

**European Graphene Forum - EGF 2017**  
**Smart Materials and Surfaces - SMS EUROPE 2017**  
**Joint Conferences Program**

**26 - 28 April, 2017, Paris - France**

April 26 <sup>th</sup> , 2017		
08:00-12:00	Registration	Registration Area
09:00- 10:30	Plenary Session I - EGF 2017 / SMS EUROPE 2017	Amphitheatre G
10:30-11:00	Coffee Break / Poster Session I	Main Hall
11:00-12:30	Plenary Session I - EGF 2017 / SMS EUROPE 2017	Amphitheatre G
12:00-14:00	Lunch Break / Poster Session I	Restaurant / Main
14:00-16:00	SMS 2017 - Session I.A: Smart and functional materials	Room 908
	EGF 2017 - Session I.B: Graphene and 2D Materials- Synthesis and functionalization	Room 909/910
	EGF 2017 - Session I.C: Graphene and 2D Materials - Characterization and Properties (Quantum transport, magnetism, spintronic, etc)	Room 911
16:00-16:30	Coffee Break/ Poster Session I	Main Hall
16:30-18:00	SMS EUROPE 2017 - Session I.A: Smart and functional materials	Room 908
	EGF 2017 - Session I.B: Graphene and 2D Materials- Synthesis and functionalization	Room 909/910
	EGF 2017 - Session I.C: Graphene and 2D Materials- Characterization and Properties (Quantum transport, magnetism, spintronic, etc)	Room 911
April 27 <sup>th</sup> , 2017		
09:00-10:30	Plenary Session II - EGF 2017 / SMS EUROPE 2017	Amphitheatre G
10:30-11:00	Coffee Break / Poster Session II	Main Hall
11:00-12:30	Plenary Session II - EGF 2017 / SMS EUROPE 2017	Amphitheatre G
	SMS EUROPE 2017 - Symposium on Functional Hybrid and Composite Materials	Room 908
12:00-14:00	Lunch break / Poster session II	Restaurant / Hall
14:00-16:00	SMS EUROPE 2017 - Symposium on Functional Hybrid and Composite Materials	Room 908
	SMS EUROPE 2017 - Session II.A: Bioinspired, Biomimetic and Bioactive biomaterials	Room 909/910
	EGF 2017 - Session II.B: Graphene and 2D Materials- Energy and environmental applications	Room 911
16:00-16:30	Coffee Break / Poster Session II	Main Hall
16:30-18:00	SMS EUROPE 2017 - Symposium on Functional Hybrid and Composite Materials	Room 908
	SMS EUROPE 2017 - Session II.A: Bioinspired, Biomimetic and Bioactive biomaterials	Room 909/910
	SMS EUROPE 2017 - Session II.C: New Materials for Energy and Environmental Applications	Room 911
April 28 <sup>th</sup> , 2017		
09:00-10:30	EGF 2017 - Session III: Graphene and 2D Materials- Bioapplications	Room 908
10:30-11:00	Coffee Break	Main Hall

April 26<sup>th</sup>, 2017

Plenary Session I: EGF 2017 / SMS EUROPE 2017

Amphitheatre G

Session Chairs:

Prof. Monica Craciun, Centre for Graphene Science, University of Exeter, UK

Prof. Maurizio Prato, University of Trieste, Italy

08:00-12:00 Registration

09:00-09:45	Functionalization and applications of graphene <b>M.Prato</b>	<b>Prof. Maurizio Prato</b> , University of Trieste, Italy
09:45-10:30	2D Nanomaterials: synthesis, processing, upscaling and applications <b>V. Nicolosi</b>	<b>Prof. Valeria Nicolosi</b> , Trinity college Dublin, Ireland

10:30-11:00 Coffee Break / Posters Session I

11:00-11:30	Graphene and Functionalized Graphene for Electronics, Photonics and Optoelectronics E Torres Alonso, I Amit, T. J Octon, N J Townsend, D Wehenkel, S Unal, .....and <b>M F Craciun</b>	<b>Prof. Monica Craciun</b> , Centre for Graphene Science, University of Exeter, UK
11:30-12:00	Competing structural orders at the interface between graphene and its substrate <b>J. Coraux</b>	<b>Dr. Johann Coraux</b> , Institut Néel, CNRS/ Grenoble Alpes University, France
12:00-12:30	Automotive Structures based Graphene Nanocomposites <b>A. Elmarakbi</b>	<b>Prof. Ahmed Elmarakbi</b> , Sunderland University, UK

12:30-14:00 Lunch Break / Posters Session I

SMS EUROPE 2017 - Session I.A: Smart and functional materials

Conference Room 908

Session Chairs:

Dr. Johannes T. B. Overvelde, FOM Institute AMOLF, Amsterdam, The Netherlands

Dr. Francisco M. Fernandes, Pierre et Marie Curie University, France

14:00-14:30	Rational design of reconfigurable prismatic architected materials <b>J.T.B. Overvelde</b> , J.C. Weaver, C. Hoberman and K. Bertoldi	<b>Dr. Johannes T. B. Overvelde</b> , FOM Institute AMOLF-Amsterdam, The Netherlands
14:30-15:00	Spatially Localized Self-Assembly Driven by Electrically Charged Phase Separation: Implications to Charged Polymeric Mixtures <b>A.Yochelis</b>	<b>Prof. Arik Yochelis</b> , Ben-Gurion University of the Negev, Israel
15:00-15:15	Transparent icephobic coatings based on bio-epoxy resin <b>X.H.Wu</b> and Z. Chen	<b>Ms. Xinghua Wu</b> , Nanyang Technological University, Singapore
15:15-15:30	Shape Memory Polymer based 3D Printed Soft Robot for Industrial Applications <b>Y.S. Kim</b> , J.Z. Gul, H.B.Kim and K.H. Choi	<b>Mr. Jahan Zeb Gul</b> , Jeju National University, Rep. of Korea
15:30-15:45	Modeling of the thermo-mechanical behavior of a semi-crystalline thermoplastic shape memory polymer <b>R. Bouaziz</b> , F. Roger and K. Prashantha	<b>Mr. Rami Bouaziz</b> , Ecole des Mines de Douai, France
15:45-16:00	Unravelling the Photoinduced Ligand-to-Cluster Charge Transfer Process in Zr-Based MOFs: Toward better Photocatalyst. <b>M. Gutiérrez</b> , B. Cohen, F. Sánchez and A. Douhal	<b>Mr. Mario Gutiérrez Tovar</b> , University of Castilla-La Mancha, Spain

