Tentative Program

20th International Conference on

Advanced Energy Materials and Research

August 13-14 2018 Dublin, Ireland



Interactive Sessions | Keynote Lectures | Plenary Lectures | Workshops

Exhibitors | B2B Meetings

For available speaker slots

advancedenergymaterials@materialsconferences.org

20th International Conference on

Advanced Energy Materials and Research

August 13-14 2018 Dublin, Ireland

Program at a Glance

Day 1

Morning Sessions	Reception/Registration	08.00-09.00	
		Time	General Session
	Least of 3 Keynote/Plenary Talks	09.00-09.15	Inaugural Address
		09.15-09.45	Keynote/Plenary Talk 1
		09.45-10.15	Keynote/Plenary Talk 2
		10.15-10.45	Keynote/Plenary Talk 3
	Panel Discussions/Group Photo		
	Coffee/Tea Break 10.45-11.00 (Networking)		
	11.00-12.40	Advanced Energy Materials & Advanced Graphene Materials	
Evening Sessions			
	Lunch Break 12.40-13.30		
	13.30-15.30	Hydrogen Energy & Solar Energy Materials	
	Coffee/Tea Break 15.30-15.45 (Networking)		
	15.45-17.25	Workshop	

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	Advanced Nanomaterials	Nanotechnology and Energy Materials
Evening Sessions	Lunch Break 12.35-13.25		
	13.25-15.05	Energy Harvesting Materials & Materials Applications	Superconducting Materials & Mining, Metallurgy & Materials Science
	Coffee/Tea Break 15.05-15.20 (Networking)		
	15.20-17.00	Polymer Energy Materials	Batteries and Energy Materials

NOTE: Program Schedule is subject to change with final allotment of the speaker slots

For more Details PS: http://energymaterials.materialsconferences.com/

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Conference Highlights

- Advanced Energy Materials
- Hydrogen Energy
- Advanced Nanomaterials
- Solar Energy Materials
- Advanced Graphene Materials
- Nanotechnology and Energy Materials
- Energy Harvesting Materials
- Superconducting Materials
- Polymer Energy Materials
- Batteries and Energy Materials
- Materials Applications
- Mining, Metallurgy & Materials Science

For detailed sessions, please visit: http://energymaterials.materialsconferences.com/

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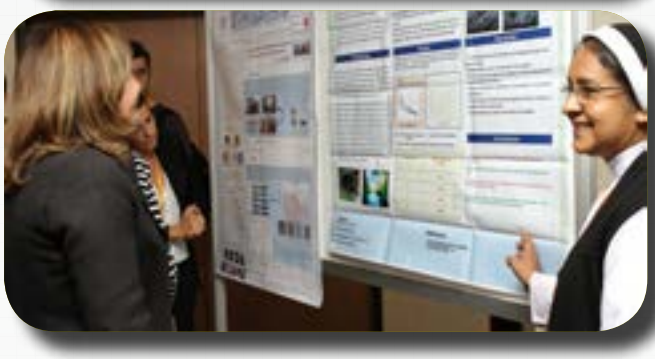


