

Program for EMN Meeting on SMM-2016		
Monday Afternoon, August 22, 2016		
14:00-18:00	Onsite registration & Sign up	
Tuesday Morning August 23, 2016 Room B		
08:00-08:10	Opening Ceremony	
Session: Emerging 1D, 2D and 3D Nanomaterials: Synthesis, Properties & Applications I Chair: Kees Hummelen		
08:10-08:35	B01: Semiconductor electrodeposition under magnetic field	Anne Lise Daltin University of Reims Champagne-Ardenne, France
08:35-09:00	B02: Characterization methods of current and future magnetic recording systems using switching field distributions	Sergiu Ruta The University of York, UK
09:00-09:25	B03: Impact on carrier type of the giant metal deficiency observed in ZnO and NiO nanoparticles	Laurent Cario Paul Sabatier University, France
09:25-09:50	B04: Photonic Applications of Hyperbolic Metamaterials and Composite Dielectric Meta-surfaces	Andrew Grieco University of California, USA
09:50-10:15	B05: Laser Assisted Synthesis of Colloidal Nanoparticles in various Fluids	Wolfgang Kautek University of Vienna, Austria
10:15-10:25	Session Break	
Session: Session: Emerging 1D, 2D and 3D Nanomaterials: Synthesis, Properties & Applications II Chair: David J. Mcgarvey		
10:25-10:50	B06: Gold Nanoparticles as Catalyst of Redox Reactions	Pablo Hervés Beloso Universidade de Vigo, Spain
10:50-11:15	B07: Towards peptide mediated thermo-responsive polysaccharide hydrogels	Ronit Bitton Ben-Gurion University of the Negev, Israel
11:15-11:40	B08: Electrochemical Synthesis of 2 and 3D nanostructures with Fascinating Mechanical and Optical Properties	Laetitia Philippe Swiss Federal Laboratories for Materials Science and Technology, Switzerland

11:40-12:05	B09: Electronic Properties of Two-dimensional Materials: Inorganic to Organometallic Layered Materials	Hong Seok Kang Jeonju University, S.Korea
12:05	Lunch Break	

Tuesday Afternoon August 23, 2016 Room B		
Session: Multifunctional Material for Sensors and Smart Structures Technologies I Chair: Andrew Grieco		
13:00-13:25	B10: Smart lanthanide-based nano-systems for sensing and imaging	Asiya R Mustafina Russian Academy of Sciences, Russia
13:25-13:50	B11: Photocatalytic and sensing properties of TiO ₂ nanostructures	Cristina Gómez-Polo Public University of Navarra, Spain
13:50-14:15	B12: Orientation and conformation of proteins adsorbed on spin-cast poly(3-alkylthiophenes): impact of polymer film crystallinity	Kamil Awsiuk Jagiellonian University, Poland
14:15-14:40	B13: Nano-structured GaN as platforms for Surface Enhanced Raman Spectroscopy (SERS) measurements	Jan Weyher Institute of High Pressure Physics, PASW, Poland
14:40-15:05	B14: Dynamic and Multifunctional Fabric Materials for Chemical Weapon Protection	David J. Mcgarvey Edgewood Chemical Biological Center, USA
15:05-15:30	B15: New high selective fluorescent chemosensor based on the aggregated pyrene@2-beta-cyclodextrin complex, Optical properties and structure	Vitaly Avakyan Russian Academy of Sciences, Russia
15:30-15:55	Session Break	
Session: Advanced Materials for Electrochemical Energy Storage I Chair: Zongwei Xu		
15:55-16:20	B16: Synthesis of Highly Specific Silicon Nanoparticles in the Gas-Phase – An Economic and Sustainable Production Route of Raw Materials for Battery Applications	Tim Hülser Institute for Energy and Environmental Technology, Germany