16:00-16:30 Coffee Break / Posters Session I

16:30-16:45	Untethered Manipulation of Helical Soft Robots <b>J. J. Wie</b> , J.E. Park, J. Jeon, J.H. Cho, K.H. Lee, M.R. Shankar and T.J. White	<b>Prof. Jeong Jae Wie</b> , Inha University, Rep. of Korea
16:45-17:00	Corrosion-Resistant Self-Healing Coatings	<b>Dr. Eugenio Amendola</b> ,

	A. Pastore, S. Dello Iacono, A. Martone and <b>E. Amendola</b>	Institute for Polymers, Composites and Biomaterials, CNR, <b>Italy</b>
<b>17:00-17:15</b>	Selective metallization of flexible substrates by inkjet printing with electroless copper plating <b>G. Barral</b> , N. Hanifi, R.Faddoul and P. Viel	<b>Mr. Geoffrey Barral</b> , Paris Saclay University, <b>France</b>

**April 26<sup>th</sup>, 2017**

**EGF 2017 - Session I.B : Graphene and 2D Materials - Synthesis and functionalization**

**Conference Room 909/910**

**Session's Chairs:**

**Dr. Johann Coraux, Institut Néel, CNRS Grenoble Alpes University, France**

**Prof. Oren Regev, Ben-Gurion University of the Negev, Israel**

<b>14:00-14:30</b>	Graphite-to-Graphene: Total Conversion <b>M. Buzaglo</b> , I. Pri Bar, M. Varenik, L. Shunak, S. Pevzner and <b>O.Regev</b>	<b>Prof. Oren Regev</b> , Ben-Gurion University of the Negev, <b>Israel</b>
<b>14:30-15:00</b>	Impact of substrate on the thermal properties of graphene <b>D. Pinho</b> , <b>M. J. Pereira</b> , V. S. Amaral and R. Correia	<b>Prof. Maria R. Correia</b> , Aveiro University, <b>Portugal</b>
<b>15:00-15:15</b>	Scalable production of 2D materials based Heterostructures through green route <b>J. Kaur</b> , A. Vergara, M. Rossi, A. M. Gravagnuolo, M. Valadan, F. Gesuele, P. Giardina and C. Altucci	<b>Dr. Jasneet Kaur</b> , University of Naples, <b>Italy</b>
<b>15:15-15:30</b>	Interface Reactivity and Catalysis in Graphene on SiC to Unlock Exfoliation Mechanism by Electrochemical Bubbling Method <b>G. Rius</b> , E. Prats-Alfonso, R. Villa and P. Godignon	<b>Dr. Gemma Rius</b> , Barcelona Microelectronics Institute, <b>Spain</b>
<b>15:30-15:45</b>	Electrolytic phototransistor based on graphene-MoS <sub>2</sub> van der Waals p-n heterojunction with tunable photoresponse <b>H.Henck</b> , D.Pierucci, Z.Ben Aziza, J.Chaste, E.Lhuillier and A.Ouerghi	<b>Mr. Hugo Henck</b> , Centre de Nanosciences et de Nanotechnologies (C2N), <b>France</b>
<b>15:45-16:00</b>	Position Controlled Nucleation of Single-Crystal Graphene on Cu D. Ding, <sup>1</sup> P. Solís-Fernández, <sup>2</sup> H. Hibino, <sup>3</sup> and H. Ago <sup>1,2*</sup>	<b>Mr Dong Ding</b> , Kyushu University, <b>Japan</b>
<b>16:00-16:30 Coffee Break / Exhibition / Posters Session I</b>		
<b>16:30-16:45</b>	Structure of water confined in nanocarbons - pressure enhancement effects <b>M.Sliwinska-Bartkowiak</b> , H.Drozdowski, K.Domin, M.Jazdzewska, Y.Long and K.E.Gubbins	<b>Prof. Malgorzata Sliwinska-Bartkowiak</b> , A.Mickiewicz University, <b>Poland</b>
<b>16:45-17:00</b>	Van der Waals pressure and its effect on trapped interlayer molecules <b>K. S. Vasu</b> , E. Prestat, J. Abraham, S. J. Haigh, A. K. Geim and R. R. Nair	<b>Dr. Vasu Siddeswara Kalangi</b> , University of Manchester, <b>UK</b> .
<b>17:00-17:15</b>	Large-Area 2D-0D Heterostructures via Langmuir-Blodgett Film Deposition <b>A. Black</b> , J. Roberts, M. Acebrón, R. Bernardo-Gavito, G. Alsharif, F. J. Urbanos, B. H. Juárez, D. Granados, B. J. Robinson, A.L. Vázquez de Parga and R. J. Young	<b>Mr. Andres Black</b> , Universidad Autonoma de Madrid, <b>Spain</b>
<b>17:15-17:30</b>	Tuneable Sieving of Ions Using Graphene Oxide Membranes <b>J. Abraham</b> , K. S. Vasu, A. K. Geim and R. R. Nair	<b>Mr. Jijo Abraham</b> , University of Manchester, <b>UK</b>
<b>17:30-17:45</b>	Comparison of green reductants for graphene fabrication via liquid chemical exfoliation process <b>V. Khranovskyy</b> , I. Shtepliuk, I.Wlasny, P. Kazmierczak, A. Wyszynski, Z. Klusek, K. Shavanova, Y.Ruban, A. Tencha and R. Yakimova	<b>Dr. Volodymyr Khranovskyy</b> , Linköping University, <b>Sweden</b>
<b>17:45-18:00</b>	Hydrogenation and fluorination of graphene via plasma: a possible route to open the gap <b>G. V. Bianco</b> , M. Losurdo, M.M. Giangregorio, A. Sacchetti, G. Pace, P. Capezzuto, and G. Bruno.	<b>Dr. Giuseppe Valerio Bianco</b> , Institute of Nanotechnology/ CNR-NANOTEC, <b>Italy</b>

