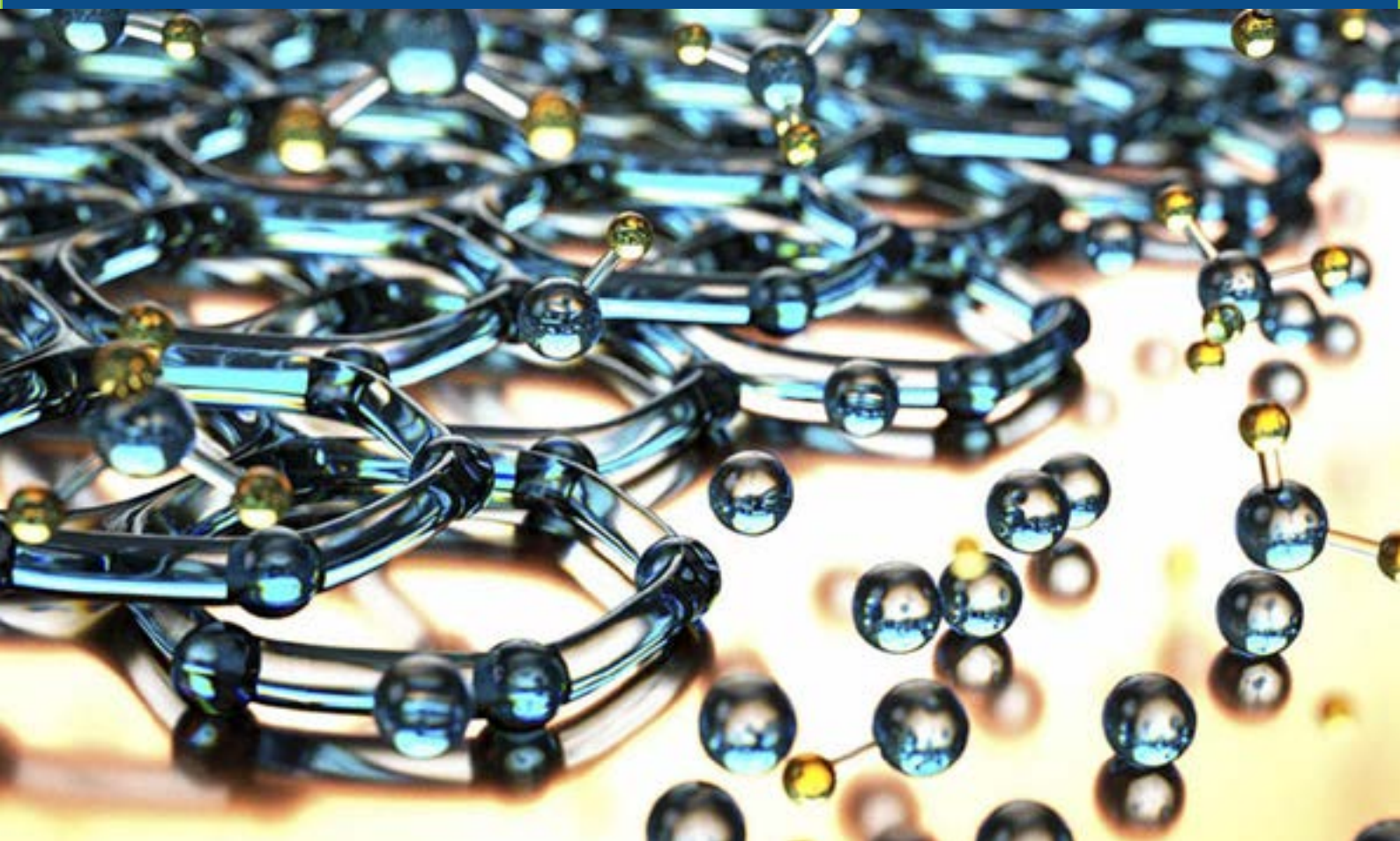


Tentative Program

16th International conference on

Emerging Materials and Nanotechnology

March 22-23, 2018 London, UK



Interactive
Sessions

Keynote
Lectures

Plenary
Lectures

Workshops

Exhibitors

B2B
Meetings

For available speaker slots

emergingmaterialscongress@annualconferences.org

Emerging Materials Congress 2018

16th International Conference on Emerging Materials and Nanotechnology

March 22-23, 2018 London, UK

Program at A Glance

Day 1

Morning Sessions	Reception/Registration	08.00-09.00	
		Time	General Session
		09.00-09.15	Inaugural Address
	3 Keynote/Plenary Talks	09.15-09.45	Keynote/Planery talk 1
		09.45-10.15	Keynote/Planery talk 2
		10.15-10.45	Keynote/Planery talk 3
	Panel Discussions/Group Photo		
	Coffee/Tea Break 10.45-11.00 (Networking)		
	11.00-12.40	➤ Materials Science and Engineering ➤ Materials Chemistry and Physics ➤ Surface Science and Engineering	
Evening Sessions			
	Lunch Break 12.40-13.30		
	13.30-15.30	➤ Emerging Materials for Energy Storage ➤ Materials and Devices ➤ Energy Materials	
	Coffee/Tea Break 15.30-15.45 (Networking)		
	15.45-17.25	Workshop	

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emergingmaterialscongress@materialsconferences.org

Day 2				
Morning Sessions		Time	Session 1	Session 2
	09.00-10.40		Keynote Forum	
	Coffee/Tea Break 10.40-10.55 (Networking)			
	10.55-12.35	Biomaterials and Tissue Engineering		Nanotechnology in Materials Science & Polymer Technology
Evening Sessions	Lunch Break 12.35-13.25			
	13.25-15.05	Mining and Metallurgy		Electrical, Optical and Magnetic Materials
	Coffee/Tea Break 15.05-15.20 (Networking)			
	15.20-17.00	Materials Application & Materials Characterization		Next Generation Materials Advanced Emerging Materials
Poster presentation @ 17.00-18.00				
	Awards & Closing Ceremony			
NOTE: Program Schedule is subject to change with final allotment of the speaker slots				

For Scientific program: <http://emergingmaterials.materialsconferences.com/scientific-program>

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Conference Highlights

- Materials Science and Engineering
- Materials and Devices
- Emerging Materials for Energy Storage
- Next-Generation Materials Nanotechnology in Materials Science
- Energy Materials
- Mining and Metallurgy
- Surface Science and Engineering
- Biomaterials and Tissue Engineering
- Materials Characterization
- Polymer Technology
- Electrical, Optical and Magnetic Materials
- Materials Chemistry and Physics
- Advanced Materials
- Materials Applications

For detailed sessions, please visit: <http://emergingmaterials.materialsconferences.com/>

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Register online: <http://emergingmaterials.materialsconferences.com/registration.php>



