Tentative Program

3rd Annual conference on

Biomaterials

March 05-06, 2018 Berlin, Germany



Interactive Sessions | Keynote Lectures | Plenary Lectures | Workshops | Exhibitors | B2B Meetings

For available speaker slots

biomaterials@annualconferences.org

3rd Annual Conference on conferenceseries.com

Biomaterials

March 05-06, 2018 Berlin, Germany

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)		
			Advanced Materials
	11.00-12.40		Tissue Engineering and Regenerative Medicine
			Biomaterials Applications
	Lunch Break 12.40-13.30		
Evening Sessions			Biomaterials and Nanotechnology
	13.30-15.30		Properties of Biomaterials
			3D printing of Biomaterials
	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	Keynote Forum
	Coffee/Tea Break 10.40-10.55 (Networking)			
	10.55-12.35		Dental Biomaterials	Biophotonics and Biomedical Optics
	Lunch Break 12.35-13.25			
Evening Sessions	13.25-15.05		Polymer Biomaterials	Biobased Materials and Sustainability
	Coffee/Tea Break 15.05-15.20 (Networking)			
	15.20-17.00		Biomaterials in Delivery Systems	Biodegradable Biomaterials
	Poster Presentations@ 17.00- 18.00			
	Awards & Closing Ceremony			

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

Conference Highlights

- Dental Biomaterials
- Advanced Materials
- Tissue Engineering and Regenerative Medicine
- Biomaterials Applications
- Biomaterials Companies and Market Analysis
- Polymer Biomaterials
- Biophotonics and Biomedical Optics
- Biomaterials and Nanotechnology
- Properties of Biomaterials
- 3D Printing of Biomaterials
- Bio-based Materials and Sustainability
- Biomaterials in Delivery Systems
- Biodegradable Biomaterials
- Entrepreneurs Investment Meet

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Glimpses of Biomaterials Congress 2017













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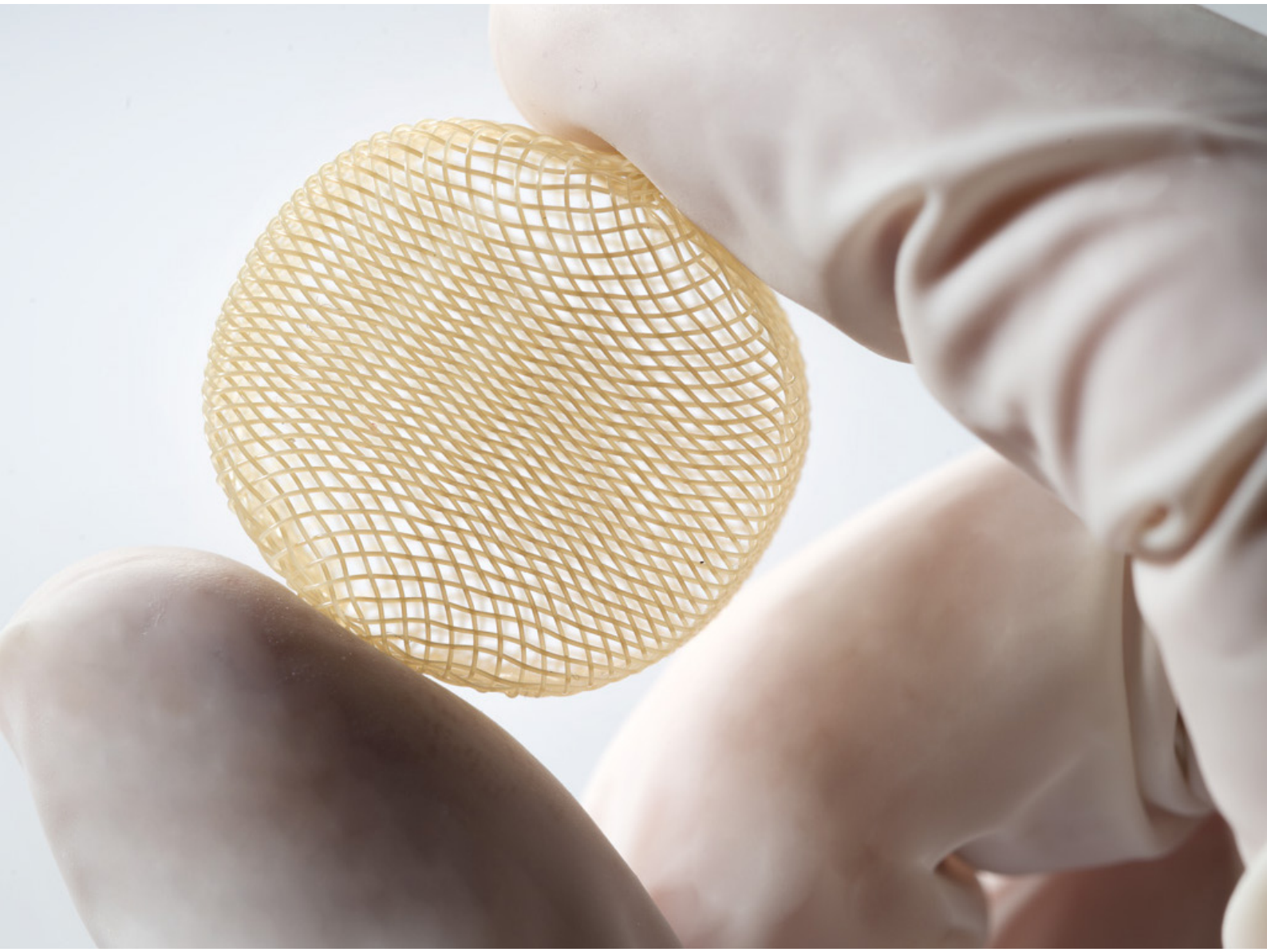
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914th Conference