<b>18:00-18:15</b>	Graphene-doped TiO <sub>2</sub> nanotube composite for organic degradation under visible light S-R. Kim, <b>I.Ali</b> , K.Park and J-O. Kim	<b>Mr. Imran Ali</b> , Hanyang University, <b>Rep.of Korea</b>
<b>18:15-18:30</b>	A Novel Pt Nanoparticles Deposited and Tannic Acid-Reduced Graphene Oxide Nanocomposite for Glucose Oxidase Immobilization and its Application for Glucose Sensing Based on Direct Electrochemistry <b>B. Çakiroglu</b> and M. Özacar	<b>Mr Bekir Çakiroglu</b> , Sakarya University, <b>Turkey</b>
<b>18:30-18:45</b>	Direct growth of vertically oriented graphene nanowalls on multiple substrates by Low Temperature Plasma-Enhanced Chemical Vapor Deposition <b>A. Musheghyan-Avetisyan</b> , J. Marti-Gonzalez and E. Bertran-Serra	<b>Mrs. Arevik Musheghyan-Avetisyan</b> , Barcelone University, <b>Spain</b>

**April 26<sup>th</sup> , 2017**

**EGF 2017 - Session I.C: Graphene and 2D Materials- Characterisation and Properties (Quantum transport, magnetism, spintronics, etc)**

**Conference Room 911**

**Session's Chairs:**

**Prof. Ling Chao National Taiwan University, Taiwan**

**Prof. Mustafa Eginligil, Nanjing Tech University, China**

**Prof. Der-Jang Liaw, National Taiwan University of S&T, Taiwan**

<b>14:00-14:15</b>	Spectroscopic investigation of Ar/H <sub>2</sub> /CH <sub>4</sub> induction thermal plasma for understanding synthesis of graphene nano-flakes <b>A. Mohanta</b> , B. Lanfant, M. Asfaha and M. Leparoux	<b>Dr. Antaryami Mohanta</b> , EMPA-Swiss, <b>Switzerland</b>
<b>14:15-14:30</b>	Surface-enhanced Raman Scattering Activities of Two Typies of Graphene/Ag Nanopartclcs Hybrids <b>J. Zhang</b> , X.Y. Wang, T.C. Gong, J.M.Quan and Y.Zhu	<b>Prof. Jie Zhang</b> , Chong Qing University, <b>China</b>
<b>14:30-14:45</b>	Optical Characterization of Epitaxial Graphene with Confocal Laser Scanning Microscopy <b>R.E. Elmquist</b> , Y. Yang, V. Panchal, C-I. Liu, A. Rigosi and H-Y. Lee	<b>Dr. Rand Elmquist</b> , NIST, <b>USA</b>
<b>14:45-15:00</b>	Scanning photoemission imaging and spectromicroscopy: a powerfull tool to chemically characterize free standing graphene at the micro- and nano-scale <b>M. Amati</b> , H. Sezen and L. Gregoratti	<b>Dr. Matteo Amati</b> , Elettra - Soncrotrone Trieste S.C.p.A, <b>Italy</b>
<b>15:00-15:15</b>	Study on Thermal Stability of Multilayer Graphene with Metal Nanoparticle by Rapid Thermal Treatment in Oxygen Ambient <b>J.W. Lee</b> , S.W. Kim, Y.II. Song and S.J. Suh	<b>Mr. Jung Woo Lee</b> , Sungkyunkwan University, <b>Rep. of Korea</b>
<b>15:15-15:45</b>	Graphene and Carbon related Materials: Photonics and Optoelectronics Applications <b>D-J. Liaw</b> , C-Y. Tsai, Q. Zhang, Y-C. Huang and Y-Z. Wang	<b>Prof. Der-Jang Liaw</b> , National Taiwan University of S&T, <b>Taiwan</b>
<b>15:45-16:00</b>	Use of moiré pattern from epitaxially grown graphene on Ir(111): Organization and magnetic properties of FePt nanoparticles <b>P. Capiod</b> , F .Tournus, L. Bardotti, G. Renaud and V. Dupuis	<b>Dr. Pierre Capiod</b> , Université Claude Bernard Lyon1, <b>France</b>
<b>16:15-16:30</b>	<b>Coffee Break / Exhibition / Posters Session I</b>	
<b>16:30-17:15</b>	Rise of Periodic Potentials in Hybrid van der Waals Heterostruc-tures Formed by Supramolecular Lattices on Graphene <b>E. Orgiu</b>	<b>Dr. Marco Gobbi</b> , CNRS-Strasbourg University, <b>France</b>
<b>17:15-17:30</b>	Conductive Lightweight Composites of Polyetherimide with Gra-phene Nanoplatelets-Carbon Nanotube Hybrids H. Abbasi, <b>M. Antunes</b> and J.I. Velasco	<b>Dr. Marcelo Antunes</b> , UPC-Barcelona Tech, <b>Spain</b>
<b>17:30-17:45</b>	Precise electronic and valleytronic nanodevices based on strain engineering in graphene <b>N. Szapak</b> and T. Stegmann	<b>Dr. Nikodem Szpak</b> , University of Duisburg-Essen, Duisburg, <b>Germany</b>
<b>17:45-18:00</b>	Graphene and graphene-based composite materials for energy storage and thermal interfacing <b>X.W. Yuan</b> and S.L. Bai	<b>Dr. Xiaowen Yuan</b> , Massey University, <b>New Zealand</b>

