

Tentative Programme

(as of 06/06/2017)

	Monday June 05, 2017	
14:00-15:00	Registration	
15:00-15:15	Opening Ceremony	
15:15-15:45	Luis Hueso (CIC nanoGUNE, Spain)	Κ
	Spin transport, spinterface and spin photovoltaics in molecular films	
15:45-16:00	Manoko Maubane (University of the Witwatersrand, South Africa)	0
	From Carbon Shells to Multipods- The role of nickel particle shape and size	
16:00-16:15	Petra Pötschke (Leibniz-Institut für Polymerforschung Dresden e.V., Germany)	0
	Polymer-SWCNT composites for recovering waste heat into electrical energy	
16:15-16:45	Mikhael Bechelany (IEMM-CNRS, France)	Κ
	Engineering of Interfaces for Preparing new Functional Materials	
16:45-17:30	Coffee Break	
17:30-18:00	Xiaodong Zhuang (Dresden University of Technology, Germany)	1
	2D Materials for supercapacitors	
18:00-18:15	Ye Liu (Dresden University of Technology, Germany)	0
	Doped Single-Walled Carbon Nanotubes for Flexible Thermoelectric Applications	
18:15-18:30	Xiaoyu Han (University College London, United Kingdom)	0
	A Targeted Functional Design for Highly Efficient and Stable Cathodes for Rechargeable	
	Li-Ion Batteries	
18:30-18:45	Lifeng Liu (International Iberian Nanotechnology Laboratory, Portugal)	0
	Monolithic Cobalt Phosphide Nanowire Electrodes for Efficient and Durable Water Splitting	
18:45-19:00	Siddik Icli (Ege University, Turkey)	0
	Photosynthesis; Miracle of Organic Life and its Technologies	

	Tuesday June 06, 2017	
09:00-09:30	Claudia Backes (Universität Heidelberg, Germany)	K
	Liquid-exfoliated transition metal dichalcogenides: from spectroscopic metrics to	
	functionalisation	
09:30-10:00	Ute Kaiser (Ulm University, Germany)	K
	Properties of two-dimensional materials by high-resolution low-voltage aberration-	
40.00.40.00	corrected TEM	
10:00-10:30	Andrey Turchanin (Friedrich Schiller University Jena, Germany)	K
40.20 44.00	Carbon-based van der Waals heterostructures of 2D materials Coffee Break & Poster session	
<u>10:30-11:00</u> 11:00-11:30	Xinliang Feng (Technische Universitaet Dresden, Germany)	K
11.00-11.30	Graphene and Organic 2D Materials: Grand Challenges and Opportunities	n
11:30-12:00	Francesco Bonaccorso (IIT-Graphene Labs / BeDimensional, Italy)	K
12:00-12:30	Vladimir Falko (National Graphene Institute, UK)	K
12.00 12.00	Electronic and optical properties of 2D atomic InSe crystals	
12:30-13:00	Thomas Heine (Universität Leipzig, Germany)	К
12.00 10.00	Two-dimensional crystals containing phosphorus	
13:00-14:30	Lunch	
	Parallel Session - Graphene Track A	
14:30-15:00	Marc Chaigneau (HORIBA Scientific, France)	
14.00 10.00	Tip Enhanced Optical Spectroscopy of 2D materials – from graphene to TMDCs	
15:00-15:15	Stephan Adam (SURAGUS GmbH, Germany)	0
10.00 10.10	Challenges and Insights by Electrical Characterization of Large Area Graphene Layers	Ŭ
15:15-15:30	Christophe Adessi (Université Claude Bernard Lyon I, France)	0
	First principle investigation on thermoelectric properties of transition metal	Ū
	dichalcogenides: Beyond rigid band model	
15:30-15:45	Alexei Nazarov (Lashkaryov Institute of Semiconductor Physics NASU, Ukraine)	0
	Electrical Conductivity and micro-Raman Sectroscopy of Graphene Layer Deposited on	
	SiO2 Dielectric and Subjected to Electron Beam Irradiation	
15:45-16:00	Michele Pisarra (Universidad Autónoma de Madrid, Spain)	0
	Graphene on SiO2 under ultrahigh pressure	
16:00-16:30	Coffee Break & Poster session	
16:00-16:30 16:30-17:00	Coffee Break & Poster session Paolo Bondavalli (Thales Research & Technology, France)	
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17:45-18:00	Dmitry Kvashnin (National University of Science and Technology MISiS, Russia)
	One-atom-thick 2D material based on CuO. Experimental observations and theoretical
	study