Glimpses of Adcanced Energy Materials Conferences



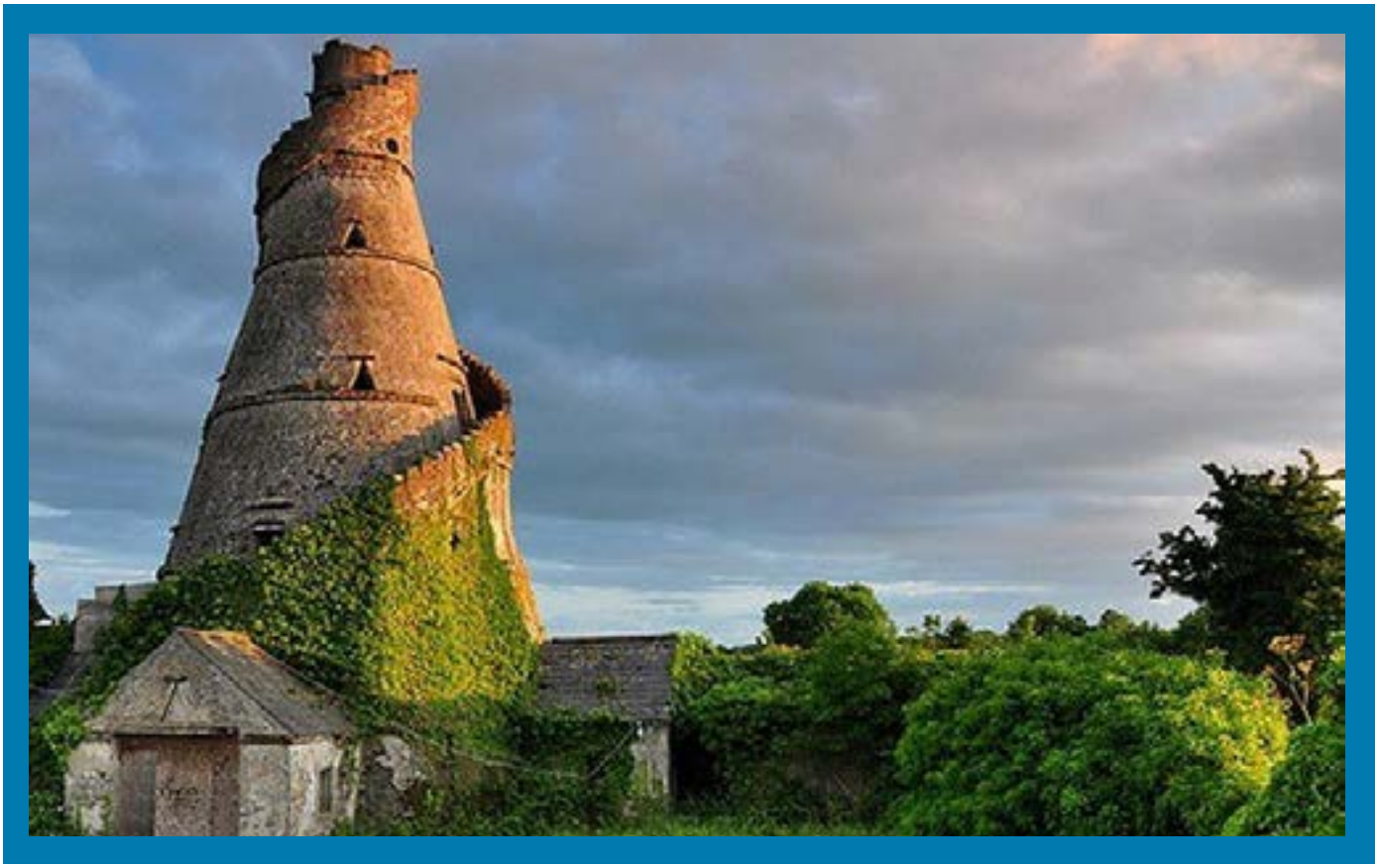




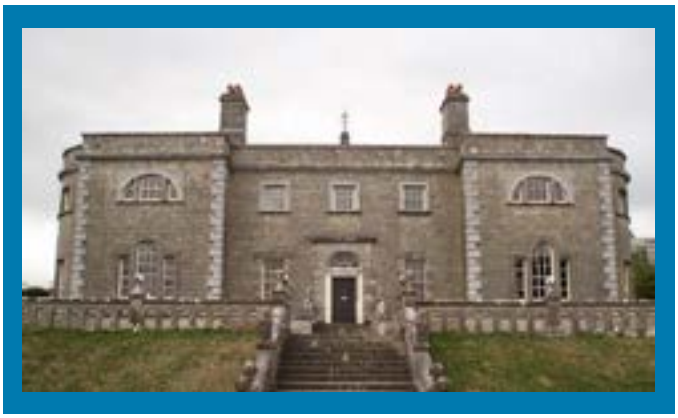




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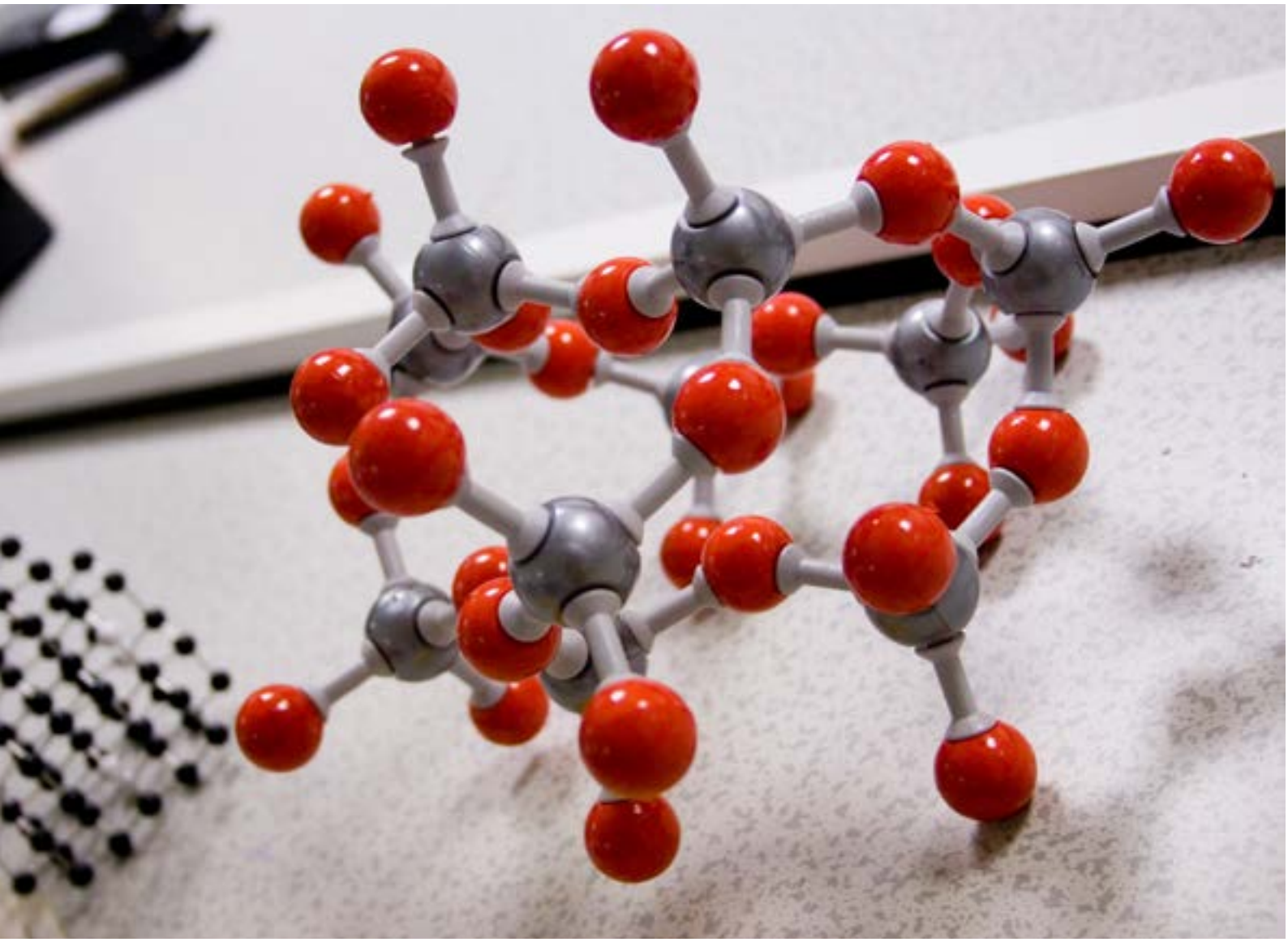
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9th World Congress on