Scientific Program

Proceedings of
2nd Annual Conference and Expo on

Biomaterials

March 27-28, 2017 Madrid, Spain



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Day 1 | March 27, 2017

Registrations

Avila

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Opening Ceremony

Keynote Forum

Introduction

Title: Science and technology of multifunctional ultrananocrystalline diamond (UNCD™) coatings and applications to a new generation of implantable medical devices

Orlando Auciello, University of Texas at Dellas, USA

Title: An improved biofabrication process to enhance cell survival and distribution in bioprinted scaffolds for cartilage regeneration

Jose Manuel Baena, BRECA Health Care, Spain

Group Photo and Coffee Break

Sessions:

Tissue Engineering and Regenerative Medicine | 3D Printing of Biomaterials | Biomaterials Applications

Session Chair: Elisabeth Engel, University of Catalonia, Spain
Session Co-Chair: Miguel Angel Mateos Timoneda, CIBER-BBN, Spain

Session Introduction

Title: Tailoring microenvironments for *in situ* regeneration
Elisabeth Engel, University of Catalonia, Spain
Title: Biomaterials as a tool for teaching and learning training programs on surgery
Avelina Sotres Vega, National Institute of Respiratory Diseases, Mexico
Title: Design of a composite bioink for bioprinting applications
Miguel Angel Mateos Timoneda, CIBER-BBN, Spain
Title: Development of nanostructured biomaterials for bone and osteo-articular regeneration
Sybille Facca, University of Strasbourg, France
Title: Design and characterization of bioinks with hyaluronic acid for tissue and bone-3D bioprinting
Jose Manuel Baena, BRECA Health Care, Spain

Lunch Break:

Title: The effect of scaffold topography on behavior of dental pulp stem cells
Deniz Yucel, Acıbadem University, Turkey
Title: Bio-inspired microstructures for directional liquid transport
Cristina Plamadeala, Johannes Kepler University Linz, Austria

Sessions:

Advanced Biomaterials | Biomaterials and Nanotechnology

Session Chair: Mónica López Fanarraga, Instituto de Investigación Sanitaria Valdecilla, Spain
Session Co-Chair: Isabel Rodriguez, IMDEA-Nanoscience, Spain