16:20-16:45	B17: Nanostructured Carbon Composites as Advanced Electrodes in Energy Storage Devices	Daniel Carriazo CIC-Energigune, Spain
16:45-17:10	B18: Bio-inspired iron oxyhydroxides for a potential candidate of lithium-ion battery anode material	Hideki Hashimoto Kogakuin University, Japan
17:10-17:35	B19: Dye-sensitized solar cells	Jiann T'suen Lin Institute of Chemistry, Academia Sinica, Taiwan
17:35-18:00	B20: Preparation of Ordered Semiconductor Nanorod Arrays Using Anodic Porous Alumina	Hideki Masuda Tokyo Metropolitan University, Japan
18:10	Dinner Social	

Wednesday Afternoon August 24, 2016 Room B		
Session: Emerging 1D, 2D and 3D Nanomaterials: Synthesis, Properties & Applications III Chair: Axel Enders		
13:00-13:25	B21: Band gap engineering in penta-graphene by substitutional doping: first-principles calculations	Golibjon Berdiyrov Hamad bin Khalifa University, Qatar
13:25-13:50	B22: Responsive Synthetic Tubules from Self-Assembly of Aromatic Amphiphiles	Yongju Kim Jilin University, China
13:50-14:15	B23: Template-Realized Functional 3D Nanostructures for High Performance Energy Conversion and Storage Devices	Yang Xu Ilmenau University of Technology, Germany
14:15-14:40	B24: Optical Properties of WS ₂ Nanotubes	Bojana Visic Weizmann Institute of Science, Israel
14:40-15:05	B25: Functional polymer nanowires synthesized by a pulsed laser irradiation	Masahiro Goto National Institute for Materials Science, Japan
15:05-15:30	B26: Novel Highly efficient nanocatalysts for synthesis of formaldehyde from methanol	Abdel-Aziz Ahmed Said Assiut University, Egypt
15:30-16:00	Session Break & Poster	
Session: Emerging 1D, 2D and 3D Nanomaterials: Synthesis, Properties & Applications IV Chair: Ronit Bitton		

16:00-16:25	B27: Electrical properties of multifunctional Double Perovskite materials for device applications	Dev Kumar Mahato National Institute of Technology Patna, India
16:25-16:50	B28: Stability and electronic structure of hydrogenated and fluorinated graphene on metallic and insulating substrates	Jacek A. Majewski University of Warsaw, Poland
16:50-17:15	B29: On-surface synthesis of functionalized graphdiyne nanowires	Florian Klappenberger Technische Universität München, Germany
17:15-17:40	B30: One-step light-assisted synthesis of metal nanoparticles and metal@photopolymer nanocomposites	Lavinia BALAN Institute of Materials Science of Mulhouse, CNRS UMR, France
17:40-18:05	B31: Hybrid organic polymer-carbon nanotubes composite membranes, Synthesis and applications	Stefan Ioan Voicu University Politehnica, Romania
18:30	Dinner Social	

Wednesday Morning		
August 24, 2016		Room C
Session: General I Chair: Radoslaw Mrówczyński		
08:00-08:25	C01: Molecular and Hybrid Building Blocks for Next-Gen PV	Kees Hummelen University of Groningen, The Netherlands
08:25-08:50	C02: Multiphasic fluid mixtures without surfactant and their applications	Jerome Bibette Laboratoire Colloïdes, ESPCI, France
08:50-09:15	C03: Modelling oxide/metal interfaces with first principles	Maytal Caspary Toroker Technion - Israel Institute of Technology, Israel
09:15-09:40	C04: Temperature sensitive multifunctional nanomaterials based on supramolecular complexes involving macrocyclic oligosaccharides	Pawel K. Zarzycki Koszalin University of Technology, Poland
9:40-10:05	C05: Transparent Conducting Materials for Energy: They are all nano	Daniel Bellet Grenoble Institute of Technology, France
10:05-10:20	Session Break	
Session: : General II Chair: Catalin Zaharia		