	Wednesday June 07, 2017	
09:00-09:30	Stefania D'Agostino (IIT, Italy)	K
	New Trends in Computational Plasmonics	
09:30-10:00	Xavier Bouju (CEMES / CNRS, France)	K
	Gold monolayer islands on a polar AIN(0001) surface	
10:00-10:30	Dmitry A. Ryndyk (University of Bremen, Germany)	1
	Atomistic nanoscale device modeling: charge and heat transport in large-scale systems	
10:30-11:00	Frank Ortmann (TU Dresden, Germany)	K
	Organic Semiconductors: Fundamentals and Applications	
11:00-11:30	Coffee Break & Poster session	
11:30-13:00	Poster session	
13:00-14:30	Cocktail Lunch (offered by TNT2017 organisers)	
14:30-15:00	Christian Joachim (CEMES/CNRS, France)	K
	One-way rotation of a single molecule-rotor	
15:00-15:30	Anne-Sophie Duwez (University of Liege, Belgium)	K
	Probing single molecules with AFM: Force, motion, dynamics, and function	
15:30-16:00	Francesca Moresco (TU Dresden, Germany)	K
	Mechanics with single molecules: Manipulation with the STM tip	
16:00-17:00	Coffee Break & Poster session	
17:00-17:30	Markus Maier (Scienta Omicron, Germany)	1
	Electrical Transport Measurements with Atomically Precise Probes	
17:30-18:00	Takashi Uchihashi (MANA-NIMS, Japan)	K
	Switchable supramolecular motors with surface chirality	
18:00-18:30	We-Hyo Soe (CEMES/CNRS, France)	K
	Controllable single molecule gear	
18:30-19:00	Danny Porath (The Hebrew University of Jerusalem, Israel)	K
	Novel DNA-Based Molecules and Their Charge Transport Properties	
20:30	Conference Dinner - Restaurant - Sophienkeller im Taschenbergpalais	
	Taschenberg 3 01067 Dresden – more info	

	Thursday June 08, 2017	
11:30-11:45	Adriana Szeghalmi (Friedrich Schiller University, Germany)	0
	Tailored nanoporous SiO2 thin films for antireflection coatings	
11:45-12:00	Mathias Schubert (University of Nebraska-Lincoln, United States)	0
	Hybrid Materials from Sculptured Thin Films and Applications	
12:00-12:30	Georg Johannes Schmidt (Martin-Luther-Universität Halle-Wittenberg, Germany)	Κ
	Nanopatterned complex oxides - key to new physics	
12:30-13:00	Philippe Leclère (University of Mons (UMONS), Belgium)	К
	About the Quantitative Mapping of the Mechanical Properties of Polymeric Materials at the	
40.00.44.00	Nanoscale	
13:00-14:30	Lunch	1
14:30-15:00	Lucia Delogu (University of Sassari, Italy)	
	New hight troughput technologies reveal the impact of nanomaterials with human primary	K
	immune cells	
15:00-15:15	Maria Emmeleia Gianneli (Attana AB, Sweden)	
	Towards prediction of in vivo behavior of nanoparticles: A QCM platform for	0
	characterization of nanoparticle - cell interactions in a complex biological milieu	
15:15-15:30	Nermin Seda Kehr (WWU-Münster, Germany)	0
	Bifunctional Porous Nanomaterials for Cell-Biomaterial Interaction Studies	
15:30-16:00	Benjamin Friedrich (Max-Planck Institute, Germany)	K
	Navigation at the micro-scale: Swimming, steering, synchronization of biological	
10.00.10.00	microswimmers	
16:00-16:30	Coffee Break & Poster session	
16:30-16:45	Larysa Baraban (Dresden University of Technology, Germany)	0
	Compact nanowire sensors probe emulsion droplets	_
16:45-17:00	Bergoi Ibarlucea (TU Dresden, Germany)	0
	Ebola biosensing with a gate controlled memristor mode	_
17:00-17:15	Nadia Licciardello (Technische Universität Dresden, Germany)	0
	Ultrasmall nanoparticles for bioapplications: potential in droplets based microfluidics	

17:15-17:30	Jorge Romero-Garcia (Centro de Investigacion en Quimica Aplicada, Mexico) Biomimetic Synthesis of Polyaniline Catalyzed by Hematine Supported on Graphitic Carbon Nitride	0
17:30-17:45	Cornelia Palivan (University of Basel, Switzerland)	0
	Design of artificial organelles by combining proteins with synthetic nanocompartments	
17:45-18:00	Olga Dement eva (Frumkin Inst. of Physical Chem. and Electrochemistry of RAS, Russia)	0
	Novel Drug-Templated Mesoporous Silica Nanocontainers and Protocells Based Thereon	

