



TENTATIVE PROGRAM (as of 09/03/2018)

P: Plenary lecture / K: Keynote lecture / I: Invited lecture / O: Oral contribution



TUESDAY (13/03/2018)

08:00 – 09:00: *Registration*

09:00 – 09:15: *Imaginenano2018 Opening Ceremony- Welcome and Introduction.*

Imaginenano2018 Plenary Session

09:15 – 10:00: Pedro Miguel Echenique (DIPC, Spain) P

Surface Attophysics

10:00 – 10:45: Avelino Corma (ITQ – CSIC / UPV, Spain) P

Nanopores such as molecular sieves, catalysts and containers

10:45– 11:30: *Coffee Break / Poster Session & Exhibition*

graphIn2018 tentative program

11:30 – 12:00: Antonio Castro-Neto (NUS, Singapore) K

2D Materials: science and technology

12:00 – 12:30: Xinliang Feng (TU-Dresden, Germany) K

Organic 2D Materials: Grand Challenges and Opportunities

12:30 – 12:50: Stijn Goossens (ICFO, Spain) I

Graphene as enabler for broadband image sensors integrated with CMOS and flexible platforms

12:50 – 13:05: Maria Paiva (University of Minho, Portugal) O

Flexible conductive adhesives based on PDMS

13:05 – 14:30: *Lunch*

14:30 – 15:00: Francesco Bonaccorso (IIT, Italy) K

Scaling up prospective for the production of graphene and other 2D crystals

15:00 – 15:30: Paolo Bondavalli (Thales Research & Technology, France) K

Graphene and related materials deposition by spray-gun deposition method. A versatile technique for a large panel of applications

15:30 – 16:00: Max Lemme (AMO GmbH, Germany) K

Towards Wafer Scale Integration of CVD Graphene and 2D Materials

16:00 – 16:15: Benjamin Huet (Université Catholique de Louvain, Belgium) O

Controlling the size, number of layers and planarity of CVD graphene single-crystals

16:15– 17:15: *Coffee Break / Poster Session & Exhibition*

17:15 – 17:30: Lucia Delogu (University of Trieste, Italy) O

Transcriptomic and single cell interaction properties of graphene in human primary immune cells

- 17:30 – 17:45: Alexander Botin (Institute of Chemical Physics, Russian Acad. of Sciences, Russia) O
PolyGraphene - Perspective Enterosorbent for Medical Toxicology. Preclinical Tests and Safety Assessment
- 17:45 – 18:00: Alicia de Andrés (CSIC, Spain) O
Biosensing and imaging with graphene-based platforms
- 18:00 – 18:15: Jérôme Borme (INL-International Iberian Nanotechnology Laboratory, Portugal) O
Lab-on-a-chip DNA sensor based on graphene electrolyte-gated field-effect transistors
- 18:15 – 18:30: Marina Ramal Sánchez (University of Teramo, Italy) O
Graphene oxide induces sperm release from bovine oviductal epithelial cells by modifying sperm membrane fluidity and binding proteins expression



WEDNESDAY (14/03/2018)

Parallel Session Characterization

- 09:00 – 09:20: Peter Boggild (Technical University of Denmark, Denmark) I
Non-contact conductivity mapping of graphene: setting new standards
- 09:20 – 09:40: Albert Redo-Sanchez (das Nano S.L., Spain) I
Onyx: A new Standard for 2D materials characterization
- 09:40 – 10:00: Anil O. Yalcin (Thermo Fisher Scientific, The Netherlands) I
Damage free imaging of graphene: low kV, narrow energy spread and iDPC STEM
- 10:00 – 10:15: Philip Schaefer (neaspac GmbH, Germany) O
Infrared nano-imaging and spectroscopy on graphene using scattering-type SNOM
- 10:15 – 10:30: Nicolas F. Martinez (Concept Scientific Instruments, Spain) O
Resistance and surface potential characterization of 2-d materials with atomic force microscopy
- 10:30 – 10:45: Holger Graef (Laboratoire Pierre Aigrain, France) O
Dirac Fermion Reflector as a Scattering Length Meter
- 10:45 – 11:00: Daena Madhi (DTU Fotonik, Denmark) O
Simulation and experimental investigation of 2D materials with far and near-field THz spectroscopy

11:00– 11:30: Coffee Break / Poster Session & Exhibition

Parallel Session Standardization & Production

- 11:30 – 11:50: Felicien Schopfer (LNE, France) I
Graphene for quantum electrical metrology and the revised International System of units SI
- 11:50 – 12:10: Andrew J. Pollard (National Physical Laboratory, UK) I
Standardisation of terminology and measurement for graphene and related 2D materials
- 12:10 – 12:25: Félix Raso Alonso (Centro Español de Metrología, Spain) O
Towards the Standardization of Graphene: The Project GRACE
- 12:25 – 12:40: David Mackenzie (DTU Nanotech, Denmark) O
Quality Assessment of 2D Materials: continuity, uniformity and accuracy of mobility measurements
- 12:40 – 12:55: Siamak Eqtesadi (Abalonyx, Norway) O
Production of Nitrogen Doped Graphene Oxide