Glimpses of Materials Congress 2017



BEST TOURIST ATTRACTIONS IN LONDON, UK



Natural History Museum



Coke rings



Royal Albert Hall



Natural History Museum



National Gallery of London



Tower of London



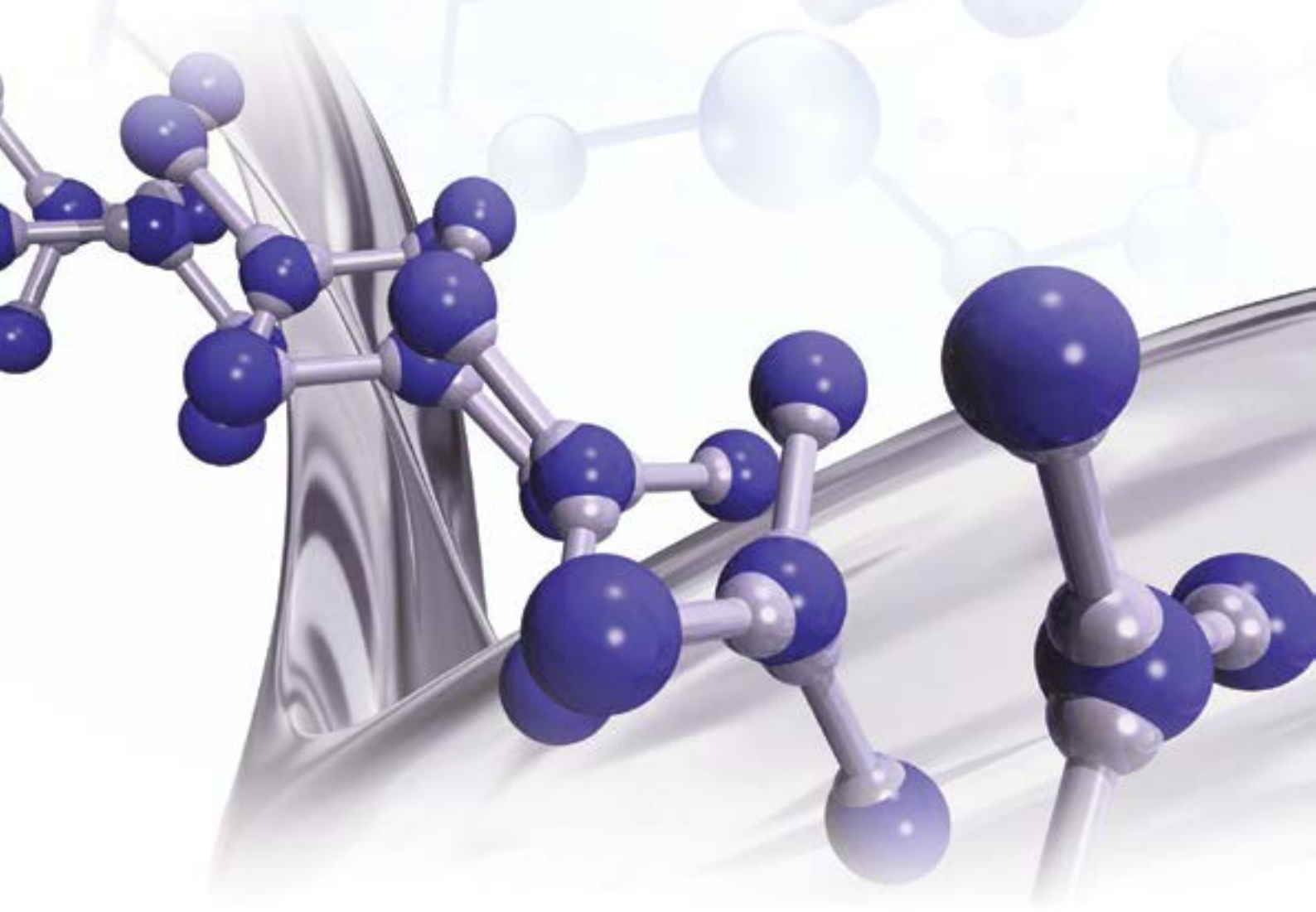
Tower Bridge

SCIENTIFIC PROGRAM

10th International Conference on

EMERGING MATERIALS & NANOTECHNOLOGY

July 27-29, 2017 | Vancouver | Canada



Conference Series - America

One Commerce Center-1201, Orange St. #600, Wilmington, Zip 19899, Delaware, USA P: +1-702-508-5200, F: +1-650-618-1417

Conference Series - UK

Kemp House, 152 City Road, London EC1V 2NX Toll Free: +1-800-216-6499

West Minster South

conference**series**.com

Opening Ceremony

Keynote Forum

Title: Small things offer big promise

Carlo Montemagno, University of Alberta, Canada

Title: Progress in semiconductor materials and processes for printed transistors

Beng S Ong, Hong Kong Baptist University, Hong Kong

Networking & Refreshments Break

Jas Pal Badyal, Durham University, United Kingdom

Title: Probing the nano-scale with the use of Nano-Opto-Mechatronics Instruments (NOMI)

Hamed Sadeghian, TNO, Netherlands

Workshop

Title: Emerging nano-porous metal-organic frameworks materials for applications related to energy efficiency and environmental sustainability

Youssef Belmabkhout, KAUST, Saudi Arabia

Sessions: Materials and Devices | Nanotechnology & Emerging Technologies

Session Chair: Anton Liopo, The University of Texas MD Anderson Cancer Center, USA

Session Chair: Jingyang Wang, Chinese Academy of Sciences, China

Session Introduction

Title: Gold-based emerging nanomaterials for imaging and experimental cancer therapy

Anton Liopo, The University of Texas MD Anderson Cancer Center, USA

Title: Strategic modification of nanostability for super thermal insulating materials

Jingyang Wang, Chinese Academy of Sciences, China

Lunch Break

Title: Engineering graphene and TMDCs for nanoelectronic device applications

Moon-Ho Ham, Gwangju Institute of Science and Technology (GIST), South Korea

Title: Nanocarbon composites for mechanical and barrier applications

Ken Bosnick, National Research Council Canada, Canada

Title: Developing nanostructured materials for harvesting more photons

Dongling MA, Institut National de la Recherche Scientifique (INRS), Canada

Title: Plasmon-enhanced optoelectronic devices based on metal nanostructures

Lin Jiang, Soochow University, China

Title: To explore nano world and material structure stress by X-ray nano probe at Taiwan photon source

Shao-Chin Tseng, National Synchrotron Radiation Research Center, Taiwan

Title: Microneedle bio-sensor: Direct, label-free, real time detection of pH in biological cells

Ganesh Kumar Mani, Tokai University, Japan

Title: Bacteria can enhance mechanical strength of a porous medium

Swayamdipta Bhaduri, University of Alberta, Canada

Panel Discussion

Networking & Refreshments Break

Sessions: Biomaterials and Bioinspired Materials | Emerging Materials for Energy Storage | Metals and Mining

Session Chair: Samuel Frimpong, Missouri University of Science and Technology, USA

Session Chair: Aman Ullah, University of Alberta, Canada

Title: Tire rubber material characterization for effective structural and fatigue modeling and analysis

Samuel Frimpong, Missouri University of Science and Technology, USA

Title: Rapid conversion of lipids into biopolymers and conjugates

Aman Ullah, University of Alberta, Canada

Title: Hydroxyapatite–heparin–BMP-2 on modified titanium surfaces enhances the efficacy of bone formation and osseointegration: *in vitro* & *in vivo* study

Deok-Won Lee, Kyung-Hee University, South Korea

Title: DEM modeling of oil sands materials structures

Samuel Frimpong, Missouri University of Science and Technology, USA

Title: Modifying titanium surfaces with nano-sized hydroxyapatite and simvastatin can enhance bone formation and osseointegration

Deok-Won Lee, Kyung-Hee University, South Korea

Title: Nano-Si: With good performance in solar cells and lithium ion batteries

Zhihao Yue, Nanchang University, P.R. China

Panel discussions | Memento Presentation to Organizing Committee Members

Day 2 July 28, 2017

West Minster South

Sessions: Advanced Emerging Materials | Materials: Characterization and Applications | Coatings and Surface Engineering

Session Chair: Matheus F A Goosen, Alfaisal University, Saudi Arabia

Session Chair: Krzysztof Z Sokalski, Czestochowa University of Technology, Poland

Keynote Forum

Registrations and Introduction

Title: Digital etching of III-V semiconductors in aqueous solutions

Jan J Dubowski, Université de Sherbrooke, Canada

Networking & Refreshments Break

Title: Ni-based nanomaterials for high efficiency supercapacitors in energy storage

Hao Gong, National University of Singapore, Singapore

Title: Suspension thermal sprayed nanocomposite WC-Co coatings: Nanoindentation assessment

Matheus F A Goosen, Alfaisal University, Saudi Arabia

Title: Scaling a way for revealing self-similar features of materials and new applications

Krzysztof Z Sokalski, Czestochowa University of Technology, Poland

Title: Laser assist break of hard and brittle materials

Etsuji Ohmura, Osaka University, Japan

Title: Self-organized periodic nanostructures on the surfaces of semiconductors and dielectrics by scanning femtosecond laser pulses

Ki-Soo Lim, Chungbuk National University, Korea

Title: Lanthanides-redox ligands for single molecule magnets and luminescence

Lahcène Ouahab, CNRS, Université de Rennes 1, France

Lunch Break

Title: Crystal growth of Na-Si clathrates by the flux method

Haruhiko Morito, Tohoku University, Japan

Title: Microstructure and surface properties of Ti-6Al-4V cold spray coated with SiC-based cermet

Isaac D Adebisi, Vaal University of Technology, South Africa

Title: Facile fabrication of hybrid copper-fiber conductive features with enhanced durability and ultra-low sheet resistance for low-cost high-performance paper-based electronics

Tengyuan Zhang, Western University, Canada

Panel Discussion

Poster Presentation

- EM17 01** Title: **New bone formation & fusion relevant to timing of cranioplasty via frozen autologous bone flaps in rabbits: a preliminary report using micro-CT scans & tissue staining analysis**
Deok-Won Lee, Kyung-Hee University, South Korea
- EM17 02** Title: **Au, Ag, and TiO₂ green synthesis and applications as antibacterial for both gram positive and gram negative strain**
Nada E Omer, University of Dammam, Saudi Arabia
- EM17 03** Title: **Number of layer dependent direct optical transition from monolayer to pentalayer in synthesized large area MoSe₂**
Jae-Hun Jeong, Yonsei University, South Korea
- EM17 04** Title: **Fabrication of multiplexed plasmonic nanoparticle structures based on AFM lithography**
Jianmei Chen, Soochow University, China
- EM17 05** Title: **The effect of preparation conditions on the ion-exchange properties of LTA zeolite prepared from local silica**
Samia Kosa, King Abdulaziz University, Saudi Arabia
- EM17 06** Title: **Bone regeneration enhanced by using a Gold nanoparticle–hydrogel complex**
Deok-Won Lee, Kyung-Hee University, South Korea
- EM17 07** Title: **One step room temperature green synthesis of Au nanoparticles via gallic acid**
Mustafa Can, Sakarya University, Turkey
- EM17 08** Title: **Synthesis and characterization of hematite nanoparticles for arsenite removal from aqueous medium**
Herlys Viltres Cobas, Centro de Investigación en Ciencia Aplicada y Tecnología, Mexico
- EM17 09** Title: **Multifunctional nanoparticles composed of a mixed ferrite core and a mesoporous silica shell for RGD peptide to target $\alpha (v) \beta (3)$ integrin in cancer therapy and diagnosis**
Susel Del Sol Fernandez, Centro de Investigación en Ciencia Aplicada y Tecnología, Mexico

Best Poster Award Presentation

Memento Presentation to Organizing Committee Members

Networking & Refreshments Break

Day 3 July 29, 2017

West Minster South

Sessions: Advanced Emerging Materials | Materials: Characterization and Applications | Coatings and Surface Engineering

Session Chair: Klaus G Nickel, University Tübingen, Germany

Session Chair: David Kennedy, National Research Council of Canada, Canada

Title: The potential of improving building construction materials by a biomimetic approach