10:20-10:45	C06: Effect of the Space Dimension Reduction upon the Spin Ordering in the Electron Fermi-Gas	Elena Orlenko Peter the Great St.Petersburg Polytechnic University, Russia
10:45-11:10	C07: Gold nanostars inkjet-printed patterns on flexible substrates for photo-thermal applications	Giuseppe Chirico University of Milano Bicocca, Italy
11:10-11:35	C08: Nanofabrication of Surface-enhanced Raman Spectroscopy Substrates by Self-assembly Nanoscale Polystyrene (PS) Spheres' 3D Configuration Modulation using Ion Sputtered Au	Zongwei Xu Tianjin University, China
11:35-12:00	C09: Fabrication and Characterization of Silica Glass from Mesoporous Powder by SPS	Lianjun Wang Donghua University, China
12:00	Lunch Break	

Wednesday Afternoon		
August 24, 2016 Room C		
Session: Recent Advances in Multiferroic and Magnetoelectric Materials and Applications		
Chair: Giuseppe Chirico		
13:00-13:25	C10: Interface controlled manganite films and superlattices for memory applications	Bangmin Zhang National University of Singapore
13:25-13:50	C11: Synthesis of multifunctional polydopamine coated magnetic nanoparticles	Radoslaw Mrówczyński Adam Mickiewicz University, Poland
13:50-14:15	C12: Interface-mediated Magnetoelectric Coupling in Artificial Multiferroics	Salia Cherifi-Hertel University of Strasbourg, France
14:15-14:40	C13: A path towards 2D organic ferroelectrics	Axel Enders University of Nebraska, USA
14:40-15:05	C14: Voltage control of magnetic properties in BaTiO ₃ hetero structures	Alexandra Mougín University of Paris XI, France
15:05-15:30	C15: Study the thermoelectric properties base on the Organic Materials and Thin Film Device	Ling Xu Huazhong University of Science and Technology, China
15:30-16:00	Session Break & Poster	

Poster	P01: Giant electric potential generate by Seebeck effect in a layered inorganic/organic hybrid device structure	Huimin Lin Huazhong University of Science and Technology, China
Poster	P02: Cyclodextrin Derivatives for Cell Imaging, Photodynamic Therapy and Targeted Drug Delivery	Benkovics, Gábor CycloLab, Cyclodextrin R&D Ltd, Hungary
Poster	P03: Polysaccharide Hydrogels cross-linked via Thermo-Responsive Peptide-Dendrimers	Yulia Shmidov Ben-Gurion University of the Negev, Israel
Poster	P04: Synthesis and Characterization of Au-CdTe Hybrid Nanostructures for Therapeutics Applications of Cervical Cancer Model	Muhammad Umar Farooq IFFS, University of Science and Technology of China
Poster	P05: Porous silicon with silver nanoparticles formed by ion implantation us potential candidate material for solar cell application	Andrey L. Stepanov Kazan Physical-Technical Institute of the Russian Academy of Sciences, Russia
Poster	P06: Nanofilm processors applied on QR codes: a new type of advertising media	Anton Gaus University of Muenster, Germany
Poster	P07: Ab initio investigation of graphene nanoribbons kinetic stability and optical properties	Aleksandr Fedorov Kirensky Institute of Physics, Russia
Poster	P08: Fabrication of tribo-electric Nano generators by using polymer-nanoparticle composites	Sukhen Das Jadavpur University, India
Poster	P09: Use of some photosensitive dye-nanoparticle composites in efficient light energy harvesting	Ruma Basu Jogamaya Devi College, India
Poster	P10: Collective Motion of DNA and Coat Assembly	Huichang Li Jilin University, China
Session: Multifunctional Nanocarriers & Biomedical Applications I		
Chair: Anuja Datta		
16:00-16:25	C16: Injectable multifunctional nanomedicine forms for anti-cancer theranosis	Igor Chourpa UFR des Sciences Pharmaceutiques Philippe Maupas, France
16:25-16:50	C17: Chitosan coated magnetic nanoparticles for bioligands binding	Marta Ziegler-Borowska Nicolaus Copernicus University, Poland
16:50-17:15	C18: Polymeric scaffolds containing magnetic nanoparticles for tissue engineering applications	Catalin Zaharia University Politehnica of Bucharest, Romania

