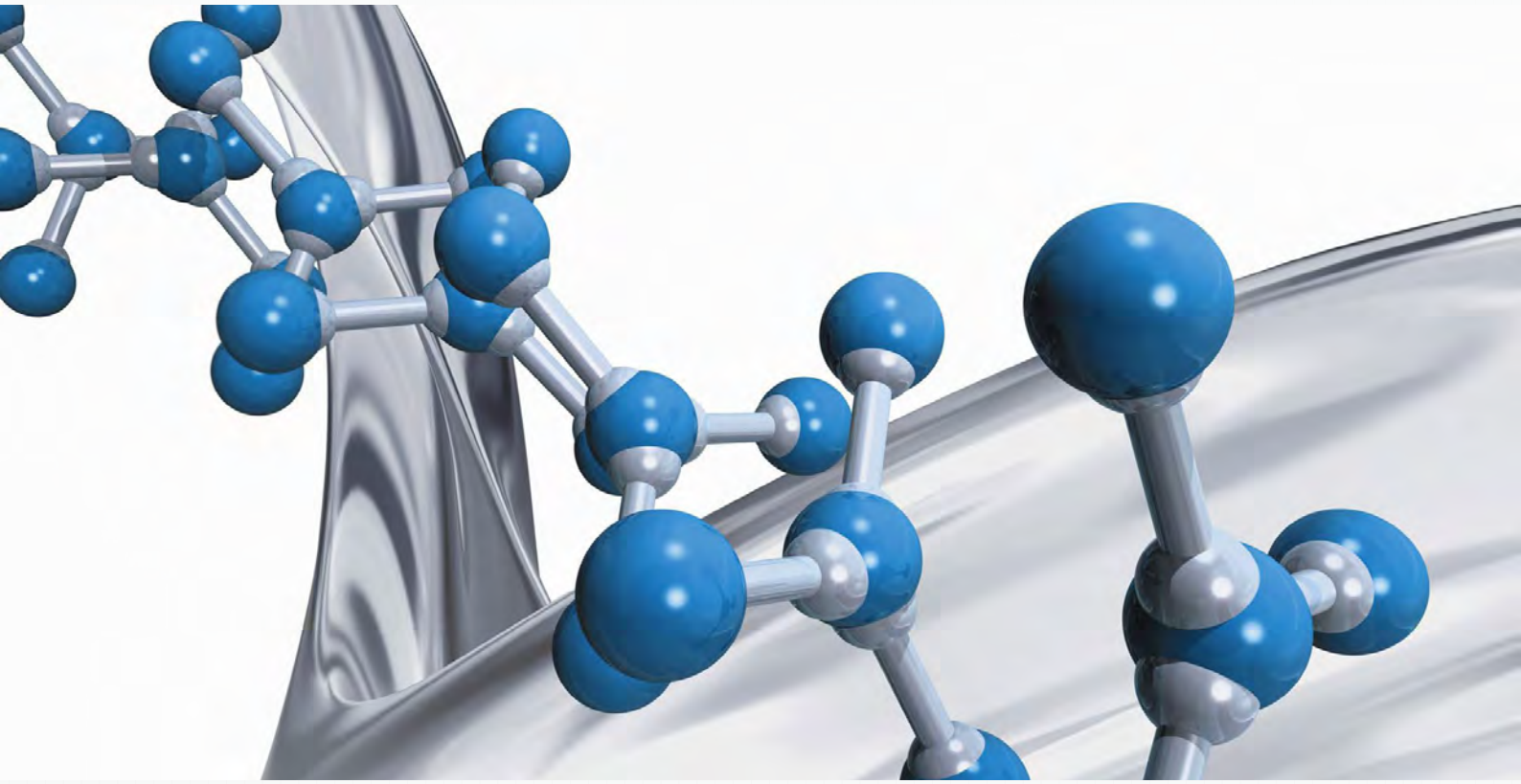
Tentative Program

10th International Conference on

Advanced Materials and Processing

Edinburgh, Scotland August 16-17, 2017



materials@materialsconferences.org

300+ Participation

12+ Interactive Sessions	15+ Keynote Lectures	75+ Plenary Lectures	5+ Workshops

Conference Secretariat

2360 Corporate Circle, Suite 400 Henderson, NV 89074-7722, USA

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Tentative Program

10th International Conference on

Advanced Materials and Processing

Edinburgh, Scotland August 16-17, 2017

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	Prof.Hauro Sugi
		09.45-10.15	Prof. Leszek Adam Dobrzanski
		10.15-10.45	Prof. Mosongo Moukwa
	Panel Discussions/Group Photo		
	Coffee/Tea Break 10.45-11.00 (Networking)		
	11.00-12.40	Advanced Materials	
Evening Sessions			
	Lunch Break 12.40-13.30		
	13.30-15.30	Materials Processing and characterization	
	Polymers: Synthesis, Processing and Applications		
	Coffee/Tea Break 15.30-15.45 (Networking)		
	15.45-17.25	Advanced Biomaterials ,Biodivices & Tissue Engineering	