Klaus G Nickel, University Tübingen, Germany

Title: Quantifying the biological fate of nanosilver

David Kennedy, National Research Council of Canada, Canada

Networking & Refreshments Break

Title: Photochromic organic field-effect transistors: Molecules, device properties and laser patterning of circuits
Yutaka Wakayama, National Institute for Materials Science (NIMS), Japan

Title: A bioinspired strategy for immobilizing silver nanoparticles towards the synthesis of antimicrobial paper
Md.Shafiul Azam, University of Alberta, Canada

Title: Effects of the chemical composition of coal tar pitch on the baking zone temperature in Soderberg electrode systems

Lay Shoko, Vaal University of Technology, South Africa

Title: Growth, structural and electrical properties of VO₂/ZnO nanostructures

Sang-Wook Han, Jeonbuk National University, South Korea

Title: Temperature-dependent hard X-ray excited optical luminescence to study the optical properties of the ZnO microwires

Bi-Hsuan Lin, National Synchrotron Radiation Research Center, Taiwan

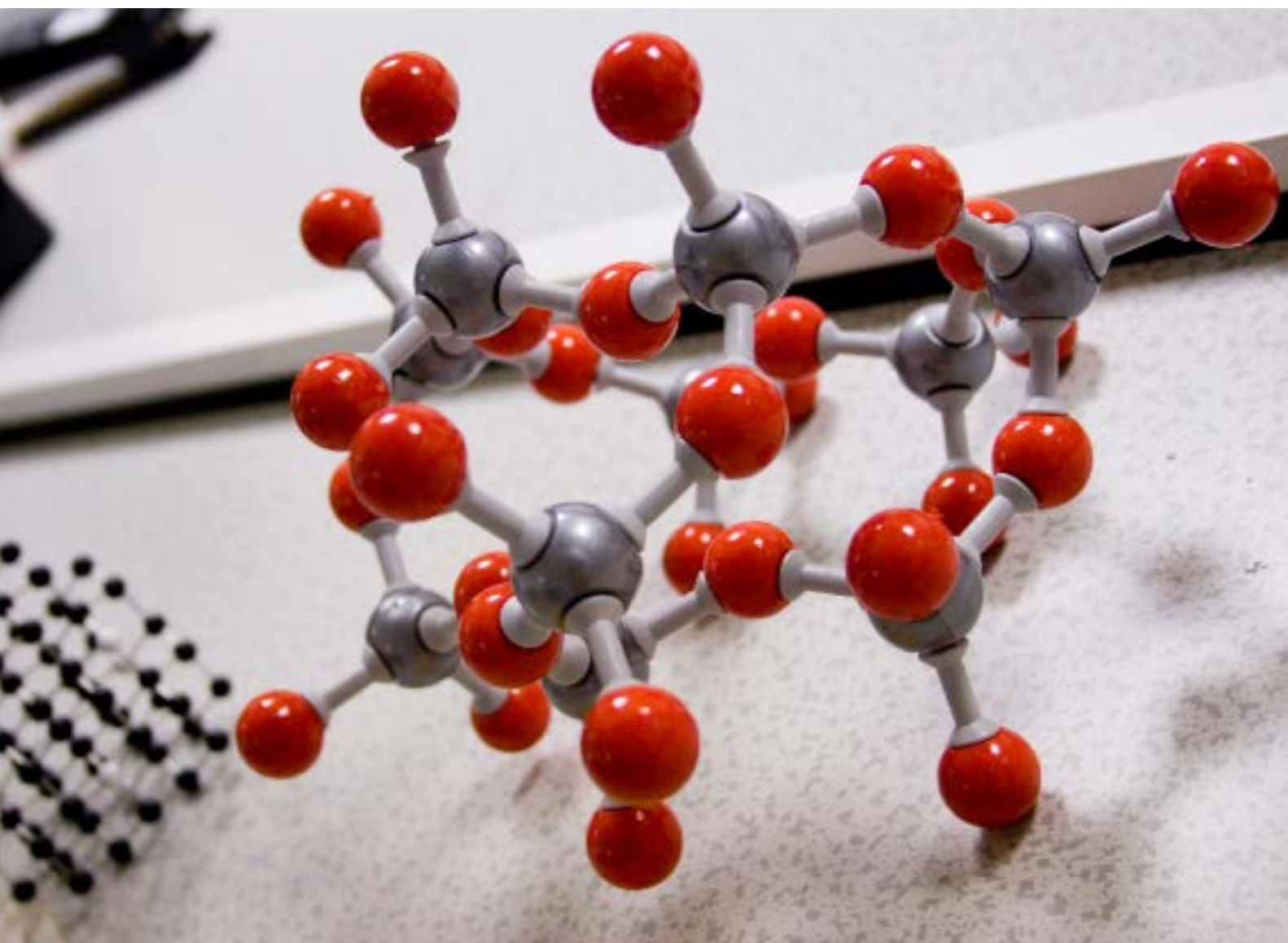
Panel Discussion | Awards & Closing Ceremony

Lunch Break

9th World Congress on

Materials Science and Engineering

June 12-14, 2017 Rome, Italy



Conference Series -America

One Commerce Center-1201, Orange St. #600, Wilmington, Zip 19899, Delaware, USA
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Conference Series -UK

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Toll Free: +0-800-014-8923

Olimpica 1

conference**series**.com

Opening Ceremony

Keynote Forum

Introduction

New ways of vision: Protein structures in translational medicine and business development - My experience**Robert Huber**, Nobel Laureate, Chemistry 1988**Nanogenerators for self-powered systems and piezotronics for artificial intelligence****Zhong Lin Wang**, Georgia Institute of Technology, USA**Sessions: Materials Science and Engineering | Metals, Metallurgy and Materials****Session Chair: Nekane Guarrotxena**, Spanish National Research Council (CSIC), Spain**Session Co-Chair: Augusto Di Gianfrancesco**, Consultant, Rome Area, Italy

Session Introduction

Title: Building up smart optical “organic-inorganic” nanosystems**Nekane Guarrotxena**, Spanish National Research Council (CSIC), Spain**Title: Materials for advanced ultra-super critical power plants****Augusto Di Gianfrancesco**, Consultant, Rome Area, Italy

Networking & Refreshments Break

Title: Helical light induced chiral surface relief in azo-polymer thin film**Takashige Omatsu**, Chiba University, Japan**Title: Multi-scale deformation analysis in a thermoplastic polyurethane****Alexander M Korsunsky**, University of Oxford, UK**Title: Proposed link between the periodic table and the standard model****John Roberts**, University of Liverpool, UK**Title: Fine-controlled subnano-metal particles in a dendrimer reactor****Kimihisa Yamamoto**, Tokyo Institute of Technology, Japan**Title: Structure and dynamics of polymer materials at the single molecule scale studied by novel fluorescence microscopy techniques****Hiroyuki Aoki**, Japan Atomic Energy Agency, Japan**Title: Development of highly stretchable conductive fiber and fiber-based electronic sensors for textile electronics****Taeyoon Lee**, Yonsei University, Republic of Korea

Lunch Break

Title: Finite-element analysis of velocity mode transition of crack propagation in rubber materials**Atsushi Kubo**, University of Tokyo, Japan**Title: Light driven directional mass transport of azo-benzene containing materials for complex tri-dimensional structures on surfaces****Stefano L. Oscurato**, University of Naples Federico II, Italy**Title: Enhancing the photocatalytic activity for pollutant degradation and H₂ evolution by modifying ZrO₂ with nanoclusters of BiVO₃, Ag₃PO₄, SrTiO₃ and WO₃: A first-principles study****Francis Opoku**, University of Johannesburg, South Africa**Sessions: Nanomaterials****Session Chair: Hikaru Kobayashi**, Osaka University, Japan**Session Co-Chair: Marzia Quaglio**, Italian Institute of Technology, Italy

Session Introduction

Title: Si nanopowder for internal hydrogen generation materials

Hikaru Kobayashi, Osaka University, Japan

Title: N-doped carbon-based nanofibers as oxygen reduction reaction catalysts

Marzia Quaglio, Italian Institute of Technology, Italy

Title: Controlled synthesis of vertical and planar graphenes using plasma-enhanced chemical vapor deposition

Mineo Hiramatsu, Meijo University, Japan

Title: Rational clustering and fractionation of "SERS hot-spot" plasmonic nanoparticles

Nekane Guarrotxena, Spanish National Research Council (CSIC), Spain

Networking & Refreshments Break

Title: The nanophotonic behaviors of wideband diluted magnetic semiconductor nanostructures

Bing Suo, Beijing Institute of Technology, China

Title: Fabrication of nanoporous graphene membranes for nanofiltration applications

Marco Laurenti, Politecnico di Torino, Italy

Title: Noble metal nanostructures

Sarmiza Elena Stanca, Leibniz Institute of Photonic Technology, Germany

Title: Fabrication and characterization of carbon nanotube–recycled polyethylene terephthalate nanocomposites

Ravindra Reddy Chowreddy, Norner AS, Norway

Title: Adatom's Berry phase as a classification toolkit and responsible for enhanced lifetimes of degenerated ground states

Marta Prada, University of Hamburg, Germany

Title: Nanostructured Mn_xO_y as catalyst for oxygen reduction reaction

Angelica Chiodoni, Italian Institute of Technology, Italy

Panel Discussion

Day 2 June 13, 2017

Olimpica 1

Keynote Forum

An approximate semi-classical method that uses real valued trajectories for time dependent tunneling calculations

Michael F. Herman, Tulane University, USA

Implementation of new magnesium sheets into application from laboratory to service

Karl Ulrich Kainer, Helmholtz-Zentrum Geesthacht, Germany

Towards the growth of 3D forests of carbon nanotubes: Selective height control using reservoirs and overlayers