17:15-17:40	C19: Nano Biomimetic: Materials for the future	Oded Shoseyov Hebrew University of Jerusalem & Collplant Holdings Ltd., Israel
17:40-18:05	C20: SERS Detection of Genetic Biomarkers using polymer nanopillars gold arrays	Carlo Morasso Laboratory of Nanomedicine and Clinical Biophotonics, Irlay
18:05-18:30	C21: Nanoscopic study of hybrid of biomolecules and carbon nanotubes	Kazuo Umemura Tokyo University of Science, Japan
18:30	Dinner Social	

Thursday Morning August 25, 2016 Room B		
Session: Emerging 1D, 2D and 3D Nanomaterials: Synthesis, Properties & Applications V Chair: Florian Klappenberger		
08:00-08:25	B32: Synthesis of metal-oxide and metal-oxide based hybrid Nanostructures	Taleb Mokari Ben-Gurion University of the Negev, Israel
08:25-08:50	B33: Hyper-bright nanoparticles made from molecules: new nanotools for imaging	Mireille Blanchard Desce University of Bordeaux, France
08:50-09:15	B34: Enhanced Properties and Applications of New Ferroelectric and Piezoelectric Nanowires	Anuja Datta University of Cambridge, UK
09:15-09:40	B35: Molecular Dynamics Simulations used as a tool for Investigating Shear-Induced Structural Rearrangements in Molybdenum Disulfide	Paolo Nicolini Czech Technical University, Czech Republic
9:40-10:05	B36: Synthesis and characterization of quercetin-loaded calcium phosphate nanoparticle (Q-CPNP): May have potential uses as pH sensor, biocompatible fluorophore and antioxidative	Tarakdas Basu University of Kalyani, India
10:05-10:20	Session Break	
Session: Multifunctional Material for Sensors and Smart Structures Technologies II Chair: Stefan Ioan Voicu		
10:20-10:45	B37: CuO@TiO ₂ based electrochemical sensor for methanol and glucose oxidation	Naveed Kausar Janjua Quaid-i-Azam University, Pakistan

10:45-11:10	B38: Cancer biomarker detection based on single crystalline graphene sensors	Peng Li Tsinghua University, China
11:10-11:35	B39: Self-assembly as a smart strategy to arrange electro- and photo-active organic molecules at surfaces	Lionel Patrone CNRS-IM2NP, Aix-Marseille University, France
11:35-12:00	B40: Photochemical nano-sensor for selective detection of chemical and biological molecules	Souad Ahmed Elfeky Cairo University-National Institute of Laser Enhanced Sciences, Egypt
12:00	Lunch Break	

Thursday Afternoon August 25, 2016 Room B		
Session: Functional Materials, Industrial & Commercial Applications Chair: Antonio Sellitto		
13:30-13:55	B41: Multi-functional hydrogels and Their Applications	Yong Mei Chen Xi'an Jiaotong University China
13:55-14:20	B42: Reducing energy in industrial processes with high temperature, by using microwaves	Julián Jiménez Reinoso The Institute of Ceramics and Glass, Spain
14:20-14:45	B43: Multifunctional properties of Cu-modified nitrogen doped titanium dioxide as visible-light sensitive photocatalyst for environmental purification	Takeshi Ohwaki Meijo University, Japan
14:45-15:15	B44: Nanofilm processors supplied by water harvesting in thin layers and its application	Christian Schoo University of Muenster, Germany
15:15-15:40	B45: Inspired by Nature: soft supra-molecular aggregates for robust light harvesting?	Dorthe Eisele The City University of New York, USA
15:40-16:00	Session Break	
Session: Multifunctional Nanocarriers & Biomedical Applications II Chair: Magdalena Prokopowicz		
16:00-16:25	B46: Biomaterials for inducing tissue regeneration	Qiqing Zhang Fuzhou University, China
16:25-16:50	B47: Multifunctional Cyclodextrin Derivatives in Imaging and Photodynamic Therapy	Milo Malanga Cyclodextrin Research & Development Laboratory, Hungary