18:00-18:15	Mechanical properties of Fe filled carbon nanotubes:a molecular dynamics approach <b>M. Kiwi</b> , V. Munizaga, R. Ramírez and G.García	<b>Prof. Miguel Kiwi</b> , Chile University, <b>Chile</b>
18:15-18:30	Gate tuneability of helicity dependent photocurrent in ABA- and ABC-stacked trilayer graphene <b>M. Eginligil</b>	<b>Prof. Mustafa Eginligil</b> , Nanjing Tech University, <b>China</b>

**April 27<sup>th</sup>, 2017**

**Plenary Session II: EGF 2017 / SMS EUROPE 2017**

**Amphitheatre G**

**Session Chairs:**

**Prof. Eduardo Ruiz-Hitzky, Instituto de Ciencia de Materiales de Madrid, CSIC, Spain**

**Prof. Vladimir Falko, Manchester University, United Kingdom**

**Dr. Fabio Miletto Granozio, CNR-SPIN Unit of Naples, Italy**

09:00-09:45	New 2D semiconductor: atomically thin crystals of InSe <b>V. Falko</b>	<b>Prof. Vladimir Falko</b> , Manchester University, <b>United Kingdom</b>
09:45-10:30	Inorganic and hybrid nanomaterials: Integrative Approaches <b>C.Sanchez</b>	<b>Prof. Clément Sanchez</b> , University of Pierre and Marie Curie, Collège de France, CNRS, <b>France</b>
<b>10:30-11:00 Coffee Break / Posters Session II</b>		
11:00-11:30	2D dichalcogenide electronic materials and devices <b>A. Kis</b>	<b>Prof. Andras Kis</b> , EPFL-Lausanne, <b>Switzerland</b>
11:30-12:00	Advanced spintronics in graphene-Van der Waals heterostructures <b>B. van Wees</b>	<b>Prof. Bart Van Wees</b> , University of Groningen, <b>The Netherland</b>
12:00-12:30	2D materials and hybrids for novel photonic devices <b>G. Eda</b>	<b>Prof. Goki Eda</b> , University of Singapore, <b>Singapore</b>
12:30-13:00	Graphene MMICs for high data-rate communication <b>O. Habibpour</b> , N. Rorsman and H. Zirath	<b>Dr. Omid Habibpour</b> , Chalmers University, <b>Sweden</b>
<b>12:30-14:00 Lunch Break / Posters Session II</b>		

**April 27<sup>th</sup>, 2017**

**SMS EUROPE 2017 - Session II.A: Bioinspired, Biomimetic and Bioactive biomaterials**

**Conference Room 909/910**

**Session Chairs:**

**Prof. Ester Vazquez, University of Castilla-la Mancha (UCLM), Spain**

**Prof. Maurizio Prato, University of Trieste, Italy**

14:00-14:45	Graphene for Bioapplications: Preparation, Cytotoxicity and Integration in 3D-scaffolds <b>E. Vazquez</b>	<b>Prof. Ester Vazquez</b> , University of Castilla-la Mancha (UCLM), <b>Spain</b>
14:45-15:30	Development of Lipid Bilayer Platforms for Processing Cell Membrane Species <b>L. Chao</b>	<b>Prof. Ling Chao</b> National Taiwan University, <b>Taiwan</b>
15:30-15:45	Novel, precise approach in the research on biodistribution of ZnO-based nanoparticles <b>P. Kielbik</b> , J. Kaszewski, B. Dominiak, E. Wolska, M. A. Gralak , Z. Gajewski, M. Godlewski and M. M. Godlewski	<b>Ms. Paula Kielbik</b> , Warsaw University of Life Sciences – SGGW, <b>Poland</b>
15:45-16:00	Uptake and Release of Dyes for Photodynamic Therapy from Hy-drogels <b>S. Glass</b> , A. Schulze and B. Abel	<b>Ms. Sarah Glass</b> , Leibniz Institute for Surface Modification, <b>Germany</b>
<b>16:00-16:30 Coffee Break / Posters Session II</b>		
16:30-16:45	Wide Band-Gap Oxides Nanoparticles as Drug Carriers <b>W. Lipinski</b> , J. Kaszewski, Z. Gajewski, M. Godlewski and M. M.	<b>Mr. Waldemar Lipinski</b> , Warsaw University of Life

	Godlewski	Sciences – SGGW, <b>Poland</b>
<b>16:45-17:00</b>	High-k Oxide Nanolayers for Biomedical Applications <b>I. Serafińska</b> , J. Kaszewski, R. Pietruszka, J. Cymerys, Z. Gajewski, M. Godlewski and M. M. Godlewski	<b>Ms. Izabela Serafinska</b> , Warsaw University of Life Sciences – SGGW, <b>Poland</b>
<b>17:00-17:15</b>	In-vivo analyses of the nanoparticle distribution by magnetic resonance <b>J. Olszewski</b> , K. Lorenc, K. Skierbiszewska, K. Siewruk, Z. Gajewski, M. Godlewski, J. Kaszewski and M. M. Godlewski	<b>Mr. Jarosław Olszewski</b> , Warsaw University of Life Sciences – SGGW, <b>Poland</b>