Title: Bio-degradable carbon nanotubes display intrinsic anti-tumoral effects
Mónica López Fanarraga, Instituto de Investigación Sanitaria Valdecilla, Spain
Title: Modulation of cell behavior on artificial materials by functional nano-topographies for applications in regenerative medicine
Isabel Rodriguez, IMDEA-Nanoscience, Spain
Title: Two stage, dual action cancer therapy with targeted porous silicon nanoparticles
Anna Cifuentes-Rius, Monash University, Australia

Networking & Refreshment

Title: Metallic 3D-printing for orthopedic surgery: question of surface and cell compatibility
Michaela Fousova, UCT Prague, Czech Republic

Video Presentation

Title: Stages for pore formation during fabrication of porous materials
Peng-Sheng Wei, National Sun Yat-Sen University, Taiwan

Day 2 | March 28, 2017

Keynote Forum

Title: Fibrin interactions with matrix dependent cells: Applications and mechanism
Raphael Gorodetsky, Hadassah Medical Centre, Israel

Sessions:

Polymer Biomaterials | Dental Biomaterials | Properties of Biomaterials

Session Chair: Thierry Delair, University of Lyon, France
Session Co-Chair: Jose Ramon Sarasua, University of the Basque Country, Spain

Session Introduction

Title: Polyelectrolyte nano-complexes-Safe and efficient tools for the delivery of drugs or vaccine
Thierry Delair, University of Lyon, France

Networking & Refreshment

Title: Biodegradable polyesters for biomedical applications: Alternatives to polylactides and polylactones
Jose Ramon Sarasua, University of the Basque Country, Spain
Title: A novel design of low cost Mastitis level measurement based on electrical resistivity
Ruchi Singla, Chandigarh Engineering College, India
Title: An analysis of dental implant materials with an exclusive focus on Zirconia Vs Titanium
Saurabh Gupta, Axiss Dental Pvt Ltd, India
Title: The use of Silica nano-particles and microwave irradiation in dental PMMA repairs: Experimental investigation into the mechanical properties and dimensional stability of the repaired PMMA after aging
Nour el Houda, University of Monastir, Tunisia

Lunch Break

Poster presentations

BM 01	**Title: Development of scaffolds for Regenerative Medicine** **Jose Manuel Baena,** BRECA Health Care, Spain
BM 02	**Title: Novel extended-released polymeric matrix for Monascus fermented rice extract (RYR) delivery** **Marco Consumi,** University of Siena, Italy
BM 03	**Title: Wear particle embedded 3D agarose gels for biocompatibility testing of orthopedic medical devices** **Richard Hall,** University of Leeds, UK
BM 04	**Title: Dissolving microneedles: An attractive approach to transdermal drug delivery** **Nakeum Jang,** Raphas Co. Ltd., KOREA (South)
BM 05	**Title: Novel resorbable and osteoconductive nurse'A phase-silicocarnotite scaffold induced bone formation** **Patricia Mazon Canales,** Universidad Miguel Hernández, Spain
BM 06	**Title: Evaluation of anti-biofilm properties of titanium nitride coatings. An *in vitro* study** **Anna Arvidsson,** Dentsply IH AB, Sweden
BM 07	**Title: Isolation of low volumes of silicon nitride particles from tissue** **Richard Hall,** University of Leeds, UK
BM 08	**Title: Dissolving microneedles: An attractive approach to transdermal drug delivery** **Jung Dong Kim,** Raphas Co. Ltd., KOREA(South)
BM 09	**Title: Multi-walled carbon nanotubes (MWCNTs) as cytotoxic drug delivery systems in the treatment of cancer** **Eloisa Gonzalez-Lavado,** Universidad de Cantabria-IDIVAL, Spain