Day 2

Morning Sessions		**Time**	**Session 1**	**Session 2**
	09.00-10.40		Keynote Forum	
	Advanced Physics and Chemistry Materials			
	Coffee/Tea Break 10.40-10.55 (Networking)			
	10.55-12.35		Advanced Ceramics and Composite Materials	Advanced in Nanomaterials Science and Nanotechnology
Evening Sessions	**Lunch Break 12.35-13.25**			
	13.25-15.05		Metals, Metallurgy and Materials	Optical ,Electronic and Magnetic Materials
	Coffee/Tea Break 15.05-15.20 (Networking)			
	15.20-17.00		Materials for Energy application& Energy storage	Welding Engineering/

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

Major Scientific Sessions

- Advanced Materials
- Materials Processing and characterization
- Advanced Ceramics and Composite Materials
- Polymers: Synthesis, Processing and Applications
- Advanced Biomaterials ,Biodivices & Tissue Engeenering
- Advence in Nanomaterials Science And Nanotechnology
- Metals, Metallurgy and Materials
- Optical ,Electronic and Magnetic Materials
- Materials for Energy application& Energy storage
- Carbon Based Nanoscale Materials
- Entrepreneurs Investment Meet
- Computational Materials
- Constructional and Engineering Materials
- World Technology Forum
- Structural Materials
- Welding Engineering
- Electrical/Magnetic Materials
- Automotive Applications
- Nuclear Materials
- Hard Metals and Cutting Tools
- New Functional Materials
- Testing and Evaluation of Materials
- Fabrication Of Advanced Materials

Best Poster Award



- You will be given about 5-7 minutes to present your poster including questions and answers. Judges may pose questions during the evaluation of the poster
- Judges will even evaluate the student's enthusiasm towards their study, interest and knowledge in the area of their research
- The winners will be announced at the closing ceremony of the conference. The decision of the winner will be withdrawn if the winner/winners is/are not present at the time of announcement
- Apart from the judging time you may also be present at the poster to share your research with interested delegates



Young Researchers Forum

- Present your research through oral presentations
- Learn about career development and the latest research tools and technologies in your field
- This forum will give pertinent and timely information to those who conduct research and those who use and benefit from research
- Develop a foundation for collaboration among young researchers
- The forum will provide an opportunity for collegial interaction with other young investigators and established senior investigators across the globe
- Interact and share ideas with both peers and mentors

General Queries
materials@materialsconferences.org

Conference Venue

Edinburgh, Scotland

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Materials 2017
2360 Corporate Circle., Suite 400 Henderson,
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About Edinburgh

Edinburgh is the capital city of Scotland, it is Scotland's second most populous city, and the seventh most populous in the United Kingdom. Edinburgh lies at the heart of the proposed Edinburgh and South East Scotland city region.

Edinburgh the world's leading Festival City. Edinburgh is Scotland's inspiring capital where centuries of history meet a world class city in an unforgettable setting. Edinburgh One of the most beautiful cities in the world. Edinburgh city has long been a centre of education, particularly in the fields of medicine, Scots law, literature, the sciences and engineering. The University of Edinburgh, founded in 1582 and now one of four in the city, was placed 17th in the QS World University Rankings in 2013 and 2014.[8] The city is also famous for the Edinburgh International Festival and the Fringe.

Alumni of the university include some of the major figures of modern history, including physicist James Clerk Maxwell, naturalist Charles Darwin, philosopher David Hume, mathematician Thomas Bayes, surgeon Joseph Lister, signatories of the American declaration of independence James Wilson, John Witherspoon and Benjamin Rush, inventor Alexander Graham Bell and the History of Science in Edinburgh is full of the famous names like William Alison, Alexander Crum Brown, William Gregory, Peter Higgs, Arthur Pillans Laurie, Daniel Rutherford.