<b>April 27<sup>th</sup>, 2017</b>		
<b>SMS EUROPE 2017 - Symposium on Functional Hybrid and Composite Materials</b>		
<b>Conference Room 908</b>		
<b>Session Chairs:</b> <b>Prof. Eduardo Ruiz-Hitzky, Instituto de Ciencia de Materiales de Madrid, CSIC, Spain</b> <b>Dr. Francisco M. Fernandes, Pierre et Marie Curie University, France</b> <b>Dr. Pilar Aranda, Instituto de Ciencia de Materiales de Madrid, CSIC, Spain</b>		
<b>10:30-11:00 Coffee Break / Posters Session II</b>		
<b>11:00-11:30</b>	Processing and fine characterization of nanoporous hybrid thin films and membranes <b>A. Ayral</b>	<b>Prof. Andre Ayral</b> , Institut Europeen des Membranes, Montpellier university, <b>France</b>
<b>11:30-12:00</b>	In-situ spectroscopic ellipsometry for the fast development of functional thin films <b>C. Boissière</b>	<b>Prof. Cédric Boissière</b> , University Pierre et Marie Curie, CNRS, <b>France</b>
<b>12 :00-12 :15</b>	Deposition of Nanoporous Silica Layer on Particle Surface S. Bureekaew and <b>M. Ogawa</b>	<b>Prof. Makoto Ogawa</b> , Vidyasirimedhi Institute of Science and Technology, <b>Thailand</b>
<b>12:15- 12:30</b>	Synthesis, Mechanism and Functionalization of Bimodal Silica of SBA-15 Type <b>Y. Shchipunov</b>	<b>Prof. Yury Shchipunov</b> , Russian Academy of Sciences- Vladivostok, <b>Russia</b>
<b>12:30-14:00 Lunch Break / Posters Session II</b>		
<b>14:00-14:30</b>	Hybrid Biomaterials for Medicinal Applications <b>T. Weil</b>	<b>Prof. Tanja Weil</b> , Max Planck Institute for Polymer Research, <b>Germany</b>
<b>14:30-15:00</b>	Fabrication of 3D structured hybrid materials with nano second pulsed technology <b>T. Nakayama</b>	<b>Prof. Tadachika Nakayama</b> , Nagaoka University of Technology, <b>Japan</b>
<b>15:00-15:15</b>	Green foams based on clay-bionanocomposite materials M. Darder, B. Wicklein, F.M. Fernandes, A.C.S. Alcântara, R. F. Gouveia, P. Aranda, <b>E. Ruiz-Hitzky</b>	<b>Prof. Eduardo Ruiz-Hitzky</b> , Instituto de Ciencia de Materiales de Madrid, CSIC, <b>Spain</b>
<b>15:15-15:30</b>	Freeze casting hybrid living materials S. Christoph, T. Coradin and <b>F.M. Fernandes</b>	<b>Dr. Francisco M. Fernandes</b> , Pierre et Marie Curie University, <b>France</b>
<b>15:30-15:45</b>	Hybrid Layered Double Hydroxide/Sepiolite Heterostructures for Controlled Release Applications E.P. Rebitski, M. Darder, E. Ruiz-Hitzky, <b>P. Aranda</b>	<b>Dr. Pilar Aranda</b> , Instituto de Ciencia de Materiales de Madrid, CSIC, <b>Spain</b>
<b>15:45-16:00</b>	Chiral molecules based nano spintronics devices <b>S. Yochelis</b> and Y. Paltiel	<b>Dr. Shira Yochelis</b> , The Hebrew University of Jerusalem, <b>Israel</b>
<b>16:00-16:30 Coffee Break / Posters Session II</b>		
<b>16:30-17:00</b>	Multimodal Metal Oxide Nanoparticles and their bio-interactions M. Lavenas, M. Simon, H. Sez nec, J. Rocha, L.D. Carlos and <b>M-H. Delville</b>	<b>Dr. Marie-Helene Delville</b> , Bordeaux University, <b>France</b>
<b>17:00-17:30</b>	Multifunctional superstructures by hybridization of 2D solids	<b>Prof. Pierre Rabu</b> , CNRS -

	Q. Evrard, G. Rogez and <b>P. Rabu</b>	IPCM of Strasbourg, France
17:30-17:45	Fluorescence emission properties of a neutral porphyrin loaded into a layered inorganic-organic monolith <b>K. Fujii</b> , J.P. Hill, H. Hashizume, S. Shimomura, K. Ariga and T. Ando	<b>Dr. Kazuko Fujii</b> , National Institute for Materials Science (NIMS), Japan
17:45-18:00	Synthesis of Manganese-Based Metal-Organic Frameworks <b>W. Tranganphaibul</b> and S. Bureekaew	<b>Ms. Wararat Tranganphaibul</b> , Vidyasirimedhi Institute of Science and Technology, Thailand
18:00-18:15	Crystal Engineering of Bimetallic Metal-Organic Frameworks based on MIL-101 <b>T. Tanasaro</b> and S. Bureekaew	<b>Ms. Thanadporn Tanasaro</b> , Vidyasirimedhi Institute of Science and Technology, Thailand
18:15-18:30	Brønsted Acid-Base Bifunctional Zr-Based Metal-Organic Framework <b>W. Pratanpornlerd</b> and S. Bureekaew	<b>Mr. Warat Pratanpornlerd</b> , Vidyasirimedhi Institute of Science and Technology, Thailand