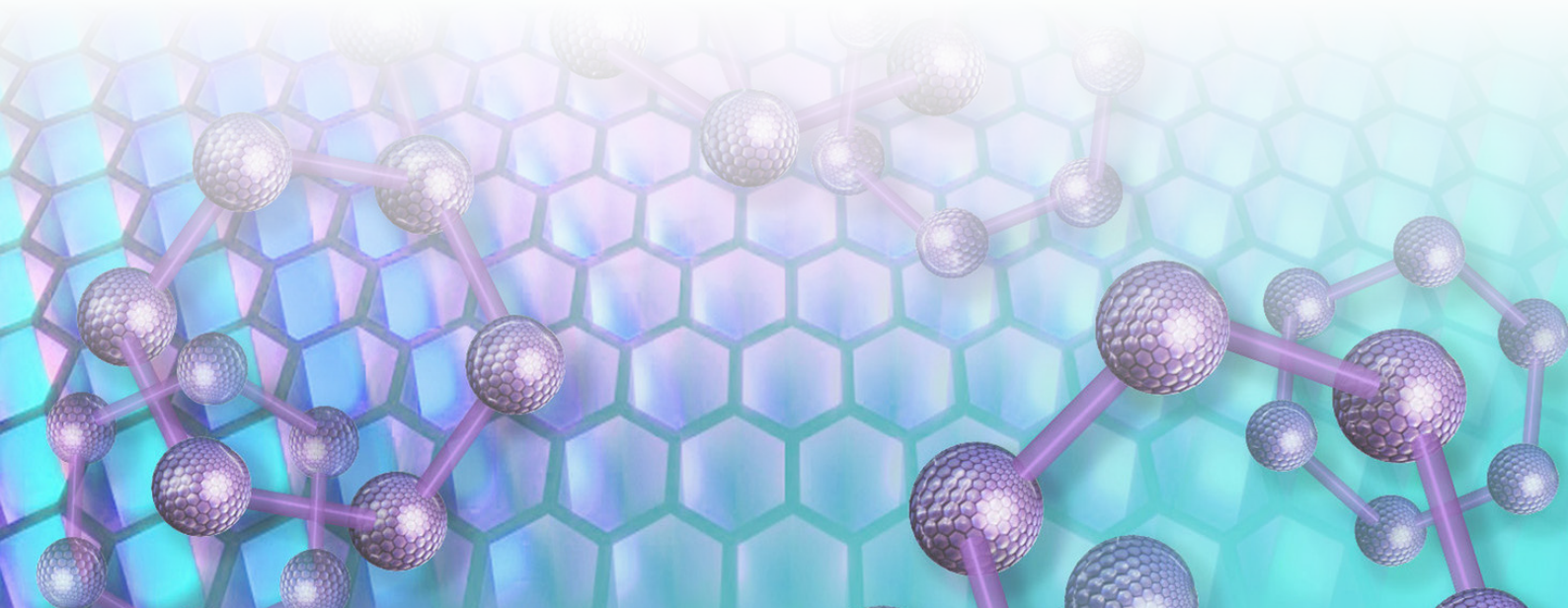
BM 010	**Title: Nanogels preparation for controlled bioactives' delivery** **Iordana Neamtu**, PETRU PONI Institute of Macromolecular Chemistry, Romania

Poster presentations

BM 011	**Title: Co-immobilization of glucose oxidase and catalase on electrodes' surface: A multifunctional tool for biosensing applications** **Tiago Monteiro**, Universidade NOVA de Lisboa, Portugal
BM 012	**Title: New method for magnetic composite deposition onto a stent surface** **Aurica P Chiriac**, PETRU PONI Institute of Macromolecular Chemistry, Romania
BM 013	**Title: Evaluation of anti-biofilm properties of titanium nitride coatings. An *in vitro* study** **Ingela Mattisson**, Dentsply IH AB, Sweden
BM 014	**Title: Production and characterization of bioceramic nanopowders of biological origin** **Zeynep Orman**, Yildiz Technical University, Turkey
BM 015	**Title: Nanostructures based on poly(aspartic acid) and bovine albumine by self assembling procedure** **Loredana Elena Nita**, PETRU PONI Institute of Macromolecular Chemistry, Romania
BM 016	**Title: Formation and characterization of biomimetic Calcium phosphate coatings on nanostructured surfaces of anodized Titanium** **Shaghayegh Javadi**, Tehran university, Iran