Gilbert Daniel Nessim, Bar Ilan University, Israel

Sessions: Nanomaterials | Mechanics, Characterization Techniques and Equipments

Session Chair: Kyuman Cho, Sogang University, South Korea

Session Co-Chair: Olga Barrera, University of Oxford, UK

Session Introduction

Title: Photoelectron spectra of $\text{Ge}_x\text{Sb}_{20}\text{Se}_{80-x}$ Glasses

Li Wang, Beijing University of Technology, China

Title: Nanocellulose based flexible, environment-friendly nonvolatile resistive switching memory

Kazuki Nagashima, IMCE Kyushu University, Japan

Networking & Refreshments Break

Title: 2D material fluid nanocomposites for reconfigurable integrated optoelectronics and Si photonics

Anna Baldycheva, University of Exeter, UK

Title: Supporting titanium on silica, graphene, epoxy graphene and carbon nanotubes: A first-principles study

Penny Govender, University of Johannesburg, South Africa

Title: Nanostructure Layered Double Hydroxides (LDH): synthesis, characterization and possible applications

Maria Richetta, University of Rome "Tor Vergata", Italy

Title: Nanocrystalline cellulose from abaca fibers

Anniver Ryan P. Lapuz, Forest Products Research and Development Institute, Philippines

Title: A high resolution, multi-purpose scanning I/Q-interferometer scheme for material diagnostics

Kyuman Cho, Sogang University, South Korea

Title: Coupling diffusion and mechanics modeling for hydrogen embrittlement (HE)

Olga Barrera, University of Oxford, UK

Lunch Break

Title: Effects of plasticity and pressure on the morphology and propagation of blisters: formation of croissant and donut-like buckles

Jérôme Colin, University of Poitiers, France

Title: Rational design of organic electrode materials: New advances and tools

Christine Frayret, Université de Picardie Jules Verne, France

Title: Computational investigation of the kneading process of bread dough

Natalie German, Technical University of Munich, Germany

Title: Materials characterization by X ray diffraction techniques

Aitor Larrañaga Varga, University of the Basque Country, Spain

Title: Internal stress and friction measurements during MoS₂-nickel electrodeposition

Ebru Saraloglu Güler, Baskent University, Turkey

Title: In-situ measurement for ablation geometry during impinging of plume with laser triangulation method

Juhwan Lim, Agency for Defense Development, South Korea

Networking & Refreshments Break

Title: Chemically bonded aramid-MWCNTs nano-composites: Morphology and thermal-mechanical properties

Zahoor Ahmad, Kuwait University, Kuwait

Title: The fate, behaviour and effect of WO₃ nanoparticles on the functionality of an aerobic treatment unit

Sandile Simelane, University of Johannesburg, South Africa

Title: Flexible synthesis of anatase TiO₂ nanocrystallines for dye-sensitized solar cells applied at regular sunlight and room light conditions

Yu-Ling Guo, National Cheng Kung University, Taiwan

Title: Single particle spectroscopic studies on two-photon photoluminescence of plasmon coupled gold nanotriangle dimers

Monalisa Garai, National University of Singapore, Singapore

Title: Fiber networks modified with graphene for durable and versatile flexible electronics

Pietro Cataldi, Italian Institute of Technology, Italy

Title: Mechanical and thermal properties of propylene glycol extended and paper waste sludge modified polyurethane foams

Agne Kairyte, Vilnius Gediminas Technical University, Lithuania

Break-out Session Day 2 @ Olimpica 3

Sessions: Biomaterials and Medical Devices | Polymer Science and Technology | Ceramics and Composite Materials

Session Chair: Bing Lu, Wanhua Chemical Group Co. Ltd., China

Session Co-Chair: Loubat Cédric, Specific Polymers, France

Session Introduction

Title: New development and applications of polyurethane materials

Bing Lu, Wanhua Chemical Group Co. Ltd., China

Title: Specific Polymers – Alkoxysilane and phosphonic acid functional groups to improve compatibility between inorganic surfaces and polymers

Loubat Cédric, Specific Polymers, France

Title: Improving separation of polymers by size-exclusion and liquid chromatography on the background of the theoretical model

Miloš Netopilík, Academy of Sciences of the Czech Republic, Czech Republic

Title: Sticky degradable bioelastomers

Richard Vendamme, Flemish Institute for Technological research, Belgium

Special Session on:

Title: Physics versus non-physical ISO/NIST standards in nano, micro and the numerous macro-techniques are detrimental for daily life: what can be done?

Gerd Kaupp, University of Oldenburg, German

Lunch Break

Title: Fabrication of Co-Cr alloys for biomedical applications by implementing rapid solidification

Julio Juarez Islas, Instituto de Investigaciones en Materiales, Mexico

Title: An enzymatic-based process for the extraction of fibers from diss stems with for composites reinforcement

Antonio Zuurro, Sapienza" University of Rome, Italy

Title: Flexible and soft bioelectronics for the biotic/abiotic interface

Damia Mawad, University of New South Wales, Australia

Title: Strategies for enhancing interfacial adhesion between chicken feather filler and thermoplastic matrices in biocompositess

Jorge Macanás de Benito, Universitat Politècnica de Catalunya, Spain

Title: Geometry and size dependent structural reversibility of sub-micrometer polymer structures

Hong Yee Low, Singapore University of Technology and Design, Singapore

Title: Perlite metal syntactic foam (PMSF) in impact engineering

Thomas Fiedler, University of Newcastle, Australia

Networking & Refreshments Break

Title: Synthesis and characterization of titanium carbide nanofibers using a modified carbothermal reduction process

Kanchan Mondal, Southern Illinois University, USA

Title: Highly dispersed zinc based sorbents for hot gas desulphurization: Synthesis and application

David Lokhat, University of KwaZulu-Natal, South Africa

Title: Melt infiltration casting of alumina, silicon carbide and boron carbide reinforced aluminium matrix composites

Ali Kalkanli, Middle East Technical Univeristy, Turkey

Title: Biomaterial surface modification to control inflammation: Effect of nanotopography and surface chemistry on protein adsorption and cell response

Rahul Madathiparambil Visalakshan, University of South Australia, Australia

Title: High performance rubber concrete

Samaneh Pourmohammadimojaveri, Western Sydney University, Australia

Title: Investigation of the microstructure and oxidation properties of NbB₂-SiC-GNP composites

Burak Cagri Ocak, Istanbul Technical University, Turkey

Poster Presentations (Session 1)

MSE01

Title: Optoelectronic studies on hybrid perovskites films for solar cells applications

Mauricio Solis de la Fuente, Lawrence Berkeley National Laboratory, USA

MSE02

Title: Valorization of feather wastes as useful and environmental friendly materials

Marta Casadesús, Universitat Politècnica de Catalunya, Spain

MSE03

Title: Manufacturing of gasket sheet using paper manufacturing process without organic solvent

Yoonjong Yoo, Korea Institute of Energy Research, Republic of Korea

- MSE04** Title: **Visible light driven photo-active nano Ag-TiO₂ for coating applications**
Jia Liang Cheng, Temasek Polytechnic, Singapore
- MSE05** Title: **Preparation of leucite from analcime by ion exchange process: An experimental study**
Qianqian Chang, China University of Geosciences, China
- MSE06** Title: **Preparation and luminescent properties of orange reddish emitting phosphor KCaBi(PO₄)₂:Sm³⁺**
Mi Ruiyu, China University of Geosciences, China
- MSE07** Title: **Synthesis of nano-analcime with potassic hornblende syenite by direct alkali-hydrothermal treatment**
Yuxiang Qi, China University of Geosciences, China
- MSE08** Title: **Angle-insensitive multicolor display device based on phase change materials**
Hongkai Ji, University of Science and Technology, China
- MSE09** Title: **Gate-tunable Schottky junction solar cells with light transparent and electric-field permeable graphene mesh on n-Si**
Won Il Park, Hanyang University, South Korea
- MSE10** Title: **Characterization and stability of TiO₂ nanoparticles in industrial dye stuff effluent**
Langelihle Nsikayezwe Dlamini, University of Johannesburg, South Africa

Poster Presentations (Session 2)

- MSE11** Title: **Effect of binder on adsorption of cesium on silica gel containing embedded phosphotungstic acid**
Aleksey Vasiliev, East Tennessee State University, USA
- MSE12** Title: **A highly efficient photoanode for enhancing degradation of the azo dye and electricity generation of dual-photoelectrode photocatalytic fuel cell**
He Yun, City University of Hong Kong, China
- MSE13** Title: **Preparation of zeolite for slow-release fertilizer using K-feldspar powder**
Jiangyan Yuan, China University of Geosciences, China
- MSE14** Title: **Raman microspectroscopy in dental research**
Tomasz Buchwald, Poznan University of Technology, Poland
- MSE15** Title: **Inverse gas chromatography - A novel method for the examination of bond strength between tooth hard tissues and restorative materials**
Zuzanna Okulus, Poznan University of Technology, Poland
- MSE16** Title: **Study on deposition rate and microstructure of niobium coating prepared by CVD from niobium pentafluoride**
Mingmin Zheng, State Power Investment Corporation Science and Technology Research Institute, China
- MSE17** Title: **Effect of reduced graphene oxide on the mechanical, thermal and electrical properties of epoxy**
Ahmed Alzahrany, University of Sheffield, United Kingdom
- MSE18** Title: **Solar cell: Photochemical cells based on dye sensitization of titanium dioxide and with indium tin oxide as a conductor**
Ari A Mohammed, University of Zakho, Iraq
- MSE19** Title: **Preparation and properties of protective coating on inner surface of nickel-based alloy tube**
Yanhong Liu, State Power Investment Corporation Science and Technology Research Institute, China