**April 27<sup>th</sup>, 2017**

**EGF 2017 - Session II.B: Graphene and 2D Materials- Energy and environmental applications**

**Conference Room 911**

**Session's Chairs:**

**Prof. Ahmed Elmarakbi, University of Sunderland, UK/ Prof. Maria R. Correia, University of Aveiro, Portugal**

14:00-14:15	Binder-free metal loaded graphene aerogel for electro-oxidation of alcoholic fuels from a one-step, mild, and green preparation <b>C. H. A. Tsang</b> and D. Y. C. Leung	<b>Dr. Chi Him Alpha Tsang</b> , The University of Hong Kong, Hong Kong
14:15-14:30	Graphene/Fe <sub>3</sub> O <sub>4</sub> Nanocomposite: Interplay between photo-Fenton type reaction, and carbon purity for the removal of methyl orange <b>A. Arshad</b> and J. Iqbal	<b>Ms. Aqsa Arshad</b> , International Islamic University, Pakistan
14:30-14:45	Development of graphene-modified yarns and woven fabrics for next-generation textiles <b>B. Weise</b> , G. Köppe, L. Völkel, G. Seide and M. Morgenstern	<b>Mr. Benjamin Weise</b> , RWTH Aachen, Germany
14:45-15:00	Influence of Dopant and Oxidant on the Electrochemical Properties of GNP/PANI Composites X. Zhao, <b>J. Pionteck</b> and O. Grätz	<b>Dr. Jürgen Pionteck</b> , Leibniz Institute of Polymer Research Dresden, Germany
15:00-15:15	Organic photovoltaic cells and modules with functionalized CVD-graphene as highly transparent conductive electrodes <b>L. La Notte</b> , E. Villari, A.L. Palma, A. Sacchetti, M.M. Giangregorio, G. Bruno, A. Di Carlo, G.V. Bianco and A. Reale	<b>Dr. Luca La Notte</b> , CHOSE - University of Rome Tor Vergata, Italy
15:15-15:30	Mass Transport Through 2D Materials Based Membranes <b>Y. Su</b> and R.R Nair	<b>Dr. Yang Su</b> , University of Manchester, UK
15:30-15:45	CO adsorption on graphene: A theoretical approach J. Wilson, <b>N. Faginas-Lago</b> , J. Vekeman, I.G. Cuesta, J. Sánchez-Marín and A. Sánchez de Merás	<b>Dr. M. Noelia Faginas Lago</b> , University of Perugia, Italy
15:45-16:00	Graphene-based batteries to improve the efficiency of the existing technologies G.T. Raquel, H. Martínez David and G. Bermúdez Lucia	<b>Dr. Raquel Gonzalez</b> , GrapheneTech S.L, Spain
16:15-16:30	<b>Coffee Break / Exhibition / Posters Session I</b>	

April 27<sup>th</sup>, 2017

**SMS EUROPE 2017 - Session II.C: New Materials for Energy and Environmental Applications**

**Conference Room 911**

16:30-17:00	2-Dimensional Electron Gases at Oxide Interfaces <b>F. Miletto Granozio</b>	<b>Dr. Fabio Miletto Granozio</b> , CNR-SPIN Unit of Naples, Italy
17:00-17:15	Preparation and characterization of Soundproofing PVP/Graphene electrospun mats <b>G.R.Del Sorbo</b> , G.Petrone, G.Tomaiuolo, A.Vergara, G.Ausanio, S.Guido, F.Marulo and F.Branda	<b>Dr Giuseppe R. Del Sorbo</b> , University Federico II of Naples, Italy
17:15-17:30	Comparison between flexible PZT and BTO piezoelectric films for mechanical energy harvesting <b>R. Seveno</b> , T. Dufay, B. Guiffard	<b>Dr. Raynald Seveno</b> , Bretagne Loire University, France
17:30-17:45	First-principles study of the transport properties in bulk and monolayer MX <sub>3</sub> (M = Ti, Zr, Hf and X = S, Se) compounds <b>Y. Saeed</b> , A.Kachmar, and M.A. Carignano	<b>Dr. Yasir Saeed</b> , Hamad Bin Khalifa University (HBKU), Qatar
17:15-17:30	Enhancing CO <sub>2</sub> adsorption of metal-organic activated carbon through APTES grafting and Co-NPs incorporation <b>N. Bouazizi</b> , R. Bargougui, J. Vieillard, N. Mofaddel, O. Thoumire, G. Ladam, N. Brun, P. Fotsing, E. Djoufac Woumfo and F. Le Derf	<b>Mr. Bouazizi Nabil</b> , University of Rouen, France
17:30-17:45	Heteroatom doped graphene-semiconductor composites for CO <sub>2</sub> photoreduction: Influence of sulfur and nitrogen species <b>L.M. Pastrana-Martinez</b> , M. Pedrosa, J.L. Figueiredo, J.L. Faria and A.M.T. Silva	<b>Dr. Luisa M Pastrana Martinez</b> , University of Porto, Portugal