Materials Science and Engineering

June 12-14, 2017 Rome, Italy



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Registrations

Olimpica 1

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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 subano-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 H_2 evolution by modifying ZrO_2 with nanoclusters of $BiVO_3$, Ag_3PO_4, $SrTiO_3$ and WO_3: 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 GexSb20Se80-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 MoS_2-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 WO_3 nanoparticles on the functionality of an aerobic treatment unit
Sandile Simelane, University of Johannesburg, South Africa
Title: Flexible synthesis of anatase TiO_2 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 Kairytė, 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 Zuorro, 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, UniversitatPolitècnica 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-TiO_2 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 $KCaBi(PO_4)_2:Sm^{3+}$** **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 TiO_2 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: $L1_0$-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 $L1_0$-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 Pruisken, University of Amsterdam, Netherlands
Title: CO_2 adsorption equilibria on calcium exchanged bentonite modified by mono-, di- and triethanolamines
Ali Elkhalifah, 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

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Day 1 | February 20, 2017 | Monday

Registrations

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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 Industral 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 Schvartzman, 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: Iriartea deltoidea & Socratea exhorriza: Sustainable production alternatives for integrated Biosystems, first stage - bioconstruction.
Lina Fernanda Mojica Sánchez, CIAM-UNIMETA, Colombia
Title: On-demand release of paclitaxel and 5-flourouracil 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 Fe_3O_4-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

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 $FeWO_4$ nanoparticles using WS_2 nanotubess
Gregory Leitus, Weizmann Institue 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

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 NaLnSnS4 (Ln= 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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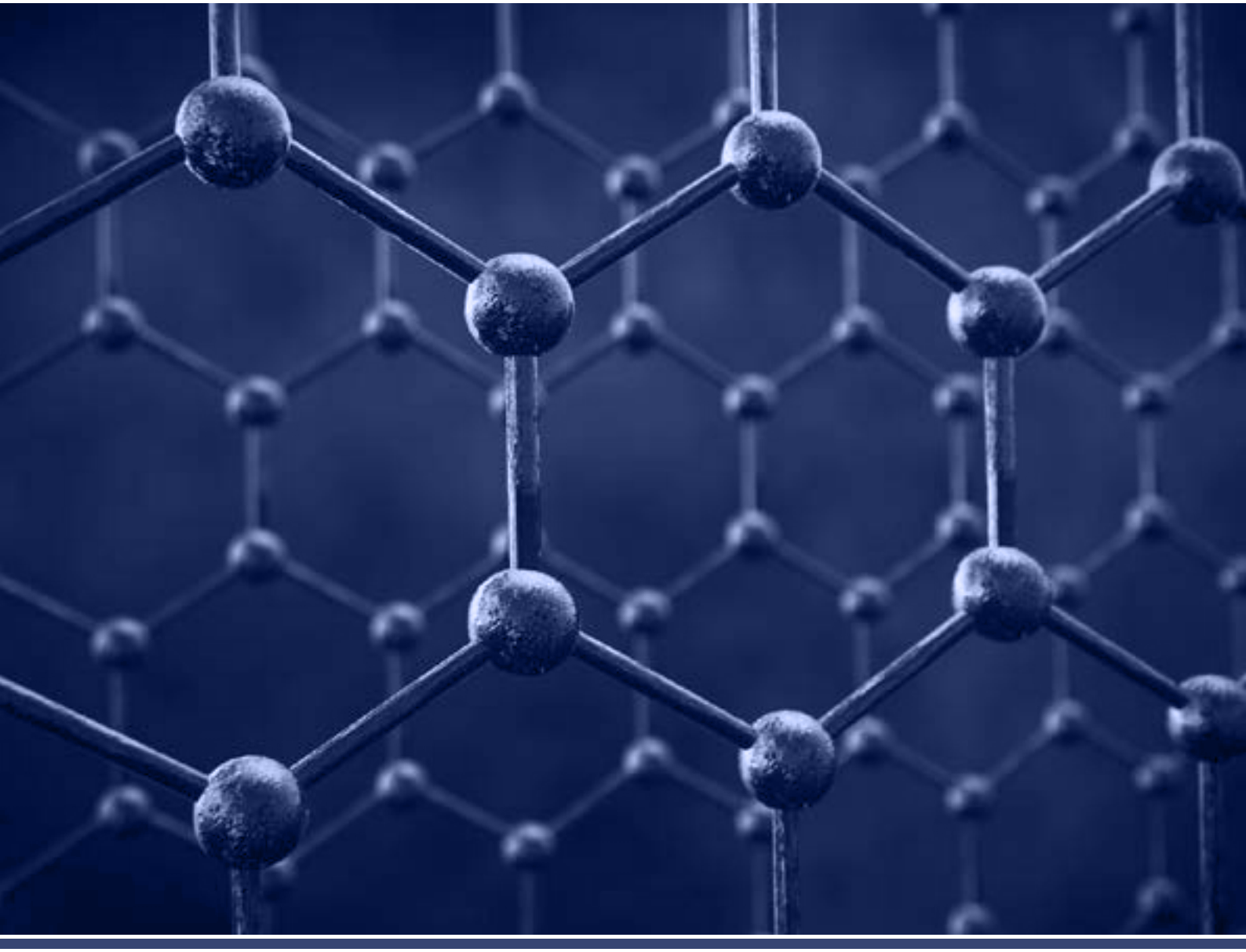
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Day 1 September 07, 2017