Networking & Refreshment

Award and Closing Ceremony



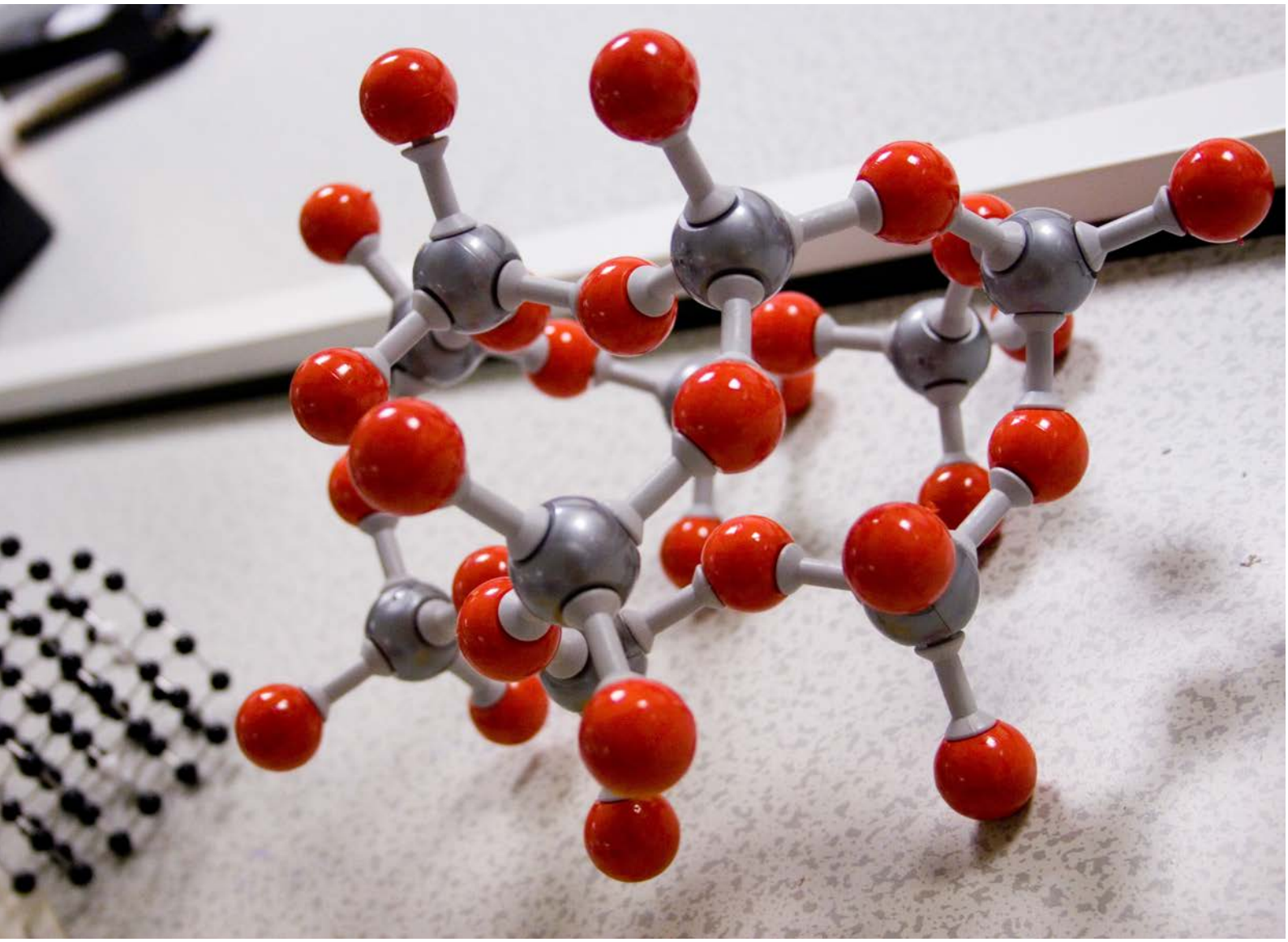
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Registrations