April 28<sup>th</sup>, 2017

**EGF 2017 - Session III: Graphene and 2D Materials- Bioapplications**

**Conference Room 908**

**Session's Chairs:**

**Prof. Ling Chao, National Taiwan University, Taiwan**

09:00-09:15	Impact of Covalent Functionalization on the Aqueous Processability, Catalytic Activity, and Biocompatibility of Chemically Exfoliated MoS <sub>2</sub> Nanosheets J.I. Paredes, <b>J.M. Munuera</b> , S. Villar-Rodil, L. Guardia, M. Ayán-Varela, A. Pagán, S.D. Aznar-Cervantes, J.L. Cenis, A. Martínez-Alonso and J.M. D. Tascón	<b>Mr. Jose Munuera</b> , INCAR- CSIC, Spain
09:15-09:30	Graphene oxide is trapped and degraded by primary human neutrophils and the degradation products are non-genotoxic <b>S.P. Mukherjee</b> , B. Lazzaretto, K. Bhattacharya, A. Gliga, B. Brandner, M. Fielden, A. Star, N. Lozano, K. Kostarelos and B. Fadeel	<b>Dr. Sourav Pr. Mukherjee</b> , Karolinska Institute, Sweden
09:30-09:45	Graphene Field-Effect Transistors for Biomedical Applications R. Campos, E. Fernandes, G. Machado Jr., P.D. Cabral, M.F. Cerqueira, J. Borme and <b>P. Alpuim</b>	<b>Dr. Pedro Alpuim</b> , INL - International Iberian Nanotechnology Laboratory, Portugal
09:45-10:00	Biocompatibility of silicone rubber/graphene-nanoplatelets composites with improved mechanical properties <b>A.Pinto</b> , S. Creason, Z. Wescoe, L. Zhen, R. Khalifehzadeh, M. Mecwan, C. Winston, F. Magalhães, I. Gonçalves and B. Ratner	<b>Mr. Artur M. Pinto</b> , University of Porto, Portugal
10:00-10:15	Mesenchymal stem cells coated with graphene oxide loaded with drugs for cancer therapy <b>S.Suryaprakash</b> and K.Leong	<b>Ms. Smruthi Suryaprakash</b> , Columbia University, USA
10:15-10:30	Copper Hydroxide Flower like Nanostructured decorated on Three Dimensional Graphene As Non-enzymatic Electrochemical Glucose Sensor <b>I. Shackery</b> and S. C. Jun	<b>Mr. Iman Shackery</b> , Yonsei University, Rep. of Korea

10:30-11:00 Coffee Break

## Posters Sessions

**April 26<sup>th</sup>, 2017**

### Poster Session I: SMS EUROPE 2017

#### Main Hall

N.	Poster Title	Author/Affiliation/Country
1	Structural and Optical Properties of CuInS <sub>2</sub> Nano-particles on TiO <sub>2</sub> by Spray Pyrolysis <b>H-S. Jung</b> and G-C. Park	<b>Ms. Hyunsu Jung</b> , Mokpo National University, <b>Rep.of Korea</b>
2	Magnetically Active Helical Soft Robots <b>J. Jeon</b> , J. E. Park, J. H. Cho, K. H. Lee, J. J. Wie	<b>Mr. Jisoo Jeon</b> , Inha University, <b>Rep. of Korea</b>
3	Lattice Defects-Driven Magnetic Transformations in BiFeO <sub>3</sub> -Based Multiferroics <b>U. Khomchanka</b> and J. A. Paixão	<b>Dr. Uladzimir Khomchanka</b> , University of Coimbra, <b>Portugal</b>
4	Permanent Memory Effect of PDLCs devices: Effect of Glass Transition Temperature <b>A. Mouquinho</b> and J. Sotomayor	<b>Mrs. Ana Mouquinho</b> , NOVA University of Lisbon, <b>Portugal</b>
5	Development of a polymer-metal composite for dynamic-mask microstereolithography <b>B.Khatri</b> , A.Bhat and T. Hanemann	<b>Mr. Bilal Khatri</b> , IMTEK - University of Freiburg, <b>Germany</b>

**April 26<sup>th</sup>, 2017**

### Posters Session I: EGF 2017

#### Main Hall

N.	Title	Author/Affiliation/Country
6.	Functionalization of graphene oxide with tetraethylene-pentamine (TEPA): CO <sub>2</sub> capture application. <b>M.González-Barriuso</b> , C. Pesquera, F.González1, Á.Yedra and C.Blanco	<b>Mrs. Marina González-Barriuso</b> , Technological Centre of Components Foundation, <b>Spain</b>
7.	Growth of MoxW <sub>1-x</sub> Se <sub>2</sub> Film with Tunable Band Gap via Metal-Organic Chemical Vapor Deposition <b>L. Yoo Been</b> and L. Jin Seok	<b>Ms. Yoo Been Lee</b> , Sookmyung Women's University, <b>Rep. of Korea</b>
8.	Molecular Layer Deposition of Hybrid Organic-Inorganic Alucone Films Using Organic Precursors with Different Carbon Bond Order <b>U-J. Choi</b> and J.S. Lee	<b>Ms. Ui Jin Choi</b> , Sookmyung Women's University, <b>Rep. of Korea</b>
9.	A New Approach to Graphene Manufacturing for Solid State Devices and Compound Heterostructure Applications <b>S. Thomas</b> , I. Guiney and C. Humphreys	<b>Dr Ivor Guiney</b> , 2D Technologies Ltd.-Cambridge, <b>UK</b>
10.	Functionalization of reduced graphene oxide suspension by submerged plasma jet. <b>S. Vizireanu</b> , M.D. Ionita, S. D. Stoica, L. Carpen, M. Teodorescu, I. Ion, M. Ionita and G. Dinescu	<b>Dr. Sorin Vizireanu</b> , National Institute for Lasers, Plasma and Radiation Physics, <b>Romania</b>
11.	Role of hydrogen plasma post-treatment: etching behavior of vertically aligned graphene nano wall by electron cyclotron resonance plasma <b>J-H. Shin</b> , H.J. Park, Y-H. Jung, Y-S. Choi, Y.II. Song and S.J. Suh	<b>Mr. Jin-ha Shin</b> , Sungkyunkwan University, <b>Rep.of Korea</b>
12.	Potentials for CH <sub>4</sub> , H <sub>2</sub> O, CO <sub>2</sub> , N <sub>2</sub> and H <sub>2</sub> adsorption on graphene <b>J. Vekeman</b> , J. Wilson, I. Garcia Cuesta, N. Faginas Lago, J. Sánchez Marin and A. M. Sánchez de Merás	<b>Mr. Jelle Vekeman</b> , València University, <b>Spain</b> .
13.	TiO <sub>2</sub> -GO and TiO <sub>2</sub> -rGO Nanocomposites: Investigation on Structure, Morphology, Spectroscopic and Magnetic Studies <b>E. Kusiak-Nejman</b> , D. Moszyński, A. Wanag, J. Kapica-Kozar, Ł. Kowalczyk, R.J. Wróbel, A.W. Morawski and N. Guskos	<b>Dr. Ewelina Kusiak-Nejman</b> , West Pomeranian University of Technology, <b>Poland</b>
14.	XPS analyses of as-rubbed mono- and few layer graphene films obtained by the substrates rubbing method G. Shmavonyan, K. Hricovini, O. Heckmann, E. Boiakinov, W. Ndiaye, S. Vaiedelich and <b>M. C. Richter</b>	<b>Prof. Christine Richter</b> , Cergy-Pontoise University, <b>France</b>

