EuroSciCon Conference on

NANOTECHNOLOGY & SMART MATERIALS



October 04-06, 2018
Amsterdam, Netherlands

EuroSciCon

https://nanotechnology.euroscicon.com/
https://smartmaterials.euroscicon.com/

Agenda Day 1: October 04, 2018

08:00-08:30 **Registrations**

08:30-08:55 Opening Ceremony

08:55-09:00 **Introduction**

Session Start @ Meeting Place 1

Keynote Presentations

09:00-09:30
Title: Microfluidics-enabled Structures for Manipulating Liquids
Liqiu Wang, University of Hong Kong, Hong Kong

09:30-10:00
Title: Innovative Wave Power Generator System Using Dielectric Elastomer
Seiki Chiba, Chiba Science Institute, Japan

10:00-10:30
Title: Graphene based platforms for biosensing and enhanced optical imaging
Alicia de Andres, Materials Science Institute of Madrid, Spain

10:30-11:00
Title: Photo-Atomic-Layer-Etching: an innovative tool for nanostructuring of quantum semiconductor microstructures
Jan J Dubowski, University de sherbrooke, Canada

Group Photo : 11:00-11:05

Networking & Refreshments 11:05-11:20 @ Pre Function Area

Plenary Session

Nano Fluidics | Nanoscience and Technology | Graphene and its Applications | Nano Composites | Nano Medicine | Nano Materials Synthesis and Characterisation | Materials Science and Engineering Physics | Smart Materials and Technologies

Session Chair: Jinping Suo, Huazhong University of Science and Technology, China

Session Co-Chair: Hongwei Zhu, Tsinghua University, China

11:20-11:45
Title: Shape Memory Behavior and Their applications of Bio-based Fibers
Jinlian Hu, The Hong Kong Polytechnic University, China

11:45-12:10
Title: Graphene NEMS technology for extreme sensing and nano thermal engineering
Hiroshi Mizuta, Japan Advanced Institute of Science and Technology, Japan

12:10-12:35
Title: Microtubular nanomembrane devices: From nanophotonics to nanorobotics
Oliver G Schmidt, IFW Dresden, Germany

12:35-13:00
Title: Nanoparticles Tailored High Voltage Insulation Materials
Jinliang He, Tsinghua University, China

13:00-13:25
Title: Novel Perspectives in Nanomedicine: example of engineered nanoparticles for breast cancer therapy
Macarena Peran, University of Jaen, Spain

Lunch Break 13:25-14:00 @ The Gallery

Special Workshop Session @ 14:00 - 15:20

Nanotechnology based solutions for enhanced products and processes in existing industrial manufacturing plants

Session Chair: Elena Melotti, Warrant Group S.r.l. - Gruppo Tecnoinvestimenti, Italy

14:00-14:20
Title: IZADI-NANO2INDUSTRY: an H2020 project to impulse the uptake of nanotechnology based solutions
Cristina Elizetxea, TECNALIA, Spain
Maider Garcia de Cortazar, TECNALIA, Spain
Isella Vicini, Warrant Group S.r.l. – Gruppo Tecnoinvestimenti, Italy

14:20-14:40 **Title: Nanoreinforced thermoplastic based on masterbatches and inserts with nanotextured surfaces for injection moulds**

Mario Ordonez, MAIER Technology Centre, Spain
Alicia Johansson, NIL Technology ApS, Denmark

14:40-14:50 **Title: Nano-reinforcements added and dispersed via master-pellets in a new, low cost and safe gravity casting process**

Pedro Egizabal, TECNALIA, Spain

14:50-15:10 **Title: Nanostructured powders for metallic cermet coatings and thermal spray technology for solid state deposition**

Maria Parco, TECNALIA, Spain
Riccardo Borghini, Bonfiglioli Riduttori, Italy

15:10-15:20 **Title: Industrialization challenges**

Angel Hernán, SISTEPLANT, Spain
Nagore García, SEMATEC, Spain

Plenary Session continues

15:20-15:45 **Title: Ultra-sensitive Graphene Sensors for IoT Applications**

Hongwei Zhu, Tsinghua University, China

15:45-16:10 **Title: Diversification of Nanowire Building Blocks by Post-synthesis Modifications; Monolayer Doping & Self-processing Synthesis**