	Friday June 09, 2017	
	Parallel Session - PhD Students Track A	
09:00-09:15	Bushra Ali (Dundalk Institute of Technology, Ireland)	0
	Layer-By-Layer multilayer assembly of Graphene oxide with Keggin-type	
	Polyoxometalates for electrocatalysis of Chloroform	
09:15-09:30	Andrzej Chalupniak (Catalan Inst. of Nanoscience and Nanotechnology (ICN2), Spain)	0
	Toward integrated detection and graphene-based removal of contaminants in a lab-on-a-	
	chip platform	
09:30-09:45	Muhammad Ilyas (Brunel University London, United Kingdom)	0
	Structural Analysis of Plasma Exfoliated Graphene Nanoplatelets (GNPs) for the	
00.45 40.00	Development of Nano-Cementitious Composites	~
09:45-10:00	Sandeep Kumar Jain (Utrecht University, Netherlands)	0
40.00 40.45	Graphene mechanics: defects, buckling and domain growth	~
10:00-10:15	Silvan Kretschmer (Helmholtz-Zentrum Dresden-Rossendorf, Germany)	0
10:15-10:30	The mystery of semiconductor to metal phase transition in MoS2 under electron beam Narek Margaryan (National Polytechnic University of Armenia, Armenia)	0
10.15-10.30		0
10:30-11:30	The Study of Physical Properties of Self-Assembled Graphene Coffee Break	
11:30-11:45	Leonardo Medrano Sandonas (Dresden University of Technology, Germany)	0
11.30-11.45	Phononics in two-dimensional materials	0
11:45-12:00	Arevik Musheghyan Avetisyan (Universitat de Barcelona, Spain)	0
11.45-12.00	Direct low temperature growth of vertically oriented graphene nanowalls on multiple	0
	substrates by Low Temperature Plasma-Enhanced Chemical Vapor Deposition	
12:00-12:15	Jae Hoon Yang (Daegu Gyeongbuk Institute of Science and Technology (DGIST), Korea)	0
12.00 12.10	Geometrically Enhanced Asymmetric I-V Characteristics in Graphene Tunneling Diode	Ŭ
12:15-12:30	Sheng Yang (Technische Universitaet Dresden, Germany)	0
12.100 12.000	Electrochemical Exfoliation of Layered Conductive Materials	Ŭ
	Parallel Session - PhD Students Track B	
09:00-09:15	Yuki Nakata (Tohoku University, Japan)	0
00.00 00.10	Discovery of 2D Mott insulating phase in 1T-NbSe2 atomic layer	Ŭ
09:15-09:30	Martin Hartmann (University of Technology, Germany)	0
	Performance enhancement of carbon nanotube FETs via polymer-based doping control	•
09:30-09:45	Stephanie Klinghammer (TU Dresden, Germany)	0
	Multiplexed sensing of steroids with silicon nanowire field effect transistors	
09:45-10:00	João Albuquerque (REQUIMTE/UCIBIO/FFUP, Portugal)	0
	Bypassing the rumen using lipid nanoparticles	
10:00-10:15	Fernando Jiménez (IMDEA Nanociencia, Spain)	0
	Innovative Patterning Method for Modifying few-layer Mos2 Device Geometries	
10:15-10:30	Mark-Robert Kalus (University of Duisburg-Essen, Germany)	0
	Ligand-free nanoparticles made by scalable laser synthesis for catalysis applications	
10:30-11:30	Coffee Break	
11:30-11:45	Seunguk Kim (Daegu Gyeongbuk Institute of Science and Technology (DGIST), Korea)	0
	Optimizing geometric factors of nano-hole arrays for Label-free bio-detection	
11:45-12:00	Jens Natterodt (Adolphe Merkle Institute, University of Fribourg, Switzerland)	0
	Polymer Nanocomposites with Cellulose Nanocrystals made by Coprecipitation	
12:00-12:15	Eunhye Baek (TU Dresden, Germany)	0
	Multiplexed Synaptic Modulation and Memory in Ionic Film-coated Si Nanowire Transistors	
12:15-12:30	Álvaro Díaz Fernández (Universidad Complutense de Madrid, Spain)	0
	Tailoring Fermi's velocity in topological insulators by an electric field	
12:30-14:00	Lunch	

14:00-14:15	Daniel E. Bürgler (Forschungszentrum Jülich, Germany)	0
	Intramolecular variation of spin-polarization within single molecule-surface hybrid	
14:15-14:30	Martyna Pingot (Lodz University of Technology, Poland)	0
	New cross-linking method of halogenated butyl rubber nanocomposites	
14:30-14:45	Lars Rebohle (Helmholtz-Zentrum Dresden-Rossendorf, Germany)	0
	Millisecond annealing for the nanoscale	
14:45-15:00	Zikhona Tetana (University of the Witwatersrand, South Africa)	0
	Nitrogen and Boron doping Effects in Carbon Nanospheres	
15:00-15:15	Kumud Malika Tripathi (Gachon University, Korea)	0
	Multifunctional Water Soluble Carbon Nano Onions from Flaxseed Oil for Visible Light	
	Induced Photocatalytic Applications and Label Free Detection of Al(III) Ions	
15:15-15:30	Hender Lopez (University College Dublin, Ireland)	0
	Using single nanoparticle tracking to simultaneosly characterize nanoparticle size	
	distribution and nanoparticle-surface interactions	
15:30	CONCLUDING REMARKS	
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Com	CONCLUDING REMARKS plex Nano Materials Special Session: The Chair of Materials Science & Nanotechnology	
Com 15:45-15:50	CONCLUDING REMARKS plex Nano Materials Special Session: The Chair of Materials Science & Nanotechnology Welcome	
Com 15:45-15:50 15:50-16:00	CONCLUDING REMARKS plex Nano Materials Special Session: The Chair of Materials Science & Nanotechnology Welcome Gianaurelio Cuniberti (TU Dresden, Germany) - Opening remarks	
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