Registrations

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Opening Ceremony

Keynote Forum

Introduction

Title: Direct recording of myosin head power and recovery strokes in hydrated myosin filaments provides evidence against the swinging lever arm mechanism in muscle contraction

Haru Sugi, Teikyo University Medical School, Japan

Title: The skeleton microporous materials with coatings inside the pores for medical and dental applications

Leszek Adam Dobrzanski, World Academy of Materials and Manufacturing Engineering, Poland

Title: Single wall and multiwall WS_2 nanotubes synthesis and characterization - the update

Alla Zak, Holon Institute of Technology, Israel

Networking and Refreshments Break

Sessions: Advancement in Nanomaterials Science And Nanotechnology | Coatings and Surface Engineering | Functional Materials

Session Chair: Hideo Miura, Tohoku University, Japan

Session Introduction

Title: Evaluation of atomic scale damages of advanced materials based on the order of atom arrangement

Hideo Miura, Tohoku University, Japan

Title: Thermokinetic modeling and simulation of complex phase transformations in the framework of advanced functional materials

Erwin Povoden-Karadeniz, Institute of Materials Science and Technology, Austria

Title: Evaluation of sputtered PZT thin films on Ti-substrates upon re-crystallization with a thin Pb-overcoat

Ankita ghatak, S.N.Bose National Centre For Basic Sciences, India

Title: Modification of ground state property on size reduction to 1D

Barnali Ghosh (Saha), S.N.Bose National Centre For Basic Sciences, India

Title: Towards conductive textiles: coating polymeric fibres with graphene

Ana neves, University of Exeter, UK

Title: Functionalization of cocoa shell (CS) surfaces using nanoparticles and their application in CO_2 storage

Julien vieillard, University of Rouen Normandie, France

Lunch Break

Session Chair: Manfred Martin, RWTH Aachen University, Germany

Title: Low friction, wear resistant quasicrystalline coatings
Jean marie dubois, Université de Lorraine, France
Title: Hafnium and palladium modified aluminide coatings
Jolanta Romanowska, Rzeszów University of Technology, Poland
Title: Resistive switching in highly disordered thin oxide films
Manfred Martin, RWTH Aachen University, Germany
Title: TiO_2 nanotubes as potential vascular stents: Effect of oxygen plasma treatment on crystal structure and surface properties
Metka bencina, Jožef Stefan Institute, Slovenia
Title: Particle size versus energetics of nanomaterials: Key parameters controlling the stability and reactivity of nanostructured materials
Speranta Tanasescu, Institute of Physical Chemistry Ilie Murgulescu of the Romanian Academy, Romania
Title: Formation of carbon-based nanostructures from carbon suboxide decomposition at high pressure and temperature – a ReaxFF study
Xavier bidault, Commissariat Energie Atomique, France
Title: Starch capped silver nanoparticles as colorimetric sensor for hydrogen peroxide recognition in aqueous medium
Abdelaziz Elgamouz, University of Sharjah, UAE

Networking and Refreshments Break

Sessions: Advanced Biomaterials, Bio devices & Tissue Engineering | Advanced Ceramics and Composite Materials

Session Chair: Garcia Garcia Francisco, University of Edinburgh, Scotland

Title: Design of nanostructured powders and mechanical properties of WC-AISI 304 stainless steel composites
Ana senos, University of Aveiro, Portugal
Title: Thermal characterization of a thermoplastic resin for resin transfer molding in process conditions: Demonstrating of the feasibility of the technology
Bailleul Jean-Luc, Laboratoire de Thermocinétique de Nantes, France
Title: Thermoelectric oxides processed by a laser floating zone technique
Nuno M. Ferreira, University of Aveiro, Portugal
Title: LIPSS stimulate stem mesenchymal cells differentiation to osteoblasts in titanium and tantalium
Alberto Jorge Mora, Universidad de Santiago de Compostela, Spain
Title: Biological cell inspired reactors for an increasing population world
Garcia Garcia Francisco, University of Edinburgh, Scotland
Title: Synthesis of Nano $CaCO_3$ and Hydroxyapatite by Sol-Gel methods, on spores and in 3D-printed Ca^{2+}-crosslinked PVA hydrogels and their use in bone regeneration
Paul Sermon, Brunel University, UK

Breakout @ Edradour

Sessions: Materials Processing and characterization | Materials for Energy application& Energy storage

Session Chair: Alexandre Maitre, University of Limoges, France

Title: Atomic layer deposition routes to monolithic integration of crystalline oxides on semiconductors
John Ekerdt, Univerisity of Texas at Austin, USA
Title: Tailoring compatibility in ultrapermeable polymer blends to switch off plasticization and physical ageing
Lau Sam, University of Edinburgh, Scotland
Title: Mechanism of spark plasma sintering of high temperature ceramics such as carbides
Alexandre Maitre, University of Limoges, France
Title: Testing methodologies for thermo-mechanical fatigue evaluation in advanced aerospace materials
Mark Whittaker, Swansea University, UK
Title: Characterization of energy materials by neutron scattering
Martin Jones owen, Science and technology facilities council, UK
Title: Permanent magnets in energy applications for the clean environment
Spomenka Kobe, Jožef Stefan Institute, Slovenia