16:50-17:15	B48: Hybrid Nanoparticles for Therapy and Diagnosis: Au Nano Prisms for Gastrointestinal Cancer	Jesus M de la Fuente University of Zaragoza, Spain
17:15-17:40	B49: Structural Health Monitoring of Civil Structures with piezoceramic transducers	Linsheng Huo Dalian University of Technology, China
17:40-18:05	B50: Fabrication of gold nanoshells with protein cores under mild and green conditions	Kwok Kei Lai The Hong Kong University of Science and Technology, Hong Kong
18:05-18:30	B51: Gelatin based nano and macro carriers for iontophoretic Insulin delivery	Shamayita Patra Jadavpur University, India
18:30	Dinner Social	

Thursday Morning August 25, 2016 Room C		
Session: Multifunctional Nanocarriers & Biomedical Applications III Chair: Ashok K. Kakkar		
08:00-08:25	C22: Hybrid PLGA/Au particles for concurrent drug delivery and medical imaging	Maciej Mazur University of Warsaw, Poland
08:25-08:50	C23: Multi-functional Nanostructured Surfaces for Cell Sensing and Separation	Peilin Chen Academia Sinica, Taiwan
08:50-09:15	C24: Toward colloidal complexes of chitosan for the inhibition of infection by the HIV-1 virus	Thierry Delair University of Lyon, France
09:15-09:40	C25: Multifunctional magnetic nanoparticles for therapy and diagnostics	Yuko Ichiyanagi Yokohama National University, Japan
9:40-10:05	C26: Designing the stimuli-sensitivity of micellar systems through a blending approach	Gaëlle Morandi INSA de Rouen, CNRS UMR 6270, France
10:05-10:20	Session Break	
Session: Multifunctional Nanocarriers & Biomedical Applications IV Chair: Iris Weitz		
10:20-10:45	C27: Hybrid Polyion Complexes as versatile medical imaging nanoprobe for multimodal imaging	Jean-Daniel Marty University of Paul Sabatier Toulouse, France

10:45-11:10	C28: Layer-by-layer assembled biopolymer nano-coatings for biomedical applications	Dmitry Volodkin Nottingham Trent University, UK
11:10-11:35	C29: Multifunctional, stimuli-responsive drug delivery using pH-responsive DNA functionalised nanoparticles	Dejian Zhou University of Leeds, UK
11:35-12:00	C30: Research Strategies for Mitigation of Nanotoxicity	Luigi Manzo University of Pavia, Italy
12:00	Lunch Break	

Thursday Afternoon August 25, 2016 Room C		
Session: Multifunctional Nanocarriers & Biomedical Applications V Chair: Qiqing Zhang		
13:00-13:30	B05: A phonon-hydrodynamic approach to thermal conductivity of Porous Si and Si-Ge quantum-dot super lattices	Antonio Sellitto University of Salerno, Italy
13:30-13:55	C31: Imaging and Therapy by CuO Nanoparticles	Iris Weitz ORT Braude College, Israel
13:55-14:20	C32: Au-Fe ₃ O ₄ @Mesoporous Silica Janus nanocarriers as flexible platform enabling multimodal imaging in theranostic cancer treatment	Marco Filice National Research Centre for Cardiovascular Disease (CNIC), Spain
14:20-14:45	C33: Nano engineered plasma polymer films for medical devices	Krasimir Vasilev University of South Australia, Australia
14:45-15:15	C34: Addressing Drug Delivery Challenges Using Multi-tasking Nano-carriers	Ashok K. Kakkar McGill University, Canada
15:15-15:40	C35: Bioactive silica-based nanomaterials for doxorubicin delivery: evaluation of structural properties associated with release rate	Magdalena Prokopowicz University of Gdańsk, Poland
15:40-16:00	Session Break	
18:30	Dinner Social	

August 26, 2016

One day Academic exchange & Excursion