**April 27<sup>th</sup>, 2017**  
**Poster Session II: SMS EUROPE 2017**

**Main Hall**

N.	Poster Title	Author/Affiliation/Country
1.	Effect of Aluminium and Boron Ion Incorporation on Structure, Bioactivity and Mechanical Properties of Ordered Mesoporous Bioactive Glasses <b>O. Winter</b> , S. Melchers, T. Uesbeck, O. Lahayne, C. Hellmich, H. Eckert and D. Eder	<b>Mr. Oliver Winter</b> , Vienna University of Technology, <b>Austria</b>
2.	Tailoring of moisture management PLA fibers: Application of temperature and pH responsive nanogel <b>D. Štular</b> , B. Tomšič, B. Simončič, I. Jerman and M. Mihelčič	<b>Mrs. Danaja Stular</b> , University of Ljubljana, <b>Slovenia</b>
3.	Immobilization of titania nanoparticle into mesoporous silicas <b>K. Vibulyaseak</b> and M. Ogawa	<b>Mr. Kasimanat Vibulyaseak</b> , Vidyasirimedhi Institute of Sci and Tech (VISTEC), <b>Thailand</b>
4.	Synthesis of new organic-inorganic hybrid - Physicochemical characterization and catalytic investigations <b>S. Dzwigaj</b> , K. Pamin, J. Połtowicz and S. Basąg	<b>Prof. Stanislaw Dzwigaj</b> , UPMC/CNRS- Sorbonne University, <b>France</b>
5.	Adsorption of indium ions from aqueous solution on layered silicates <b>N. Homhuan</b> and M. Ogawa	<b>Mr. Natthawut Homhuan</b> , Vidyasirimedhi Institute of Science and Technology (VISTEC), <b>Thailand</b>
6.	New dielectric properties in the hybrid DMAPbX <sub>3</sub> (X=I and Br) perovskite A. García-Fernández, J. M. Bermúdez-García, <b>S. Castro-García</b> , A. L. Llamas-Saiz, R. Artiaga, J. López-Beceiro, M. Sánchez-Andújar and M. A. Señaris-Rodríguez	<b>Ms. Socorro Castro-García</b> , University of A Coruña, <b>Spain</b>
7.	Evaporation of aromatic hydrocarbons from mesoporous silicas: Controlled release of aromatic hydrocarbons by the complexation with mesoporous silicas <b>W. Reanthonglert</b> , K. Imwiset, S. Bureekaew, R. Yazawa and M. Ogawa	<b>Mr. Wichayut Reanthonglert</b> , Vidyasirimedhi Institute of Science and Technology (VISTEC), <b>Thailand</b>
8	Bioinspired Multifunctional Surfaces for Lab-on-Chip Applications <b>A.S. Moita</b> and A.L.N. Moreira	<b>Dr. Ana Moita</b> , Lisbon University, <b>Portugal</b>

**April 27<sup>th</sup> 2017**  
**Posters Session II: EGF 2017**

**Main Hall**

N.	Title	Author/Affiliation/Country
8.	Dedicated functionalized graphene-based FET for highly sensitive detection of GQDs <b>J. Brndiarová</b> , M. Hulman, D. Gregušová, M. Bodík, P. Šiffalovič, V. Skákalová, Z. Markovič and K. Fröhlich	<b>Ms. Jana Brndiarova</b> , Slovak Academy of Sciences, <b>Slovakia</b>
9.	Disorder induced unusual quantum Hall effect in low p-doped epitaxial graphene <b>A. Nachawaty</b> , M. Yang, S. Nanot, B. Jabakhanji, W. Desrat, W. Escoffier and B. Jouault	<b>Ms. Abir Nachawaty</b> , Montpellier University, <b>France</b>
10.	The Effect of Oxygen Containing Functional Groups of Graphene-Oxide on The Morphology of Hydroxyapatite <b>S. Turk</b> , B. Cakiroglu, I. Aitinsoy, M. Ozacar and C. Bindal	<b>Mr. Serbülent Türk</b> , Sakarya University, <b>Turkey</b>
11.	Combination of Surface Charge and Size Controls the Cellular Uptake of Functionalized Graphene Sheets <b>Z. Tu</b> , M. Adeli and R. Haag	<b>Mr. Zhaoxu Tu</b> , Freie Universität Berlin, <b>Germany</b>
12	Quantitative phase imaging for biocompatibility of graphene oxide analysis M. Mugnano, <b>G.C. Lama</b> , V. Marchesano, P. Cerruti, P. Ferraro and G. Gentile	<b>Dr. Giuseppe Cesare Lama</b> , University of Naples Federico II, <b>Italy</b>