Roie Yerushalmi, The Hebrew University, Israel

16:10-16:35 **Title: How to: GMP manufacturing of nanomedicines for clinical trials**

Silvie Meeuwissen, ChemConnection, Netherlands

Networking & Refreshments 16:35-16:50 @ Pre Function Area

16:50-17:15 **Title: Nanotechnology, cementitious nanocomposites and restoration materials**

Styliani Papatzani, University of Brighton, UK

17:15-17:40 **Title: Printing Nanostructures on Contact Lenses for Wearable Diagnostics**

Haider Butt, University of Birmingham, UK

Speaker Session

17:40-18:00 **Title: Nanostructured sensors for colorectal cancer screening device**

Giulia Zonta, University of Ferrara, Italy

18:00-18:20 **Title: Bare eye detection based on gold nanoparticles as alternative for traditional analytical methods**

Essy Kouadio Fodjo, Felix HOUPHOUET-BOIGNY University, Cote dIvoire

Agenda Day 2: October 05, 2018

Keynote Presentations

09:00-09:30 **Title: Bioinspired wettability surfaces: Development in micro- and nanostructures**

Yongmei Zheng, Beihang University (BUAA), Beijing, China

09:30-10:00 **Title: Nanomaterials for transparent electrodes: properties, challenges and prospects**

Daniel Bellet, Grenoble University France

10:00-10:30 **Title: Vacancy-mediated self- and inter-diffusion in intermetallics: Kinetic Monte Carlo simulation**

Rafal Kozubski, Jagiellonian University, Poland

10:30-11:00 **Title: Thymoquinone-Based Nanoformulations for Cancer Treatment**

Hala Gali-Muhtasib, American University of Beirut, Lebanon

Networking & Refreshments 11:00-11:15 @ Pre Function Area

Plenary Session

Advanced Nanomaterials | Nano Medicine | Nanotech for Energy and Environment | Nano Composites | Nanoscience and Technology | Nanotechnology in Agriculture and Food Industry | Material science and Engineering Physics | Materials for Energy and Environmental Sustainability | Physics and Chemistry of Materials | Emerging Smart Materials | Nanomaterials and Nanotechnology | Smart Biomaterials and Medical Devices | Market Demand and Value | Mechanics, Characterization Techniques and Equipments

Session Chair: Alojz Ivankovic, University College Dublin, Ireland

Session Co-Chair: Jaehwan Kim, Inha University, South Korea

11:15-11:40 **Title: The Quasi-Solid State Single-Atom Transistor: Perspectives for Quantum Electronics at Room Temperature**

Thomas Schimmel, Karlsruhe Institute of Technology, Germany

11:40-12:05 **Title: Effect of different nitride nano-particles on the hydrogen permeability of N-ODS steel**

Jinping Suo, Huazhong University of Science and Technology, China

12:05-12:30 **Title: Cellulose based Smart Materials for Future Technology**

Jaehwan Kim, Inha University, South Korea

12:30-12:55 **Title: Bulk Nanostructured Materials produces by severe plastic deformation – science and applications**

Daria Setman, University of Vienna, Austria

12:55-13:20 **Title: Tomographic and chemical analysis of the lipid vesicles inside bacteria for biofuel production by a new multi-frequency UA-AFM-IR platform**

Eric Lesniewska, University of Bourgogne, France

Lunch Break 13:20-13:50 @ The Gallery

13:50-14:15 **Title: Nanostructured catalysts for CO2 reduction**

Angelica Chiodoni, Istituto Italiano Di Tecnologia, Italy

14:15-14:40 **Title: Selective Laser Processing of Metal Nanomaterials for Flexible and Stretchable Electronics Applications**

Seung Hwan Ko, Seoul National University, South Korea

14:40-15:05 **Title: Thin and ultrathin protective coatings – multifunctional and industrial**

Vaino Sammelselg, University of Tartu, Estonia

15:05-15:30 **Title: Tailoring the properties of structural adhesives and fibre reinforced plastics using nano-additives**

Alojz Ivankovic, University College Dublin, Ireland

15:30-15:55 **Title: Implementation of an Analytical Methodology to Assess the Fraction of TiO2 Nanoparticles in Food Additive E171 by EM and SP-ICP-MS**