Lunch Break

Sessions: Advanced Materials Engineering | Materials Science and Engineering | Emerging Areas of Materials Science

Session Chair: Masumi Saka, Tohoku University, Japan

Title: Interaction of nanoparticles with amino acids and a physiologically important model protein studied by spectroscopic techniques
Karolína M. Šišková, Palacký University in Olomouc, Czech Republic
Title: Kovacs effect and the relation between glasses, supercooled liquids and crystals
Francesco Aliotta, Istituto per i Processi Chimico-Fisici, Italy
Title: Co-electrodeposition of Zn-rich Cu-Zn-Sn metallic alloy and its conversion to Cu_2ZnSnS_4 and $Cu_2ZnSnSe_4$ photovoltaic absorber films
Ali Rakhshani, Kuwait University, Kuwait
Title: Surface mechanics design of metallic materials by cavitation peening
Hitoshi soyama, Tohoku University, Japan
Title: Fatigue analysis of a failed connecting rod in race car engine
Klaudio Bari, University of Derby, UK
Title: Crack/damage evaluation and micro-materials fabrication in the relation with electric field
Masumi Saka, Tohoku University, Japan
YRF: Heat transfer performance of double-layer porous copper produced by tape casting with lost carbonate sintering
Mosalagae Mosalagae, Sheffield Univeristy, UK

Networking and Refreshments Break

Session Chair: Klaudio Bari, University of Derby, UK

Title: Advanced polydimethylsiloxane-urea copolymer basedmasterbatches with multiple functionality
Hans-Joachim Radusch, MLU Halle, Germany
Title: Sculpture art and fashion design
Mayssa El Fare, Damietta University, Egypt
Title: Material science and fashion design
Nashwa El Shafey, Damietta University, Egypt
Title: Structures, interactions and optical responses from polymer and polymer nanocomposites
Sarathi Kundu, Institute of Advanced Study in Science and Technology, India
Title: Recent advances in polylactic acid based blends, composites and nanocomposites for packaging and barrier applications
Kartikey Verma, Chandigarh University, India

Day 2 September 08, 2017

Balvenie Glenmorangie

Keynote Forum

Title: Influence of non-Newtonian behavior of polymers on their processing characteristics
Mosongo moukwa, PolyOne Corporation Designed Structures and Solutions LLC, USA
Title: Continuous nanocrystallizing of medicaments by spray flash evaporation
Denis Spitzer, NS3E Laboratory, ISL-CNRS-UNISTRA, France
Title: Hybrid biomaterials for nanobioelectronic device: toward biocomputing system
Jeong-Woo Choi, Sogang University, Korea

Networking and Refreshments Break

Title: Molten salts & molten salts technology: past, present and future in materials and processing technology
Francisco Javier Perez Trujillo, Universidad Complutense de Madrid, Spain
Title: SERS tag-therapeutic drug delivery, multimodal imaging, multiplexed sensing and diagnosis metal-nanosystems
Nekane Guarrotxena, Institute of Polymer Science and Technology, Spanish National Research Council, Spain

Sessions: Materials Engineering and Performance | Materials For Engineering and Environmental Sustainability | Metals, Metallurgy and Materials | Polymers Science and Engineering | Optical, Electronic and Magnetic Materials

Session Chair: Nekane Guarrotxena, Institute of Polymer Science and Technology, Spanish National Research Council, Spain

Session Chair: Sylvain G.Cloutier, École de Technologie Supérieure, Canada

Session Introduction

Title: Adsorptive removal of sulfur compounds using Cu^{2+}-based porous coordination polymers
Masashi morita, Panasonic Corporation, Japan

Title: Key role of the liquid-surface interactions to reveal hidden elastic properties in liquids
Laurence Noirez, Université Paris-Saclay, France

Title: Influence of nickel and aluminum additions on the microstructure and tensile properties of innovative, free-carbon, 10% cobalt maraging composit steel
Saied Elghazaly, Central metallurgical R&D Inst, Egypt

Title: Functionalized well-defined polymeric nanostructures for biomedical applications
Efrosyni Themistou, Queen's University Belfast, UK

Lunch Break

Title: The performance of polypropylene fibre reinforced concrete: Mechanical properties
Noor faisal Abas, Universiti Sains Malaysia, Malaysia

YRF: Polymeric nanoparticles and gels: modeling of dynamic behavior and properties using Discrete Element Method
Martin Kroupa, University of Chemistry and Technology Prague, Czech Republic

Title: High-performance perovskite hybrids for printable optoelectronics
Sylvain G.Cloutier, École de Technologie Supérieure, Canada

Title: Hydrogen production from water using the sun via photocatalytic processes on Au/g-C_3N_4/TiO_2 materials
Valerie Keller, Institute of Chemistry and Processes for Energy, Environment and Health, France

Title: On unified approach in description of crysttalline structures in discrete space
Vladimir Shevcheko, Institute of Silicate Chemistry RAS, Russia

Video Presentations

Title: Engineering columnar crystals: A novel, template-based method of sequential deposition
Ho-kei Chan, Harbin Institute of Technology, China

Title: Microstructure development affected by electrode geometry during resistance spot welding
Peng-Sheng wei, National Sun Yat-Sen University, Taiwan