- MSE20** **Title: Specific Polymers – Alkoxysilane and phosphonic acid functional groups to improve compatibility between inorganic surfaces and polymers**
 Loubat Cédric, Specific Polymers, France
- MSE21** **Title: Response of S-phase to rapid annealing**
 Yana Liang, University of Birmingham, UK

Panel Discussion

Day 3 June 14, 2017

Olimpica 1

Sessions: Electronic, Optical and Magnetic Materials

Session Chair: Henri Jaffres, Unité Mixte de Physique CNRS, France

Session Co-Chair: Alessandra Vitale, Politecnico di Torino, Italy

Session Introduction

Title: Electrical spin injection and detection in molybdenum disulfide multilayer channel

Henri Jaffres, Unité Mixte de Physique CNRS, France

Title: Microscopic background in metal-insulator criterion for doped Mott-Hubbard materials

Vladimir A Gavrichkov, Kirensky Institute of Physics, Russia

Title: An electromagnetic-thermal model for heating patterns prediction of microwave treated palm to contrast the Red Palm Weevil

Rita Massa, University Naples Federico II, Italy

Title: Study on chemical reaction under microwave irradiation

Satoshi Fujii, Tokyo Institute of Technology, Japan

Title: L1₀-FePt based systems for ultra high-density magnetic recording

Gaspare Varvaro, ISM-CNR, Italy

Title: Photoluminescent crystalline magnetic materials based on trivalent lanthanide ions and polycyanidometallates

Szymon Chorazy, Jagiellonian University, Poland

Networking & Refreshments Break

Title: Rare-metal-free supermagnet L1₀-type FeNi ordered alloy

Masato Kotsugi, Tokyo University of Science, Japan

Title: Rare-metal-free high-performance Ga-Sn-O thin film transistor

Tokiyoshi Matsuda, Ryukoku University, Japan

Title: Ferroelectricity and magnetism in the organic charge transfer salts k-(ET)₂X

Luca Fausto Tocchio, Politecnico di Torino, Italy

Title: Materials by design for thermodynamically stable electrides

Mina Yoon, University of Tennessee, USA

Title: Intrinsic charge transport in stanene: Role of buckling and electron-phonon coupling

Yuma Nakamura, Tsinghua University, China

Lunch Break

Sessions: Emerging Smart Materials | Materials for Energy and Environmental Sustainability

Session Chair: Tsvetanka Zheleva, US Army Research Lab, USA

Session Co-Chair: Antonina Pirrotta, University of Palermo, Italy

Session Introduction

Title: Materials research in energy and power for defense

Tsvetanka Zheleva, US Army Research Lab, USA

Title: A new perspective for analyzing experimental tests on biomaterials

Antonina Pirrotta, University of Palermo, Italy

Title: Solar cells efficiency enhancement by plasmons generation

Alexander Axelevitch, Holon Institute of Technology, Israel

Title: Sustainable solutions for industrial waste minimization: Environmental and material applications

Shivani Bhardwaj Mishra, University of South Africa, South Africa

Title: Quasiparticle approach to study the kinetics of self-assembly in complex material

Helena Zapolsky, University of Normandy, France

Title: Screen printable molecular copper ink for printed electronics

Bhavana Deore, National Research Council, Canada

Networking & Refreshments Break

Title: Relation between nanoscale structures and transport phenomena in materials of polymer electrolyte fuel cell

Takashi Tokumasu, Tohoku University, Japan

Title: Siloxane photopolymers for PCR microfluidics

Alessandra Vitale, Politecnico di Torino, Italy

Title: The quantum Hall effect, the theta angle, instantons and all that

Adrianus M M Pruiskien, University of Amsterdam, Netherlands

Title: CO₂ adsorption equilibria on calcium exchanged bentonite modified by mono-, di- and triethanolamines

Ali Elkhalfah, Al-Neelain University, Sudan

Title: Structural features and functions of ZIF crystals made via a reaction diffusion process at room temperature

Mohamad Hmadeh, American University of Beirut, Lebanon

Title: Influence of grain size on super elasticity and actuation properties of Cu-Al-Mn shape memory alloys

Nazim Babacan, Ghazi University, Turkey

Panel Discussion

Award Ceremony

7th Annual Congress on

Materials Research and Technology

February 20-21, 2017 Berlin, Germany



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Sylt 3

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Opening Ceremony

Keynote Forum

Introduction

Title: Investigating materials formation with liquid-phase TEM

Jim De Yoreo, University of Washington, USA

Title: ISO-standards 14577 violate the first energy law: Can we further live with that?

Gerd Kaupp, University of Oldenburg, Germany

Title: New concept of bioresorbable polymer-based ceramic hybrids for cardiovascular stent applications

Xiang Zhang, University of Cambridge, UK

Title: Graphene flake and graphene quantum dot-receptor sensor for detecting nerve agents

Hyoyoung lee, Sungkyunkwan University, Republic of Korea

Coffee Break

Sessions:

Materials Science and Engineering | Materials in Industry

Session Chair: Hyoyoung lee, Sungkyunkwan University, Republic of Korea

Session Co-Chair: Nekane Guarrotxena, Spanish National Research Council, Spain

Session Introduction

Title: Smart functional nanoscale-hybrid materials: Surface modification and applications

Nekane Guarrotxena, Spanish National Research Council, Spain

Title: Ductile behavior of hard MoBC and WBC nanolaminated coatings

Petr Vasina, Masaryk University, Czech Republic

Title: Dynamics of single ions and molecules at the surface of solids in solution

Kislon Voitchovsky, Durham University, UK

Title: Design and evaluation of new ligands with highly extractability and selectivity for palladium from secondary raw material

Emad Mowafy, University of Hail, Saudi Arabia

Title: Evaluating mechanical properties of complex material structures from a new combination of calotte grinding and indentation tests

Nick Bierwisch, Saxonian Institute of Surface Mechanics, Germany

Title: Optimizing electrical conductivity and optical transparency of IZO thin film deposited by radio frequency (RF) magnetron sputtering

Lei Zhang, Winston Salem State University, USA

Title: Fabrication, optical and thermal properties of glass and crystalline rare-earth aluminates

Vijaya Kumar, University of Mysore, India

Title: Effect of process parameters and post heat treatment in the development of microalloyed HSLA tubes for torsional applications

Thendralarasu Udhayakumar, Tube Investments of India Ltd, India

Lunch Break

Title: Effect of process parameters and post heat treatment in the development of microalloyed HSLA tubes for torsional applications

Elakkiya Mani, Tube Investments of India Ltd, India

Title: Graphite based minimum quantity dry lubrication at drilling CFRP

Robert Beckenlechner, University of Stuttgart, Germany

Title: Insights into linear supramolecular polymer formation via TPE and BODIPY containing host-guest interaction

Chinmayananda Gouda, National Chiao Tung University, Taiwan

Sessions:

Nanomaterials | Biomaterials and Healthcare

Session Chair: Nikolay Ledentsov, VI Systems GmbH, Germany

Session Co-Chair: Yongmei Zheng, Beihang University, China

Session Introduction

Title: Recent progress in epitaxial quantum dots for lasers and light emitting diodes

Nikolay Ledentsov, VI Systems GmbH, Germany

Title: Functional metal-ceramic nanocomposites based on tubule clay

Yuri Lvov, Louisiana Tech University, USA

Title: Characterization of nanosuspension using pulsed field gradient nuclear magnetic resonance

Haruhisa Kato, National Institute of Advanced Industrial Science and Technology, Japan

Coffee Break

Title: Engineering optical Raman active nanoassemblies for nanosensor purposes

Nekane Guarrotxena, Spanish National Research Council, Spain

Title: Mechanical and topographical characterization of biomaterials, cells and tissues by enhanced atomic force microscopy

Jörg Barner, JPK Instruments AG, Germany

Title: Soft thermal nanoimprint lithography

Mark Schwartzman, Ben-Gurion University of the Negev, Israel

Title: Bioinspired gradient surfaces with controlling of dynamic wettability

Yongmei Zheng, Beihang University, China

Title: EHDA technology utilizing different bio-structure

Rita Haj Ahmad, De Montfort University, UK

Title: Electrochemical and biosynthesis of Nano-Photocatalytic materials and its applications in photovoltaic, anti-bacterial, anti-cancer and in preparation of polymer composites

Sannaiah Ananda, University of Mysore, India

Title: Synthesis and characterization of single-crystal bismuth telluride nanowires

Ming Yau Chern, National Taiwan University, Taiwan

Title: Iriarteia deltoidea & Socratea exorrhiza: Sustainable production alternatives for integrated Biosystems, first stage - bioconstruction.

