institute, USA) Substrate Screening Induced Renormalization of Excited-States in 2D Materials	O
09:15-09:30	<b>Pedro Venezuela</b> (Universidade Federal Fluminense, Brazil) Second-Order Overtone and Combination Raman Modes in Bilayer Graphene: First-Principles Calculations	O
09:30-09:45	<b>Argyrios Varonides</b> (University of Scranton, USA) Landauer formalism modeling for total thermionic current in reverse-biased Ideal Graphene/n-Si Schottky junctions	O
09:45-10:00	<b>Arash Akbari-Sharbat</b> (Université de Sherbrooke, Canada) Two-point Green's function correlations mediated by localized electronic edge modes in zigzag graphene nanoribbons	O
10:00-10:15	<b>Han Seul Kim</b> (Korea Advanced Institute of Science and Technology, Korea) Development of a non-equilibrium electronic structure calculation method based on local constrained density functional theory: Applications to vertically-stacked 2D heterostructures	O
10:15-10:45	<b>Stephan Roche</b> (ICREA-ICN2, Spain) Could Graphene and 2D Materials revolutionize Spintronics? Current challenges & opportunities	I
<b>10:45-11:15 Coffee Break &amp; Poster session</b>		
11:15-11:45	<b>Giovanni Fanchini</b> (The University of Western Ontario, Canada) Graphene thin films and their interaction with metallic nanoparticles: materials, characterization and applications	I
11:45-12:15	<b>Tobin Filleter</b> (University of Toronto, Canada) Mechanical Behavior of Graphene Oxide	I
12:15-12:45	<b>Oussama Moutanabbir</b> (Ecole polytechnique de montreal, Canada) Stability and Epitaxial Growth of Group V 2D Materials: Theory and in situ Observations	I
12:45-13:00	<b>Zhongyang Wang</b> (Shanghai Advanced Research Institute, China) Luminescence Mechanism of the doped Graphene quantum dots	O
13:00-13:15	<b>Jens Kroeger</b> (Raymor/Nanolntegriss, Canada) Continuous gas-phase plasma process to produce few-layer crumpled graphene	O
Parallel Workshop 2 - Chemistry, Biosensors & Energy		
08:30-09:00	<b>Yong-Hoon Kim</b> (Korea Advanced Institute of Science and Technology (KAIST)) Computational Study of Graphene-based Interfaces for the Realization of Next-generation Energy and Electronic Devices	I
09:00-09:30	<b>Pedro Gomez Romero</b> (ICN2, CSIC, Spain) Graphene Electroactive Nanofluids for Energy Storage	I
09:30-10:00	<b>Jean-François Morin</b> (Université Laval, Canada) Photochemical Bottom-up Synthesis of Nanographenes and Graphene Nanoribbons	I
10:00-10:15	<b>Kaiwen Hu</b> (McGill University, Canada) Preparation of ultra-light, "shell-less" graphene aerogel via simple pre-reduction method	O
10:15-10:30	<b>Francesco Presel</b> (University of Trieste, Italy) Interaction of small molecules with epitaxial graphene	O
10:30-10:45	<b>Farzaneh Mahvash</b> (McGill- UQAM, Canada) Charge transport and corrosion inhibiting properties of monolayer hexagonal boron nitride grown by chemical vapor deposition	O
<b>10:45-11:15 Coffee Break &amp; Poster session</b>		

11:15-11:30	<b>Rui Campos</b> (International Iberian Nanotechnology Laboratory - INL, Portugal) In-situ growth and functionalization of graphene for biosensing applications	O
11:30-11:45	<b>Jasneet Kaur</b> (University of Naples Federico II, Italy) Green Route for Production and Biofunctionalization of Transition Metal Dichalcogenides based nanosheets	O
11:45-12:00	<b>Antonio Rossi</b> (Scuola Normale Superiore, Italy) Scalable synthesis of WS <sub>2</sub> on graphene and h-BN: an all-2D platform for light-matter transduction	O