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 10:55-11:20 @ Foyer

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

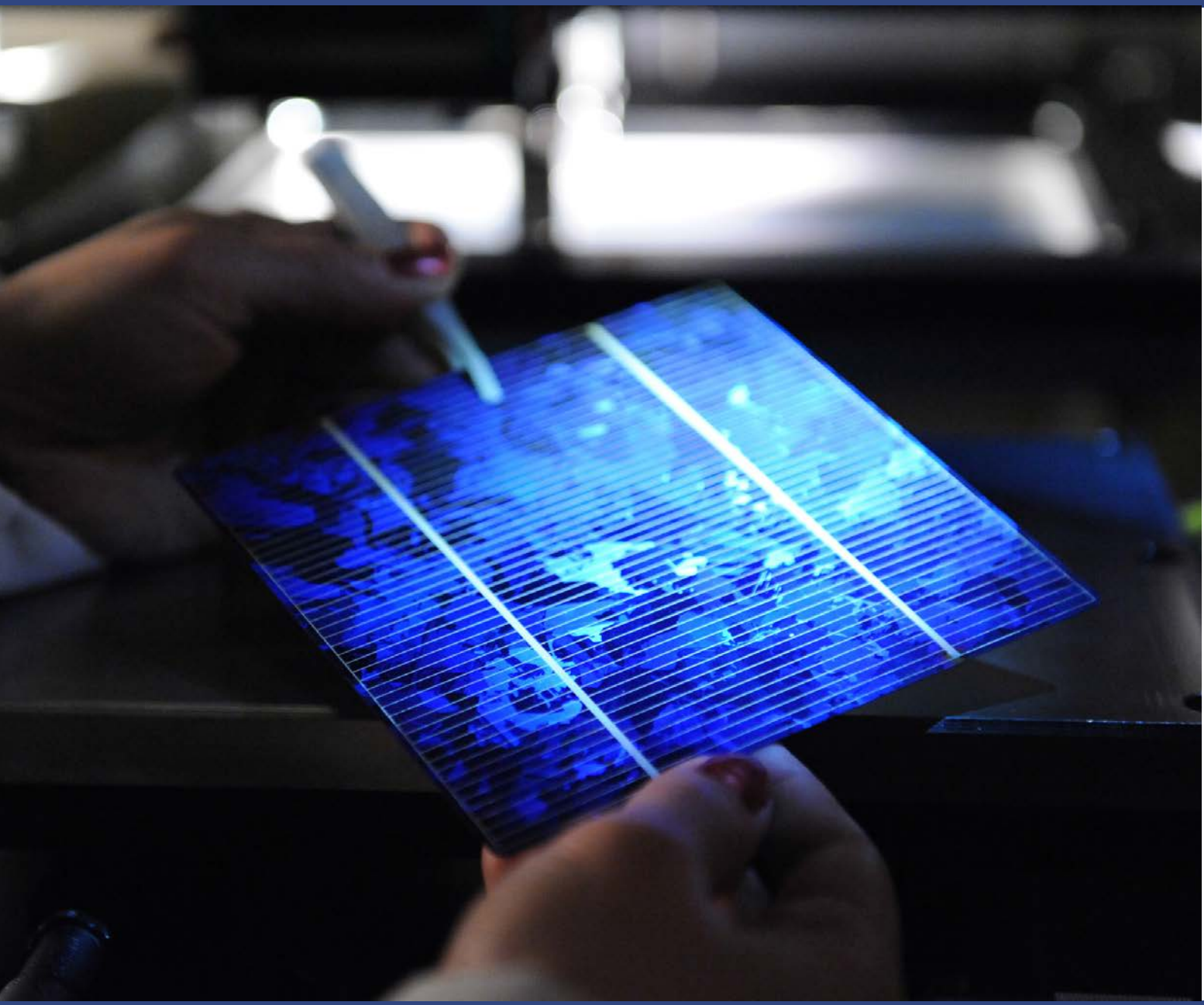
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Registrations

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 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

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 $FeWO_4$ 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 (February 21, 2017)

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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Day 1

Monday, March 14, 2016

Registrations Open

Madison

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Opening Ceremony

Keynote Forum

Introduction

Title: Bone graft substitute materials

Gordon Blunn, University College London, UK

Title: Electron microscopic recording of ATP-induced myosin head power and recovery strokes in hydrated muscle myosin filaments using a film-sealed hydration chamber

Haruo Sugi, Teikyo University, Japan

Coffee Break

Session Introduction

Sessions: Track 2: Polymer Biomaterials
Track 5: Biomaterials Applications
Track 17: 3D Printing of Biomaterials