Lina Fernanda Mojica Sánchez, CIAM-UNIMETA, Colombia

Title: On-demand release of paclitaxel and 5-fluorouracil using thermoresponsive poly(NIPAAm-co-HMAAm)/polyurethane partnered with alternating magnetic field induced hyperthermia on non-vascular nitinol stent

Ludwig Erik Aguilar, Chonbuk National University, South Korea

Title: Reversible and irreversible self-folding behavior of water responsive poly (vinyl alcohol) films

Amrita Rath, Indian Institute of Technology Madras, India

Title: Doxorubicin conjugated Fe₃O₄-GQD nanoparticle for magnetically targeted and pH responsive drug delivery vehicle: a two way targeted approach

Ankan Dutta Chowdhury, National Chiao Tung University, Taiwan

Panel Discussion

Day 2 | February 21, 2017 | Tuesday

Sylt 3

Keynote Forum

Title: Hybrid photovoltaic-piezoelectric flexible device for energy harvesting from nature

Elias Siores, University of Bolton, UK

Title: The decomposition of the solution during the formation of eutectic composites

Alex guskov, Institute of Solid State Physics of RAS, Russia

Title: Designing topological states by pressure, strain and functionalization

Udo Schwingenschloegl, King Abdullah University of Science & Technology, Saudi Arabia

Title: Graphene/h-BN heterostructures based field effect transistors employing chemical vapor deposition grown h-BN as a dielectric layer

Dae Joon Kang, Sungkyunkwan University, Republic of Korea

Sessions:

Materials Chemistry | Materials Physics | Energy Materials

Session Chair: Claude Delmas, University of Bordeaux, France

Session Co-Chair: Zhiqiang Gao, National University of Singapore, Singapore

Session Introduction

Title: Solid state electrochemistry: A tool for synthesis and characterization of solids

Claude Delmas, University of Bordeaux, France

Title: Chemical effects on metals friction at the nanometer scale

Arnaud Caron, KoreaTech, Republic of Korea

Title: Graphene oxide supported layered double hydroxide hybrids: Synthesis and applications

Mohamed Mokhtar Mohamed Mostafa, King Abdulaziz University, Saudi Arabia

Coffee Break

Title: Approaches to reduce material consumptions in photovoltaics

Martha Ch. Lux-Steiner, Helmholtz-Zentrum Berlin, Germany

Title: Imaging electrons motion in semiconductor materials

Michael K L Man, Okinawa Institute of Science and Technology Graduate University, Japan

Title: Neutron scattering investigations of hydrogen storage in porous materials

Margarita Russina, Helmholtz Centre Berlin for Material and Energy Research, Germany

Title: Development of novel organic radical batteries

Shinichi Nakatsuji, University of Hyogo, Japan

Title: A dual-carbon phase modified and nanostructured nickel sulfide anode for sodium-ion batteries

Zhiqiang Gao, National University of Singapore, Singapore

Title: Hierarchical conducting polymers micro/nanostructures and their electrochemical energy conversion

Ying Zhu, Beihang University, China

Title: Environmental benign graphene quantum dots embedded halloysite nanotubes as high performance supercapacitor electrode material

Akhilesh Babu Ganganboina, National Tsing Hua University, Taiwan

Lunch Break

Sessions:

Metallurgy and Materials Science | Advanced Materials and Devices | Characterization and Testing of Materials

Session Chair: Mikhail Lebyodkin, CNRS, France

Session Co-Chair: Mihaela Albu, Graz Centre of Electron Microscopy, Austria

Session Introduction

Title: Development of solar grade silicon refining via metallurgical route: Thermodynamic properties of silicon based alloys

Kazuki Morita, The University of Tokyo, Japan

Title: Controlling microstructure via thermal science analysis during resistance spot welding

Peng-Sheng Wei, National Sun Yat-Sen University, Taiwan

Title: Light-induced superconductivity in an organic mott insulator induced by light-driven carrier doping

Masayuki Suda, Institute for Molecular Science, Japan

Title: Large tunnel magnetocapacitance in magnetic tunnel junctions

Hideo Kaiju, Hokkaido University, Japan

Title: Crack-closing of superelastic NiTi SMA short fibers in mortar beams

Eunsoo Choi, Hongik University, Korea

Title: Correlated versus random behavior of dislocations in jerky flow of Al-Mg alloys

Mikhail Lebyodkin, CNRS, France

Title: The development of smart materials for medical applications using laser scanning micrometry

Daniel Melling, University of Dundee, UK

Title: Quantum contact mechanics for holistic material optimization

Norbert Schwarzer, Saxonian Institute of Surface Mechanics, Germany

Coffee Break

Title: Magnetic characterization of the phase transformations during synthesis of the FeWO₄ nanoparticles using WS₂ nanotubess

Gregory Leitus, Weizmann Institute of Science, Israel

Title: Advanced alloys and steels microstructure characterization by analytical high resolution scanning transmission electron microscopy

Mihaela Albu, Graz Centre of Electron Microscopy, Austria

Title: Evaluation of liquid tin corrosion on austenitic steels as well as nickel-based alloys and first tests on possible protective surface layers at high temperature

Thomas Emmerich, Karlsruher Institute of Technology, Germany

Workshop

Title: Correlative and *in-situ* Materials Characterization

Said Mansour, Hamad Bin Khalifa University, Qatar

Mathias O. Mosig, Protochips, USA

Philipp Wachsmuth, JEOL, Germany

Session Introduction

Title: Optimization of sustainable cutting conditions in turning carbon steel by CNC turning machine

Haider M. Mohammad Albu-Swelim, University of Basrah, Iraq

Title: Enhancement the mechanical properties of aluminum casting alloys (A356) by adding nanorods structures from zinc oxide

Zaid S Qassim, University of Basrah, Iraq

Title: Prediction of hardness, yield strength, and tensile strength for single roll melt spinning of 5083 Al-alloy ribbons

Ahmad Kadhim Jassim Al-Dawod, University of Basrah, Iraq

Title: Comprehensive study of chemical synthesis and dielectric parameters of holmium substituted yttrium iron garnets (HoxY3-xFe5O12, x=0.1, 0.3, 0.6, 0.9, 1.2, 1.5) prepared by conventional ceramic method

Kausar Javed Khan, Lahore College for Women University, Pakistan

Title: Water content dependent mechanical properties of biopolymer thin films: A molecular dynamics study

Santhosh Mathesan, IIT Madras, India

Poster Presentations on Day 2 (February 21, 2017) 16:20-17:00 @ Sylt Foyer

MSC-01

Title: Predictive wear modelling - The ultimate simulation tool for optimum tribo coatings

Nick Bierwisch, Saxonian Institute of Surface Mechanics, Germany

MSC-02

Title: Synthesis and characterization of conductive polymer hydrogels and the investigation of their application as biosensor hybrid for catechol detection

Ezer Castillo, Adelphi University, USA

MSC-03

Title: Dynamic response of a modified water tank exposed to concentrated solar energy

Mohammed H. Alhamdo, University of AlMustansirya, Iraq

MSC-04

Title: Experimental study of the thermal behavior of heated natural composite material

Qasim Saleh Mahdi, AL-Mustansiryah University, Iraq

MSC-05 Title: Engineering of multi-functional composite nano-particles to address anti-microbial resistance using EHDA particle technology

Suleman Ramzan, De Montfort University, UK

MSC-06 Title: Rare earth Chalcogels NaLnSnS_4 ($\text{Ln} = \text{Y, Gd, Tb}$) for Selective Adsorption of Volatile Hydrocarbons and Gases

Fatimah Edhaim, King Abdullah University of Science & Technology, SA

MSC-07 Title: On the friction and wear on-set of fcc metals by atomic force microscopy

Hui-Eun Ko, KoreaTech, Republic of Korea

Panel Discussions

End Of Day 2

Closing Ceremony

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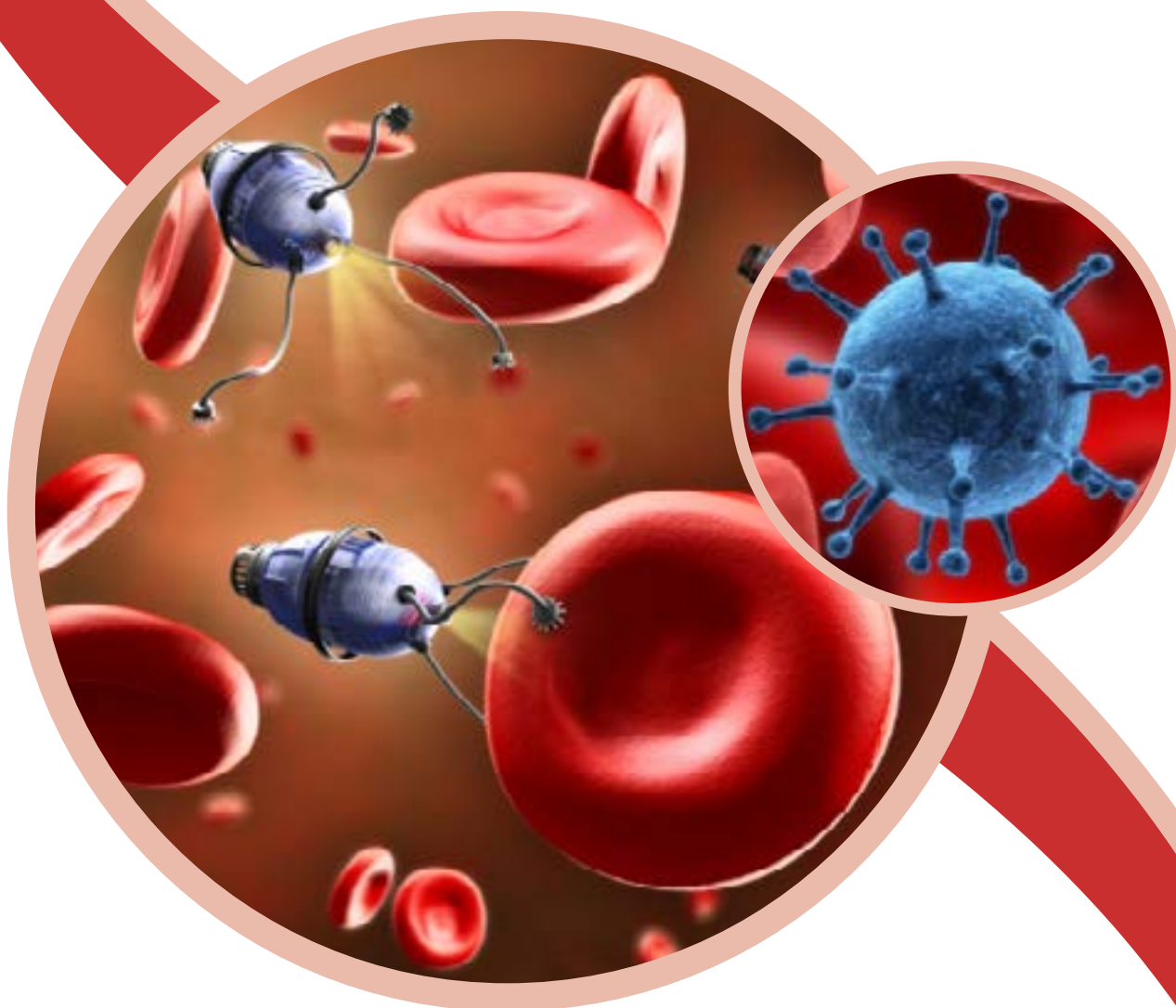
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Opening Ceremony