Networking and Refreshments Break

Poster Presentations

Poster Judges: Speranta Tanasescu & Valerie Keller

AM-01 **Title: Luminescence of morphologically-controlled calcium silicon nitride particles through combined techniques of ultrasonic spray pyrolysis and carbothermal reduction/ nitridation**
Satoshi ono, Sophia University, Japan

AM-02 **Title: Natural plant-derived polymer fabricated with sugar-containing hydroxyapatite for biocompatible bone-hemostasis**
Yeonjeong Noh, Sophia University, Japan

AM-03 **Title: Title: Encapsulation of oxynitride phosphors into sintered Li_2O-ZnO-B_2O_3-P_2O_5-CaF_2 glass body**
Nanako akiyama, Sophia University, Japan

AM-04 **Title: Electrochemical decoration of MoS_2 nanoplatelet arrays with Pt quantum dots for high efficient water splitting**
Arnas Naujokaitis, Vilnius University, Lithuania

AM-05	**Title: Detachable photocatalysts of anatase TiO_2 nanoparticles: Annulling surface charge for immediate photocatalyst separation** **Al-Hetlani,** Kuwait University, Kuwait
AM-06	**Title: Luminescence of Mn^{2+} and Eu^{3+} doped zinc phosphate glass** **Hector Octvaio Murrieta Sanchez,** Universidad Nacional Autónoma de México, México
AM-07	**Title: : Impact of the granularity of a high-explosive material on its shock properties** **Xavier bidault,** Commissariat Energie Atomique, France
AM-08	**Title: Green synthesized biocompatible anode in MFCs for sustainable wastewater treatments and energy recycling** **Ying Cheng,** University of Newcastle, Australia
AM-09	**Title: Fibers made by centrifugal spinning technology** **Jana Hlavata,** Technical University of Liberec, Czech Republic
AM-10	**Title: Preparation of composite scaffolds from micro / nano fibers and biocompatible hydrogels** **Radek Jirkovec,** Technical University of Liberec, Czech Republic
AM-11	**Title: Study of electrically conductive water-based polyurethane** **Valentina Caba,** University of Brescia, Italy
AM-12	**Title: Study of the mechanical and surface properties of the composites commonly used in lightweight constructions** **Donata Kuczyska,** Warsaw University of Technology, Poland
AM-13	**Title: The study of point defect properties of Fe-Cr alloys: First-principles calculations** **Marcin Zemla,** Warsaw University of Technology, Poland
AM-14	**Title: Materials selection for modern and mobile medical constructions** **Agata Sotniczuk,** Warsaw University of Technology, Poland
AM-15	**Title: Hybrid polymer nanofibers** **Stanislav Nevyhosteny,** Technical University of Liberec, Czech Republic
AM-16	**Title: One pot synthesis of acid doped polypyrrole and investigation of its visible light driven dye degradation and room temperature ferromagnetic properties** **Sanchoyita Nag,** Indian Institute of Engineering Science and Technology, India
AM-17	**Title: Catalytic oxidation of methane into methanol over copper exchanged zsm-5 zeolites** **Madina Ryssakova,** The University of Edinburgh, Scotland

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Scientific Program

Day 1 June 13, 2016

Registrations

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Opening Ceremony

Keynote Forum

Introduction

Title: High temperature solar cell for single facility co-generation of photovoltaic and thermal electricity: A breakthrough approach to affordable solar power

Dieter M Gruen, Dimerond Technologies LLC, USA

Title: Liquid cell electron microscopy revealed a number of mysteries in molecular mechanism of muscle contraction

Haruo Sugi, Teikyo University, Japan

Group Photo & Coffee Break

Special Session on **The fourth phase of water: Beyond solid, liquid, and vapor**

by: Gerald Pollack, University of Washington, USA

Track 1: Materials Science and Engineering
Track 13: Entrepreneurs Investment Meet

Session Introduction

Session Chair: Maria Pilar de Miguel Ortega, Centre for the Development of Industrial Technology, Spain

Session Co-chair: Oscar Juan Dura, Castilla-La Mancha, Spain

Title: Centre for the development of industrial technology: Funding opportunities for materials industries in Spain
Maria del Pilar de Miguel Ortega, Centre for the Development of Industrial Technology, Spain
Title: Transport properties on nanostructured oxides: Grain boundary effects
Oscar Juan Dura, Castilla-La Mancha, Spain
Title: Supercapacitors based in 3D graphene foams
Jorge Pedros, Technical University of Madrid, Spain
Title: Bioinspired gradient surfaces with controlling of water collection/repellency
Yongmei Zheng, Beihang University, China

Lunch Break

Title: New advances in antennas for micro- and millimeter wave communications based on emerging materials and reconfigurable structures
Juan Jose Vegas Olmos, Technical University of Denmark, Denmark
Title: Overview of NFFA-Europe
Dorian Martin, NFFA-Europe, France

Track 2: Nanomaterials

Session Introduction

Session Chair: Elena Cerro Prada, Technical University of Madrid, Spain

Session Co-chair: Alexander Axelevitch, Holon Institute of Technology, Israel

Title: Synthesis and microstructural characterization of highly active nanocrystalline titania for enhanced photoactivity
Elena Cerro-Prada, Technical University of Madrid, Spain
Title: Aluminum based nanostructures for biosensing
Alexander Axelevitch, Holon Institute of Technology, Israel
Title: Optical active plasmonic nanoassemblies for sensory applications
Nekane Guarrotxena, Spanish National Research Council, Spain
Title:Nanostructure control in tungsten trioxide (WO_3) thin films for improved electochromic properties
Pandurang Ashrit, Université de Moncton, Canada
Title: Catalytic decomposition of N_2O over Au/oxides
Sónia A C Carabineiro, University of Porto, Portugal