12:00-12:15	<b>Dhan Cardinal</b> (Polytechnique de Montreal, Canada) Formation of Graphene Bilayers in CVD Growth	O
12:15-12:30	<b>John Boland</b> (Trinity College Dublin, Ireland) Liquid Phase Exfoliation of Germanium Monosulfide	O
12:30-12:45	<b>Kyle DiCamillo</b> (Georgetown University, USA) Automated Mechanical Exfoliation of Few Layer MoS <sub>2</sub> and MoTe <sub>2</sub>	O
12:45-13:00	<b>Emanuele Lago</b> (Istituto Italiano di Tecnologia - IIT, Italy) Effects of 2D crystals addition on the physical properties of polycarbonate-based composite	O
13:00-13:15	<b>Ricky Tjandra</b> (University of Waterloo, Canada) Enhanced Binding of Reduced Graphene Oxide to Polyurethane Sponge for Oil Absorption	O
<b>Parallel Workshop 3 - Electronic Devices</b>		
08:30-09:00	<b>Vincent Bouchiat</b> (Institut Néel – CNRS, France) Active hybrid devices based on physisorbed elements on Graphene: from tunable superconducting transitions to neural network bio-applications	I
09:00-09:30	<b>Marc M. Dignam</b> (Queen's University, Canada) Third Harmonic Terahertz Generation in Monolayer and Bilayer Graphene	I
09:30-09:45	<b>Sana Mzali</b> (Thales Research & Technology, France) Statistical study of graphene field effect transistors (GFETs) performance	O
09:45-10:00	<b>Ibrahim Fakih</b> (McGill University, Canada) Improved ion sensing graphene field effect transistors using ultra-thin parylene encapsulation	O
10:00-10:15	<b>Yu-Shu Wu</b> (National Tsing-Hua University, Taiwan) Valley FETs in graphene	O
10:15-10:45	<b>Hong Guo</b> (McGill University, Canada)	I
<b>10:45-11:15 Coffee Break &amp; Poster session</b>		
11:15-11:45	<b>Frederic Fossard</b> (ONERA/CNRS, France) Towards 2D and 1D heterostructures for optoelectronics	I
11:45-12:00	<b>Denis Gagnon</b> (INRS, Canada) Analogy between graphene light-matter interactions and strong field quantum electrodynamics	O
12:00-12:30	<b>Pawel Hawrylak</b> (University of Ottawa, Canada) Photonics, electronics and spintronics with graphene quantum dots	I
12:30-12:45	<b>Andrea Latgé</b> (Universidade Federal Fluminense, Brazil) Fold-assisted transport of graphene systems	O
12:45-13:00	<b>Jae Young Park</b> (Yonsei University, Korea) Radio-frequency transmission of few-layer WSe <sub>2</sub> nanosheet Coplanar waveguide	O
13:00-13:15	<b>Sun Jun Kim</b> (Yonsei university, Korea) Radio frequency transmission characteristics of graphene under low temperature	O
13:15-13:30	<b>Mauro Ferreira</b> (Trinity College Dublin, Ireland) The wagon-wheel effect in graphene-based materials: Can apparently innocuous oscillations impact so many physical properties?	O
<b>13:30-14:30 Lunch</b>		
14:30-14:45	<b>Saifeng Zhang</b> (Shanghai Institute of Fine Mechanics and Optics, Chinese Academy of Sciences, China) Nonlinear absorption in two dimensional materials	O
14:45-15:00	<b>Frederic Joucken</b> (Lawrence Berkeley Lab, USA) Correspondence between STM and photoemission results on N-doped graphene	O
15:00-15:15	<b>Abdel El Fatimy</b> (Georgetown University, USA) Highly sensitive hot electron bolometer based on graphene quantum dots	O

15:15-15:55	<b>Mark C. Hersam</b> (Northwestern University, USA) Solution-Processed Graphene and Related 2D Nanomaterial Inks	K
15:55-16:35	<b>Mauricio Terrones</b> (The Pennsylvania State University, USA) Defect Engineering in 2-Dimensional Materials: Graphene, Doped-Graphene and Beyond	K
16:35	<b>Concluding remarks</b>	