



## TENTATIVE PROGRAM (as of 22/01/2021)



### Conference Time Zone – Madrid, Spain (GMT+1)

K: Keynote lecture / I: Invited Lecture / FP: FlashPoster contribution



#### Tuesday (26/01/2021)

09:00 – 09:10: *Opening - Welcome and Introduction*

**Antonio Correia** (Phantoms foundation, Spain)

**Francesco Bonaccorso** (Bedimensional, Italy)

**Max Lemme** (AMO GmbH, Germany)

09:10 – 09:40: **Daniel Neumaier** (AMO / University of Wuppertal, Germany) K

Wafer-scale manufacturing of graphene based electronic and sensor devices

09:40 – 10:00: **Aravind Vijayaraghavan** (The University of Manchester, UK) I

Graphene Electro-mechanical Bio-sensors

10:00 – 10:20: **Peter Steeneken** (TU Delft, The Netherlands) I

Graphene Membranes for Pressure and Gas Sensors

10:20 – 10:40: **Amaia Zurutuza** (Graphenea, Spain) I

Graphene in Sensors

10:40 – 10:50: **Burkay Uzlu** (AMO, Germany) O

Gate-tunable graphene-based Hall sensors on flexible substrates with increased sensitivity

10:50 – 11:00: **Aron Cummings** (Catalan Institute of Nanoscience and Nanotechnology (ICN2), Spain) O

Optimization of Graphene Photothermoelectric Detectors

11:00– 11:20: *Break*

11:20 – 11:50: **Gianluca Fiori** (Universita' di Pisa, Italy) K

Perspectives and challenges in printable electronics based on two-dimensional materials

11:50 – 12:00: **Stefano Ippolito** (I.S.I.S. - Université de Strasbourg, France) O

Harnessing the Charge Transport in Covalently Interconnected TMD Networks

12:00 – 12:20: **Cedric Huyghebaert** (IMEC, Belgium) I

Setting up the ecosystem for 2D materials integration with Silicon technology

12:20 – 12:40: **Pedro Alpuim** (INL, Portugal) I

Graphene products for micro and macroelectronics

12:40 – 12:50: **FlashPoster Session**

12:50 – 14:00: *Lunch Break*

14:00 – 14:30: **Costas Galiotis** (FORTH/ ICE-HT and University of Patras, Greece) K

Graphene composites; current status and new perspectives towards commercial applications

14:30 – 14:50: **Nikolaus Nestle** (BASF, Germany) I

Black flakes with green value proposition – graphene polymer composites for sustainability

14:50 – 15:20: **Chul B. Park** (University of Toronto, Canada) K

Effect of Foaming on the Electrical and Thermal Conductivities of GnP Composites

15:20 – 15:40: **Mahdi Hamidi** (University of Toronto, Canada) I

Electromagnetic interference shielding and absorption with 2DM polymer nanocomposites

15:40 – 16:00: **ePoster Session**

16:00 – 16:20: *Break*

16:20 – 16:40: **Gordon Harling** (CMC Microsystems, Canada) I  
Accessing Infrastructure for Prototyping and Measurement

16:40 – 17:00: **Blerina Gjoka** (Abalonyx, Norway) I  
Modification Graphene Oxide: Opportunities in Industry

17:00 – 17:10: **Iñigo Torres** (Universidad Autónoma de Madrid, Spain) O  
Nebulization of nanomaterials suspensions for woven non-woven fabrics coating

17:10 – 17:20: **Gabriele Bianca** (Istituto Italiano di Tecnologia, Italy) O  
Two – Dimensional GaSe and GeSe Nanoflakes for Photoelectrochemical Water Splitting and (PEC)-Type Photodetectors

17:20 – 17:30: **Marco Piccini** (Istituto Italiano di Tecnologia, Italy) O  
Solution processed nickel-iron layered double hydroxides for energy storage applications and glucose sensing

17:30 – 17:40: **Nicola Curreli** (Istituto Italiano di Tecnologia, Italy) O  
Phototransistors from Liquid-Phase Exfoliated Transition Metal Monochalcogenide Flakes

17:40: End of day 1



**Wednesday (27/01/2021)**

09:00 – 09:30: **Peter Bøggild** (DTU Physics, Denmark) K  
Towards inline electrical metrology of graphene

09:30 – 09:50: **Denis Koltsov** (BREC Solutions Ltd, UK) I  
International standardisation for graphene and related 2D materials

09:50 – 10:10: **Aleandro Antidormi** (ICN2, Spain) I  
Emerging properties in amorphous forms of novel materials

10:10 – 10:30: **Andrew Pollard** (National Physical Laboratory, UK) I  
Development of International Measurement Standards

10:30– 10:50: *Break*

10:50 – 11:10: **Rezal Khairi Ahmad** (NanoMalaysia Berhad, Malaysia) I  
Graphenovation - Graphene Industry in Malaysia

11:10 – 11:20: **Johan Ek Weis** (SIO Grafen, Sweden) O  
Sweden aims to be in the top 10 countries at using graphene for industrial needs

11:20 – 11:40: **Yunqiao Fu** (CGIA, China) I  
Market Trends of Graphene in China 2020

11:40 – 12:00: **Luca Sorbello** (Greatcell Solar, Italy) I  
Perovskite Solar Panels with Graphene. An industrial perspective

12:00 – 12:20: **Christoph Stangl** (VARTA Micro Innovation GmbH, Austria) I  
Silicon/graphene composites for high-energy batteries

12:20 – 12:50: **Vittorio Pellegrini** (Bedimensional, Italy) K  
Graphene as a new material for Li-ion batteries

12:50 – 14:00: *Lunch Break*

14:00 – 14:20: **Stijn Goossens** (Qurv, Spain) I  
Enabling a world of enhanced perception

14:20 – 14:40: **Ida Marie Høiaas** (Crayonano, Norway) I

UVC LEDs Based on Nanowires and Graphene

14:40 – 15:00: **Masataka Hasegawa** (AirMembrane Corporation, Japan)

Development of groundbreaking graphene products in AirMembrane

I

*15:00 – 15:30: Break*

15:30 – 16:00: **Jose Antonio Garrido** (ICREA/ICN2, Spain)

Opportunities and Challenges of Graphene Technology in Medtech

K

16:00 – 16:30: **Mario Lanza** (KAUST, Saudi Arabia)

Wafer-scale integration of two-dimensional materials in high-density memristive crossbar arrays for artificial neural networks

K

16:30 – 16:50: **Lucia Gemma Delogu** (University of Padua, Italy)

Graphene and advanced 2D materials: immune-based applications

I

16:50 – 17:00: **Artur Moreira Pinto** (Faculty of Engineering - University of Porto, Portugal)

High yield nanographene oxide production for biomedical applications

O

17:00 – 17:10: **Filipa Silva** (I3S, Portugal)

Near-infrared light emitting diode based photothermal therapy with graphene: skin permeation studies

O

17:10 – 17:30: **Cécilia Ménard-Moyon** (CNRS, France)

Interactions of Graphene and Other 2D Materials with Biological Molecules: A Focus on Viral Infections

I

*17:30– 17:35: Closing*