Coffee Break

Title: Rapid and clean methodology to synthesize alcoholic suspensions of calcium hydroxide nanoparticles
Juan Antonio Madrid, National Center of Reference for Chemical VET, Spain
Title: Nanohybrids based on multi-stimuli responsive polymers and inorganic nanoparticles: Design and functional properties
Nekane Guarrotxena, Spanish National Research Council, Spain
Title: Synthesis of nanocarbon dots from spicy food and study of their *in-vitro* anticancer potential
Nagamalai Vasimalai, International Iberian Nanotechnology Laboratory, Portugal
Title: Nanoconfined reactions in clay nanotubes based on metal salt loading
Anna Stavitskaya, I.M.Gubkin Russian State University of Oil and Gas, Russia
Title: Carbon nanotubes doped with metal oxide nanoprticles as new materials for oil removal
Ahmad Kayvani Fard, Hamad Bin Khalifa University, Qatar
Title: Development of adsorption treatment by iron oxide nanoparticles and biological degradation in mimetic column for maaged aquifer recharge
Soon-Uk Yoon, INHA University, South Korea

Day 2 June 14, 2016

Terra Mitica

Keynote Forum

Title: Consequences of the physical foundation of the exponent 3/2 in pyramidal/conical (nano) indentations for the mechanical parameters and for daily life
Gerd Kaupp, University of Oldenburg, Germany

Track 3: Biomaterials
Track 4: Metals and Alloys
Track 5: Ceramics, Polymers and Composite Materials

Session Introduction

Session Chair: Ignacio Martin Gullon, University of Alicante, Spain

Title: New technology for toughened and reinforced PLLA with phosphorous glass to form nanocomposites for bioresorbable vascular scaffold applications
Xiang Zhang, University of Cambridge, United Kingdom
Title: Delamination resistances improvement of carbon fiber composites with tailored graphene oxide
Ignacio Martin Gullon, University of Alicante, Spain
Title: Gas turbine blade tip alloy selection for alloy-247LC
Thaddeus Strusinski, Siemens Energy USA North Carolina Winston-Salem Service Center, USA

Coffee Break

Title: CIMBNC- Combination and interactions of three kinds of nanoclays structural modifiers, for the colored bio-nanocomposites optimization
Bàrnbara Micó Vicent, University of Alicante, Spain
Title: Rheological analysis of micro-structured adhesives derived from castor oil conjugates
Harshal D Santan, Universidad de Huelva, Spain
Title: Thermo Optical Switching of Paraffin wax hosting carbon fillers
Abeer Salah, Cairo University, Egypt
Title: Plasma electrolytic oxidaNanoarchitectures in designing polymer sensors
Deepalekshmi Ponnamma, Qatar University, Qatar
Title: To develop a biocompatible and biodegradable polymer-metal composite with good mechanical and drug release properties
Murtaza Najabat Ali1, National University of Sciences and Technology, Pakistan

Lunch Break

Poster Presentations

MSC-01	**Title: A new biomaterial in the subsystem nurse´s A-phase-silcocarnotite**
	Piedad N De Aza, Universidad Miguel Hernández, Spain
MSC-02	**Title: Influence of hydroxyapatite granule size, porosity and crystallinity on tissue reaction, *in vivo* characterization of the materials and *in vivo* SEM analysis**
	Maria Piedad Ramírez Fernández, Universidad Católica San Antonio de Murcia, Spain
MSC-03	**Title: Post polymerization functionalization of soluable poly(2,5-dithienylpyrrole)s**
	Pinar Camurlu, Akdeniz University, Turkey
MSC-04	**Title: Effect of curing temperature on sol-gel formed glass coatings containing hBN nanoparticles**
	Hasan Erdem Çamurlu, Akdeniz University, Turkey
MSC-05	**Title: Three dimensional PEDOT nanowires by electrochemical polymerization**
	Antonio García Barberá, University of Valencia, Spain
MSC-06	**Title: Refined parameters for cations and anions in aqueous solution for atomistic force fields**
	Tariq Jamil, University of Colorado Boulder, USA
MSC-07	**Title: Adsorption of graphene oxide onto synthetic fibers**
	Ivan Plaza, University of Granada, Spain
MSC-08	**Title: Polyamide fibers coated with chlorhexidine**
	Miguel López, University of Granada, Spain
MSC-09	**Title: Poly(acrylic acid)/Polyethylene glycol hygrogel prepared by using gamma-ray irradiation for mucosa adhesion**
	Deok-Won Lee, Kyung Hee University, Korea
MSC-10	**Title: Efficient adsorbent for immobilization of caesium on contaminated areas**
	Aleksey Vasiliev, East Tennessee State University, USA

Track 3: Biomaterials
Track 4: Metals and Alloys
Track 5: Ceramics, Polymers and Composite Materials

Title: The potential of ceramic particles in coatings with improved scratch and wear resistance
Caterina Lesaint Rusu, Norwegian University of Science and Technology, Norway
Title: Plasma electrolytic oxidation of AA 7075 with silver sub micrometric powder: A new biocide and corrosion protective coating for aluminum alloys
Pietrogiovanni Cerchier, University of Padova, Italy
Title: *In vitro* and *in vivo* studies of dextran-based materials for peripheral nerve regeneration
Catarina Pinho, University of Coimbra, Portugal
Title: An investigation into the performance of metal coated additively manufactured polymer lattice structures
Muhammad Farhan Khan, University of Derby, UK
Title: Mechanical performance of novel thin ply thermoplastic composites
Somen K Bhudolia, Nanyang Technological University, Singapore