Keynote Forum

Introduction

Title: The causal link between Nano -Toxicology and human health: DNA damage by UV emission from nanoparticles

Thomas Prevenslik, QED Radiations, China

Title: S-Nitrosated human serum albumin dimer with superior antitumor activity, long blood retention and excellent EPR effect

Masaki Otagiri, Sojo University, Japan

Title: Tuning plasmon resonance of In_2O_3 nanocrystals throughout mid-infrared: dopant, phase, and electronic structure dependence

Pavle V. Radovanovic, University of Waterloo, Canada

Group Photo

Networking and Refreshment Break

Title: Surface-engineered tungsten disulfide (WS_2) inorganic nanotubes (INTs- WS_2) – novel chemically modified nanoscale CNT-replacement inorganic “Nanofillers”

Jean-Paul Lellouche, Bar-Ilan University, Israel

Plenary Session

Title: Ensemble Monte Carlo methods and results for nanoscale Si and III-V n-channel FinFETs; non-equilibrium degenerate statistics, quantum-confined scattering and more

Leonard F Register, University of Texas at Austin, USA

Title: Defluorination-assisted nanotube-substitution reaction with ammonia gas for synthesis of nitrogen-doped single-walled carbon nanotubes

Yoshinori Sato, Tohoku University, Japan

Title: Novel silicon nano-objects

María E Dávila, Instituto de Ciencia de Materiales de Madrid - ICMM - CSIC, Spain

Lunch Break

Title: Metamaterial device design with the extended modal theory

Nathalie Raveu, LAPLACE - Centre National de la Recherche Scientifique, France

Title: Electrically driven nanogap optical antennas

Claire Deeb, Centre de Nanoscience et de Nanotechnologies, France

Title: A novel nanometric cubic phase in monochalcogenide semiconductors – theory and experiment

Guy Makov, Ilse Katz Institute for Nanoscale Science and Technology, Israel

Panel Discussion

Sessions: Nanoscience and Technology | Nano Medicine | Nano Toxicology | Nanophotonics | Nano Composites | Nano Fluidics | Nanotechnology in Agriculture and Food Industry

Session Chair: Jean-Paul Lellouche, Bar-Ilan University, Israel

Session Co-chair: Masaki Otagiri, Sojo University, Japan

Session Introduction

Nano 2017

Title: Nanotechnology in liver cancer

Manfred George Krukemeyer, Paracelsus-Hospital Osnabrueck, Germany

Title: Probing atherosclerotic plaque permeability using fluorescent blood pool agents in ApoE^(-/-) mouse model

Claudia Cabella, Bracco Imaging SpA, Italy

Networking and Refreshment Break

Title: Nanotechnology: Applications and risks

Akbar S Khan, Defense Threat Reduction Agency, USA

Title: The fantastic voyage of nanoparticles targeting A β

Giulio Sancini, University of Milano-Bicocca, Italy

Title: Secondary electron emission from carbon nanoparticles by electron impact

Isabel Montero, Instituto de Ciencia de Materiales de Madrid - ICMM - CSIC, Spain

Title: Reactions of radicals at nanoparticles surfaces

Tomer Zidki, Ariel University, Israel

YRF Session

YRF Judge: Pavle V. Radovanovic, University of Waterloo, Canada

Title: Preparation and characterization of prednisone and ciprofloxacin double layer-loaded chitosan nanoparticles for oral delivery

Modan Wu, Dublin Institute of Technology, Ireland

Title: The cytoplasmic escape pathway of polyethylenimine coated nanoparticles is altered by changing the nanoparticle concentration

Kepsutlu Burcu, Helmholtz-Zentrum Berlin, Germany

Title: Functions of antigen presenting cells can be altered by gold nanoparticles exposure

Alexis Gonon, Institute of Advanced Biosciences-University Grenoble Alpes, France

Panel Discussion

Day 2 June 06, 2017

Keynote Forum

Introduction

Title: Band gap science for organic solar cells

Masahiro Hiramoto, Institute for Molecular Science, Japan

Title: Transparent and conductive nanomaterials

Daniel Bellet, CNRS, France

Title: Functional nanostructures and energy-driven water splitting

Ming-Yong Han, Institute of Materials Research and Engineering, Singapore

Networking and Refreshment Break

Plenary Session

Title: Contact line dynamic of cassie-state wetting on ultrahydrophobic nano-structured surfaces

Jiangtao Cheng, Virginia Polytechnic Institute and State University, USA

Title: Nanostructured supports design: a prospective way to modern catalysts constructing

Vera I Isaeva, National University of Science and Technology "MISiS", Russia

Title: Copper nanoparticles: Retarding air-oxidation without electrical isolation using organic ligands, and the size dependence of nanoparticle work function

Ross A Hatton, University of Warwick, UK

Title: Atomic-scale characterization of semiconductor nanowire surfaces during device operation

Rainer Timm, Lund University, Sweden

Lunch Break

Panel Discussion

Sessions: Nano Electronics | Nano Biotechnology | Nanotechnology in Water treatment | Advanced Nanomaterials | Nanotech for Energy and Environment | Nano Materials Synthesis and Characterisation | Nanobiomaterials

Session Chair: Masahiro Hiramoto, Institute for Molecular Science, Japan

Session Co-Chair: Daniel Bellet, CNRS, France

17th IINN 2017

Title: The ILs-assisted solvothermal synthesis of TiO_2 spheres: The effect of ionic liquids on morphology and photoactivity of TiO_2

Ewelina Grabowska, University of Gdansk, Poland

Title: Synthesis of highly active supported Pt nanostructure via thermo-destabilization of microemulsions

Riny Yolanda Parapat, Technical University of Berlin, Germany

Title: One-pot synthesis of hydrophilic $\text{Nd}^{3+}:\text{Ba}_{0.3}\text{Lu}_{0.7}\text{F}_{2.7}$ nano spheres: Crystal structure, X-ray computed tomography and NIR luminescence

Ana Isabel Becerro, Instituto de Ciencia de Materiales de Sevilla (CSIC-US), Spain

Title: Electrowetting actuation of polydisperse nanofluid droplets

Crismar Patacsil, University of the Philippines Diliman, Philippines

Title: Application of nanoparticles as biomolecular carriers

Laleh Alisaraie, Memorial University, Canada

Title: Enzymatic synthesis and characterization of metallic nanoparticles for targeted application on antimicrobial biodegradable polymers

Iva Rezić, University of Zagreb, Croatia

Title: Light-driven reversible shaping on azopolymeric structures

Francesca Frascella, Politecnico di Torino, Italy

Networking and Refreshment Break

Title: Effect of cold atmospheric plasma application on nano-TiN coated Co-Cr dental alloy

Emre Seker, Eskisehir Osmangazi University, Turkey

Title: Effect of cold atmospheric plasma on collagen membrane surface

Basak Kusakci Seker, Eskisehir Osmangazi University, Turkey

Title: Pulsed laser deposited doped Cu_2O thin films for optical application

Gurpreet Kaur, Dr. B. R. Ambedkar National Institute of Technology, India

Video presentation

Title: The effects of laser characteristics on melting of nano-particles on a surface

Peng-Sheng Wei, National Sun Yat-Sen University, Taiwan

Title: Optical spin injection in atomic monolayers

Norberto Arzate, Centro de Investigaciones en Óptica, Mexico

Poster Presentations

Poster Judge: Yoshinori Sato, Tohoku University, Japan

Panel Discussion

Award & Closing Ceremony

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Nanoscience and Molecular Nanotechnology