12:55 – 14:30: Lunch (offered by the organization)

Parallel Session Applications

- 09:00 – 09:20: Amaia Zurutuza (Graphenea, Spain) I
Towards graphene applications in electronics
- 09:20 – 09:35: Valentino Libero Pio Guerra (Heyrovsky Institute of Physical Chemistry of the Czech Academy of Sciences, v.v.i., Czech Republic) O
Graphene as substrate for selective self-assembly of 2-D materials for optoelectronic applications
- 09:35 – 09:50: Neetu Prasad (Indian Institute of Technology Bombay, India) O
Bandgap tailoring of graphene oxide by electric field induced reduction: Applications to photonic micro devices

09:50 – 10:05: Alina Lyuleeva (Technical University of Munich, Germany)	O
<i>Functionalized and Oxidized Silicon Nanosheets for Sensors and Optoelectronics</i>	
10:05 – 10:20: Ibrahim Fakih (McGill University, Canada)	O
<i>pH Measurement with Large-Area Graphene Field-Effect Transistors at the Quantum Capacitance Limit</i>	
10:20 – 10:35: Juan Antonio Delgado Notario (University of Salamanca, Spain)	O
<i>Asymmetric dual grating gate graphene FETs for direct detection of Terahertz radiation</i>	
10:35 – 10:50: Sathya Narayanan Mathivanan (City, University of London, UK)	O
<i>Bilayer graphene electrooptic modulator with rib dielectric enhancing TE mode confinement</i>	
10:50 – 11:05: Aida Hichri (Faculté des Sciences de Bizerte, Tunisia)	O
<i>Binding energies of exciton complexes in two-dimensional transition metal dichalcogenide</i>	
 <i>11:05– 11:30: Coffee Break / Poster Session & Exhibition</i>	
 11:30 – 11:50: Julio Gomez (Avanzare, Spain)	I
<i>Relevance of an adequate of selection of the graphene materials and processing conditions in the preparation of GRM composites</i>	
11:50 – 12:10: Cesar Merino Sanchez (Grupo Antolin Ingenieria, Spain)	I
<i>Prepreg formulation with graphene related materials</i>	
12:10 – 12:25: Silvia Gentiluomo (Istituto Italiano di Tecnologia - IIT, Italy)	O
<i>Unravelling the boron nitride flakes morphology to enhance polycarbonate performances</i>	
12:25 – 12:45: Adolfo Benedito (AIMPLAS, Spain)	I
<i>Innovative solid sorbents based on modified graphene and MOF materials for CO2 capture</i>	
12:45 – 13:05: Helge Weman (NTNU & CrayoNano AS, Norway)	I
<i>Using graphene as epitaxial substrate and transparent electrode for AlGaN UV LEDs</i>	
 <i>13:05 – 14:30: Lunch</i>	
 14:30 – 14:50: Pedro Gomez-Romero (ICN2, Spain)	I
<i>Graphene Nanofluids- From Thermal to Electrochemical Applications</i>	
14:50 – 15:10: Francisco José Fernández-Carretero (Tecnalia, Spain)	I
<i>Hybrid 3D graphene materials for energy applications</i>	
15:10 – 15:30: Rune Wendelbo (Abalonyx, Norway)	I
<i>Upcoming applications of graphene oxide and graphene oxide derivatives</i>	
15:30 – 16:00: Andrea Ferrari (Cambridge Graphene Centre, University of Cambridge, UK)	K
<i>Title to be defined</i>	
 <i>16:00– 16:30: Coffee Break / Poster Session & Exhibition</i>	
 16:30 – 16:45: Nersik Margaryan (Armenian State Pedagogical University after Khachatur Abovyan, Armenia)	O
<i>Mathematical Calculation of Screened Coulomb Interaction Potential in Graphene</i>	
16:45 – 17:00: Daniel A. Solis (CEA/SPINTEC, France)	O
<i>Proximity Magnetoresistance on Graphene Induced by Magnetic Insulators</i>	
17:00 – 17:15: Elisseos Verveniotis (WPI-MANA, NIMS, Japan)	O
<i>Room temperature electronic localization in a single graphene layer on sapphire by He-ion irradiation</i>	
17:15– 17:45: Mauricio Terrones (The Pennsylvania State University, USA)	K
<i>Defects in Metal Dichalcogenides: Effects in Catalysis & Optical Emission</i>	
17:45 – 18:30: Kostya Novoselov (NGI - The University of Manchester, UK)	P
<i>van der Waals Heterostructures</i>	
 18:30: Closing	