Track 6: Electronic, Photonic and Magnetic Materials
Track 8: Materials Science in Building and Construction Engineering
Track 9: Advanced Energy Materials

Session Introduction

Session Chair: David A Jackson, University of Kent, UK

Session Co-chair: María Teresa Pérez Prior, Universidad Carlos III de Madrid, Spain

Title: Multichannel fibre laser Doppler vibrometer studies of hypervelocity impacts

David A Jackson, University of Kent, UK

Title: Synthesis and characterization of DABCO-functionalized polysulfones as anion-exchange membranes for fuel cells applications

María Teresa Pérez Prior, Universidad Carlos III de Madrid, Spain

Coffee Break

Title: New developments in polybinary modulation for bandwidth limited channels

J J Vegas Olmos, Technical University of Denmark, Denmark

Title: Advanced materials oriented to an improved energy efficiency in buildings

Estibaliz Aranzabe, IK4-Tekniker, Spain

Title: Hybrid multi-material optical fibers

Fabien Sorin, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland

Title: Investigation of regularities of photoluminescence centers formation in Fe^{2+} doped CVD-ZnSe by the two-photon confocal microscopy method

N A Timofeeva, Russian Academy of Sciences, Russia

Title: Conducting polymers as an alternative for classical thermoelectric materials

Mario Culebras Rubio, University of Valencia, Spain

Poster Presentations

MSC-11	**Title: Synthesis and characterization of nanoparticles III-V semiconductor core/shell (InP/ZnS)**
	Jose Eladio Flores Mena, Instituto Politécnico Nacional, México
MSC-12	**Title: Synthesis and characterization of chemical-bath deposition CdPbxS1-x nanofilms**
	Jose Eladio Flores Mena, Instituto Politécnico Nacional, México
MSC-13	**Title: Synthesis, functionalization and antimicrobial activity of a near-IR photoactive gold multibranched tags**
	Lyutakov Oleksiy, Institute of Chemical Technology, Czech Republic
MSC-14	**Title: Light-activated antibacterial nanofibers**
	Elashnikov Roman, University of Chemistry and Technology, Czech Republic
MSC-15	**Title: Platform for smart SERS sensors based on surface-modified metal plasmonic thin films**
	Guselnikova Olga, University of Chemistry and Technology, Czech Republic
MSC-16	**Title: Metal grating coupling with different nanoparticles for highly intensified SERS response**
	Kalachyova Yevgeniy, University of Chemistry and Technology, Czech Republic
MSC-17	**Title: Surface modification processes of modern bioresorbable polymers towards to the desired surface properties applying in the tissue engineering**
	Kristina Bastekova, UTC Prague, Czech Republic
MSC-18	**Title: Stability of aged ethylene norbornene copolymers used for medical devices**
	Wowro Sonia Rosine Lago, Univ Paris-Sud, France
MSC-19	**Title: Plasma generated nitrogen functionalities on polymeric bone implants for upregulating osteogenesis**
	Wei Zhang, The Chinese Academy of Sciences, China
MSC-20	**Title: Optical response materials design and synthesis: Sensor, LCD color filter, chromic and others**
	Young-A Son, Chungnam National University, South Korea

Day 3 June 15, 2016

Terra Mitica

Track 7: Materials Chemistry
Track 10: Materials and Environmental Effects
Track 11: Advanced Materials and Tools
Track 12: Materials in Industry

Session Introduction

Session Chair: Josep Vives, Proquimia S.A., Spain

Session Co-chair: Hanumantha Rao Kota, Norwegian University of Science and Technology, Norway

Title: The times are changing. New surface treatments based on nanoceramics coatings

Josep Vives, Proquimia S.A. Vic, Spain

Title: Implications in sulphide mineral processing with new insights into metal sulphides oxidation during grinding by H_2O_2 generation

Hanumantha Rao Kota, Norwegian University of Science and Technology, Norway

Title: Plasmonics for plasmon-enhanced single-molecule spectroscopy

Yuko S Yamamoto, Kagawa University, Japan

Coffee Break

Title: Probing optical, phonon, thermal and defect properties of 3C-SiC/Si (001)

Devki N Talwar, Indiana University of Pennsylvania, USA

Title: Preparation of polyamide microspheres with tunable morphology and size for use in SLS processing

Gexia Wang, The Chinese Academy of Sciences, China

Title: Breathe2Seat – New methodologies for assessing comfort and moisture management in automotive seats

Anabela Carvalho, Centre for Nanotechnology and Smart Materials, Portugal

Title: Mechanism of molecular interaction of superplasticizer oligomers with hydrated cement phases

Tariq Jamil, University of Colorado Boulder, USA

Title: Effect of the composition and production process parameters on the microstructure, residual stresses, mechanical and corrosion properties of gold alloys used in industrial processes

C Cason, University of Padua, Italy

Title: Corrosion and wear resistance of PEO coatings containing graphite nanoparticles produced on magnesium alloys

L Pezzato1, University of Padua, Italy

Title: Elucidating the mechanisms of ultrafiltration for wastewater treatment in the presence of surface active molecules and aggregates

Aybike Nil Olcay, Izmir Institute of Technology, Turkey

Panel Discussion

Award Ceremony

Lunch Break

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