November 06-08, 2017 Frankfurt, Germany

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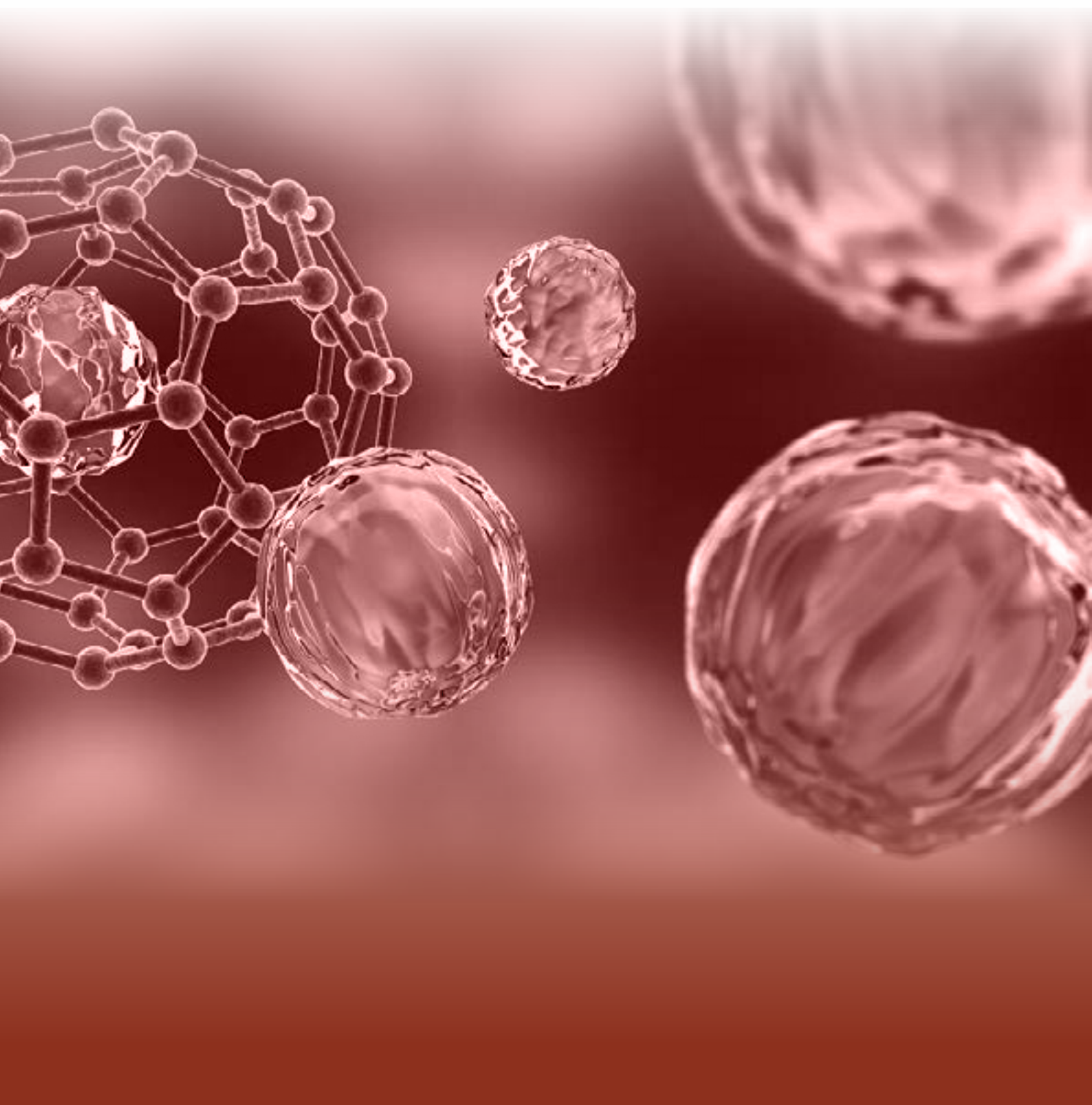
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14th International Conference on
Nanomaterials and Nanotechnology

March 30-31, 2017 Madrid, Spain



Opening Ceremony

Keynote Forum

Introduction

Title: Design of Pd-based nanoalloy particles confined into mesoporous carbon: Size, composition and confinement effects on the interactions with hydrogen

Camelia Matei Ghimbeu, Researcher, Institute of Materials Science of Mulhouse (IS2M-CNRS), France

Title: Nanofluids for energy applications

Pedro Gomez-Romero, CSIC Research Professor, Catalan Institute of Nanoscience and Nanotechnology, Spain

Networking & Refreshments Break

Title: Free-standing nanostructures at atomic scale: From growth mechanisms to local properties at the nanoscale

Jordi Arbiol, Catalan Institution for Research and Advanced Studies, Spain

Sessions

Nano Particles | Nano Electronic devices | Nano Scale Materials | Scope of Nanomaterials | Nanomaterials Characterisation and Synthesis | Nano Structures | Nanomaterials Safety and Regulations

Session Chair: Alain Demourgues, University of Bordeaux, France

Session Co-chair: Constantinos Sioutas, University of Southern California, USA

Session Introduction

Title: Physical, chemical and toxicological characteristics and historical trends of ultrafine particulate matter from traffic emissions in the Mega City of Los Angeles

Constantinos Sioutas, University of Southern California, USA

Title: Heat transport in tetra-functional epoxy resin containing low percentage of exfoliated graphite nanoparticles

Carlo Naddeo, University of Salerno, Italy

Title: 2D plasmonic diffractive patterns in metals by laser interference

Ramon J Peláez, Institute of Optics, Spain

Group Photo: 13:10-13:15

Lunch Break

Title: Gas Phase synthesis of Nanoparticles: Challenges and Opportunities

Yves Huttel, Instituto de Ciencia de Materiales de Madrid, Spain

Title: Graphene and fullerene based nanostructures grown by chemical vapor deposition and related technologies

Enric Bertran-Serra, Universitat de Barcelona, Spain

Title: Effects of process parameters on chemical functionalization of helicoil carbon nanotubes

Sean Reza Taklimi, Wichita State University, USA

Title: Magnetic nanoparticle/ magnetic fluid approach to control neuromuscular degeneration in Friedreich's ataxia

Swasti Wagh, Precedent of Indore Chapter of SAMAG (Seek a Miracle Ataxia Group), India

Title: Sorting of nanogel mixed dispersions by directed assembly on surfaces using AFM nanoxerography

Lauryanne Teulon, Université de Toulouse, France

Networking & Refreshments Break

Title: Synthesis of FePO₄•2H₂O nanocomposites for fabrication of lithium ion battery using impinging stream reactor
Bin Dong, The University of Nottingham Ningbo China, China
Title: Plasmonic Photothermal Inactivation of Escherichia coli and Bacillus cereus using Polymer Coated Gold Nanoparticle.
Heba ElSayed ElZorkany, Nanotechnology and Advanced Materials Central Lab, Egypt
Title: Effect of particle size on the optical properties of ZnO nanopowders fabricated by wet milling
Telem Şimşek, Hacettepe University, Turkey

Day 2 | March 31, 2017

Cadiz

Keynote Forum

Introduction

Title: Dynamic tensile modulus of positive temperature coefficient materials under electric field investigated in terms of low frequency earthquake counter measures

Masaru Matsuo, Dalian University of Technology, China

Title: The world of fluorine-based nano-materials: Past, present and future

Alain Demourgues, University of Bordeaux, France

Title: Nano scale InGaAs FinFET for post Si CMOS application

Edward Yi Chang, National Chiao Tung University, Taiwan

Title: Nanoelectromechanical resonators for logic operations

Mohammad I Younis, King Abdullah University of Science and Technology, Saudi Arabia

Networking & Refreshments Break

Sessions:

Applications of Nanomaterials | Characterization and Properties of Nanomaterials | Advanced Nanomaterials | Nanodevices and Systems | Nanomedical Devices | Nanotechnology Applications

Session Chair: J Vidal-Gancedo, Institut of Barcelona, ICMA-B-CSIC, Spain

Session Co-chair: Nadezhda Nebogatikova, Russian Academy of Sciences, Russia

Session Introduction

Title: New catalytic process using palladium nanoparticles for the construction of potentially bioactive heterocycles

Amparo Luna, Complutense University of Madrid, Spain

Title: Nanostructured few-layer graphene films with edge reconstruction for electronic applications

Nadezhda Nebogatikova, Russian Academy of Sciences, Russia

Title: Au nanoparticles labeled with organic radicals

J Vidal-Gancedo, Institut of Barcelona, ICMA-B-CSIC, Spain

Title: Development of ultra-thin glass based micro/nano fluidic

Yo Tanaka, RIKEN Quantitative Biology Center, Japan

Lunch Break

Title: Nanoparticles in plastic materials for food contact applications

Marta Lara, Instituto Tecnológico del embalaje, Spain

Title: Decoration of Nickel Nanoparticles on Multiwalled Carbon Nanotubes and Testing the Electrocatalytic Activity on Methanol/Ethanol Oxidation for Fuel cell Application

Krishnamurthy, Bangalore University, India

Title: High efficiency of silica-coated CdSe/ZnS quantum dots for cellular imaging by time lapse confocal laser scanning microscopy

Heba ElSayed ElZorkany, Nanotechnology and Advanced Materials Central Lab, Egypt

Title: Thermal properties of graphene nanoflakes dispersed in DMF: a classical MD study including QM corrections

Francesca Costanzo, Catalan Institute of Nanoscience and Nanotechnology - ICN2, CSIC and BIST, Spain

Title: Fe doped nano CaO based, fabric hybridized, stand alone natural solar photo-catalytic reactor for waste water treatment

Ambreen Ashar, University of Agriculture-Faisalabad, Pakistan

Networking & Refreshments Break

Title: Biogenic synthesis of silver nanoparticles by *Bacillus thuringiensis* against dengue vector larvae

Romana Shahzadi, University of the Punjab, Pakistan

Title: The Effects of Interfacial Properties on Pore Shape during Solidification

Peng-Sheng Wei, National Sun Yat-Sen University, Taiwan

Title: The perception of the risks of nanotechnologies from the analysis of the environment, health and safety publications (OECD): Reflections on the legal assessment of future damage

Wilson Engelmann, Unisinos, Brazil

Poster Presentations

Closing Ceremony