Session Chair: Andrew Lewis, Biocompatibles UK Ltd, UK

Session Co-Chair: George Youssef, San Diego State University, USA

Title: Particulate embolization agents: Impact of biomaterial physicochemical properties on clinical performance

Andrew Lewis, Biocompatibles UK Ltd, UK

Title: Uncovering the fundamentals behavior of annulus fibrosus using composite mechanics

George Youssef, San Diego State University, USA

Title: A comparison of arterial distribution of bead prototypes in a rabbit renal artery embolization model

Hugh Kilpatrick, Biocompatibles UK Ltd, UK

Title: Profiling physiochemical properties of drug-eluting bead emulsions: *In vitro* design evaluation and clinical application

Marcus Caine, Biocompatibles UK Ltd, UK

Title: Folate-conjugated star branched PLLA-b-$(PEG)_2$ copolymer as nanocarrier for targeted delivery

Ing Hong Ooi, International Medical University, Malaysia

Lunch Break

Title: Thermoresponsive triblock copolymers as injectable gels

Theoni K Georgiou, Imperial College London, UK

Title: Encapsulated mesenchymal stem cells promote local neoangiogenesis by a paracrine effect

Andrew Lewis, Biocompatibles UK Ltd, UK

Title: Novel drug-eluting beads (DEBs) containing tyrosine kinase inhibitors (TKIs) for cancer therapy

Alice Hagen, Biocompatibles UK Ltd, UK

Sessions: Track 1: Advanced Biomaterials
Track 3: Dental Biomaterials
Track 8: Biomaterials Engineering
Track 9: Biomaterials: Synthesis and Characterization
Track 13: Biomaterials in Biological Engineering

Session Chair: Stella W Pang, City University of Hong Kong, Hong Kong

Title: Promoting cell migration in confined channels with bends

Stella W Pang, City University of Hong Kong, Hong Kong

Coffee Break

Title: Biocompatibility of new fiber-reinforced composite materials for craniofacial bone reconstruction
Horatiu Rotaru, Iuliu Hatieganu University of Medicine and Pharmacy, Romania
Title: Human embryonic kidney cell behaviour on a new β-type titanium alloy by Alamar Blue assay
Mehdi Razavi, Brunel University, UK
Title: From muscle balancing to capsular balancing MAASH technique for total hip arthroplasty (THA)
Felipe G. Delgado Lopez, Hospital Sant Celoni, Spain

Panel Discussion

Day 2

Tuesday, March 15, 2016

Madison

Sessions: Track 7: Biomaterials and Nanotechnology
Track 10: Tissue Engineering and Regenerative Medicine

Session Chair: Anand Ramamurthi, Cleveland Clinic, USA
Session Co-Chair: Dora Alicia Cortes Hernandez, CINVESTAV-Mexico, USA

Title: Cathepsin-K antibody-conjugated pro-matrix regenerative nanoparticles for abdominal aortic aneurysm repair
Anand Ramamurthi, Cleveland Clinic, USA
Title: Synthesis and characterization of $MnGaFe_2O_4$ magnetic nanoparticles for their potential use in biomedical applications
Dora Alicia Cortes Hernandez, CINVESTAV-Mexico, USA

Coffee Break

Title: Novel bioresorbable scaffolds for 3D cell culture and tissue repair
Donald A Wellings, SpheriTech Ltd, UK
Title: Innovative substituted hydroxyapatites and collagen scaffolds for enhanced adhesion, growth and proliferation of human osteoblasts *in vitro*
Maria Tomoaia Cotisel, Babes-Bolyai University, Romania
Title: Production of a new bio-inspired neuro-regeneration structure
Esra Altun, Marmara University, Turkey
Title: Dynamics of natural killer cells cytotoxicity in microwell arrays with connecting channels
Xu Yuanhao, City University of Hong Kong, Hong Kong