Eveline Verleysen, Sciensano Research Institute, Belgium

15:55-16:20 **Title: Nanodielectrics for High-Temperature Film Capacitors**

Qi Li, Tsinghua University, China

Networking & Refreshments 16:20-16:35 @ Pre Function Area

16:35-17:00 **Title: Glucose Sensor Using Microwave Sensing Technique**

Poonam Agarwal, Jawaharlal Nehru University, India

17:00-17:20 **Title: Mixed monolayer and PEG Linker Functionalised Gold Nanoparticles**

Dorian Dixon, Ulster University, Ireland

17:25-17:50 **Title: Deep Learning for MEMS**

Ankit Agarwal, Mobileum India Private Ltd., India

Young Researchers Forum

17:50-18:05 **Title: Evaluation of an EM- and SP-ICP-MS-based methodology to characterize the nano-sized fraction of particles in food additive E174**

Sandra De Vos, Sciensano Research Institute, Belgium

Poster Presentation 18:05-18:20 @ Pre Function Area

NSM-01 **Title: Detection of nuclear material with moisture concent by using LIBS technique**

Seunghyun Kim, Korea Radioactive Waste Agency, Korea

NSM-02 **Title: The Control Mechanism of Nano SiO2/Epoxy Composite Coating on Surface Charge in Epoxy Resin**

Youping Tu, North China Electric Power University, China

Agenda Day 3: October 06, 2018

Keynote Presentations

09:00-09:30 **Title: Wind tunnel test of dielectric elastomer actuator for Mars airplane**

Koji Fujita, Tohoku University, Japan

09:30-10:00 **Title: Soft Two-Dimensional Nanomaterials at Biointerfaces**

Mohsen Adeli, Free University of Berlin, Germany

Plenary Session

Smart Structures | Smart Materials in Industrial Application | Nanotech for Energy and Environment | Nanoscience and Technology | Materials Science and Engineering Physics | Advanced Nanomaterials | Nano Medicine | Ceramics and Composite Materials | Graphene and 2D Materials

Session Chair: Thomas Schimmel, Karlsruhe Institute of Technology, Germany

Session Co-Chair: Daria Setman, University of Vienna, Austria

10:00-10:25	**Title: The Salvinia Effect: Perspectives for Drag Reduction and Antifouling Using a Permanent Layer of Air Under Water** **Thomas Schimmel,** Karlsruhe Institute of Technology, Germany
10:25-10:50	**Title: Assessment of representative material properties of ceramic materials through inverse analysis** **Vladimir Buljak,** University of Belgrade, Serbia
10:50-11:15	**Title: A concept of double layer capacitance motivated by nanotechnology** **Jingyuan Chen,** University of Fukui, Japan
11:15-11:40	**Title: Widefield confocal microscope for surface wave k-vector measurement** **Suejit Pechprasarn,** Rangsit University, Thailand

Networking & Refreshments 11:40-12:00 @ Pre Function Area

Speaker Session

12:00-12:20	**Title: A magnetic SERS probe fabrication & in cell** **Huanhuan Feng,** Harbin Institute of Technology, China
12:20-12:40	**Title: Tumor Vascular Embolization Therapy Triggered via BBR Nanoparticle Aggregation** **Tingting Zheng,** Peking University, China
12:40-13:00	**Title: The Effect of Magnetic Resonance Imaging (MRI) on Some Properties of Acrylic Resin Denture Base Materials** **Ahmed I. AL-Khyet,** Mosul University, Iraq
13:00-13:20	**Title: Strengthening of Prestressed Steel–Concrete Composite Beams Using Carbon Fiber tendons (Parametic study)** **Ahmed Elbelbisi,** Zagazig University, Egypt
13:20-13:40	**Title: Structural Health Monitoring Based on Wave Propagation Pattern in Space Frame Structures** **Mohammad Tahay Abadi,** Aerospace Research Institute, Iran
13:40-14:00	**Title: Green synthesis of iron oxide nanorods from deciduous Omani mango tree leaves for heavy oil viscosity treatment** **Majid Al-Ruqeishi,** Sultan Qaboos University, Oman

Lunch Break 14:00-15:00 @ The Gallery

Panel Discussion & Closing Ceremony



Mark your calender

EuroSciCon Conference on

Nanotechnology

July 08-10, 2019
Prague, Czech Republic

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