Lunch Break

Title: Electrospinning of PVDF aligned fibers and their potential in neural tissue engineering
Luanda Chaves Vieira Lins, National Institute of Applied Sciences, France
Title: The role of nanotopography on the design of an optimum nanohydroxyapatite/polyhedral oligomeric silsesquioxane poly(carbonate-urea) urethane nanocomposite scaffold for bone tissue engineering
Shima Salmasi, University College London, UK
Title: Emergent design of an hierarchically structured bio-intelligent scaffold for vasculogenesis and accelerated healing
Julian F Dye, University of Oxford, UK

Sessions: Track 4: Properties of Biomaterials
Track 11: Biomaterials for Therapeutic and Investigative Delivery
Track 12: Biomaterials in Delivery Systems

Session Chair: Xiaohui Zhang, Lehigh University, USA

Title: Biomechanical characterization of Von Willebrand factor – A giant multimeric plasma protein
Xiaohui Zhang, Lehigh University, USA
Title: *In vitro* methods for evaluation of novel radiopaque embolic flow properties
Marcus Caine, Biocompatibles UK Ltd, UK
Title: Novel method for the evaluation of drug release from drug-eluting beads
Tanya Sian Swaine, Biocompatibles UK Ltd, UK
Title: Synthesis and characterization of Y_2O_3: Tm^{3+},Yb^{3+} upconversion nanoparticles for bioimaging
Adrine Malek Khachatourian, KTH - Royal Institute of Technology, Sweden

Coffee Break

Poster Presentations

BM-01	**Title: Thermo-responsive ABC triblock terpolymers for 3D printing**
	Anna Constantinou, Imperial College London, UK
BM-02	**Title: Strategy for polymer network preparation and ensuring intramolecular conditions for further coupling applications**
	Aurica P Chiriac, Petru Poni Institute of Macromolecular Chemistry, Romania
BM-03	**Title: Preparation of a new drug delivery carrier based on hydrogels of hyaluronic acid crosslinked with poly(itaconic anhydride-co-3, 9-divinyl-2, 4, 8, 10-dioxaspiro (5.5) undecane) copolymers**
	Aurica P Chiriac, Petru Poni Institute of Macromolecular Chemistry, Romania
BM-04	**Title: Silibinin-conjugated graphene and hyaluronic acid platforms for osteosarcoma targeting**
	Giulia Neri, University of Messina, Italy
BM-05	**Title: Densified titanium implants embedded with BMP-2**
	Hyun-Do Jung, Korea Institute of Industrial Technology, Korea
BM-06	**Title: Functionalized copolymer matrix based on poly(maleic anhydride-co-3, 9-divinyl-2, 4, 8, 10-tetraoxaspiro (5.5) undecane) with potential biomedical applications**
	Iordana Neamtu, Petru Poni Institute of Macromolecular Chemistry, Romania
BM-07	**Title: Production of the polyurethane/zeolite nanocomposites with electrospinning method for biomedical engineering applications**
	Mehmet Onur Aydogdu, Marmara University, Turkey
BM-08	**Title: Biocompatible surgical meshes from de-cellularized amniotic membrane and polyurethane**
	Yabin Zhu, Ningbo University, China
BM-09	**Title: Dynamic freeze casting using titanium (Ti) powders for producing porous Ti**
	Hyun-Do Jung, Korea Institute of Industrial Technology, Korea
BM-10	**Title: Osteogenic potential of ALLOB® combined with bioceramics in spinal fusion**
	Sandra Pietri, Bone Therapeutics, Belgium
BM-11	**Title: *In vitro* characterisation method for comparative evaluation of drug loaded embolic distal perfusion**
	Marcus Caine, Biocompatibles UK Ltd, UK
BM-12	**Title: Hybrid calcium phosphate coatings for titanium implants**
	Elena Kharapudchenko, National Research Tomsk Polytechnic University, Russian Federation
BM-13	**Title: Study the effect of pulsed e-beam on properties of biodegradable PLLA scaffolds prepared by different methods**
	Valeriya Kudryavtseva, National Research Tomsk Polytechnic University (TPU), Russia
Awards Ceremony	
Panel Discussion	

Day 3
Wednesday, March 16, 2016
Scientific Partnering Meetings
Coffee Break @ Foyer Area
Scientific Partnering Meetings
Lunch Break @ Restaurant
Thanks giving & Closing ceremony

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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

09:25-09:50 **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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