Glimpses of Previous Conferences



















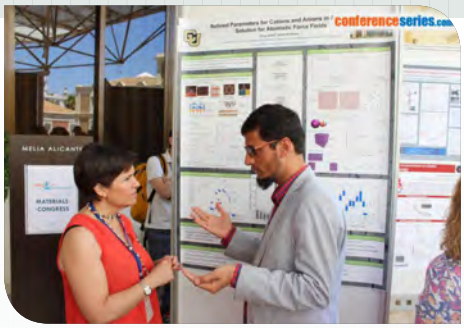







Glimpses of Previous Conferences













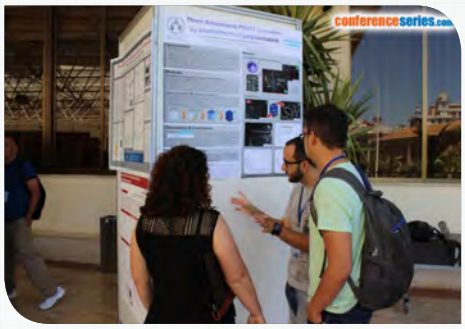


















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Victoria Street and Grassmarket



Royal Yacht Britannia



The Royal Botanic Garden



Glasgow Science Centre



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665th Conference

Scientific Program

6th International Conference and Exhibition on

Materials Science and Engineering

September 12-14, 2016 Atlanta, USA



Hosting Organizations: Conference Series LLC
2360 Corporate Circle., Suite 400 Henderson, NV 89074-7722, USA
Ph: ++1-888-843-8169, Fax: +1-650-618-1417, Toll free: +1-800-216-6499

Conference Series Ltd
Heathrow Stockley Park Lakeside House, 1 Furzeground Way, Heathrow, UB11 1BD, UK, Tel: +1-800-216-6499

Day 1 September 12, 2016

Registrations

Chattahooche-A

conferenceseries.com

Opening Ceremony

Keynote Forum

Introduction

Title: Small things offer big promise

Carlo Montemagno, University of Alberta, Canada

Title: Materials and processing opportunities and challenges for transformation of global electricity infrastructure

Rajendra Singh, Clemson University, USA

Title: Heat resistant engineering materials for industrial application

Zofia Niemczura, Arcelormittal Global R&D, USA

Group Photo @ Chattahooche-A

Networking & Refreshments Break

Title: A multi-layered composite ensuring harmless to the human body and implant longevity of hip prosthesis in orthopedics

Masaru Matsuo, Dalian University of Technology, China

Sessions:
Materials Science and Engineering | Computational Materials Science | Polymer Technology

Session Chair: Matthew E Edwards, Alabama A&M University, USA
Session Chair: Michael F Herman, Tulane University, USA

Session Introduction

Title: Electrical conduction mechanism of volume and surface resistivities of multi-walled carbon nanotubes doped polyvinyl alcohol (PVA) and the pyroelectric behavior of polyvinylidene difluoride (PVDF) thin films
Matthew E Edwards, Alabama A&M University, USA
Title: An approximate semiclassical method that uses real valued trajectories for time dependent tunneling calculations
Michael F Herman, Tulane University, USA
Title: Tuning electrical conductivity with photoirradiation and electric field in organic crystals and ionic solids
Nobuhiro Ohta, National Chiao Tung University, Taiwan
Title: Fine-controlled subano-metal particles in a dendrimer reactor
Kimihisa Yamamoto, Tokyo Institute of Technology, Japan
Title: Study of the adsorption of simple molecules on metal oxides by ab initio calculations. Application to the detection of gas
Caroline Lambert-Mauriat, Aix Marseille Université, France
Title: *In situ* investigations of particle-mediated crystal growth
Dongsheng Li, Pacific Northwest National Laboratory, USA

Lunch Break

Title: Terahertz laser sources based on difference frequency generation of infrared nonlinear optical materials $SnGa_4Q_7$ (Q = S, Se)
Wen-Dan Cheng, Chinese Academy of Sciences, China
Title: Microstructure and mechanical properties of a low C medium Mn heavy plate steel
Lin-Xiu Du, Northeastern University, China
Title: Microstructure and mechanical property of vacuum rolled Ni-based alloy/pipeline steel clad plate
Guang-ming XIE, Northeastern University, China

Panel Discussion

Memento Presentation to Organizing Committee Members

Session Chair: Jun Ding, National University of Singapore, Singapore
Session Chair: Hideo Miura, Tohoku University, Japan

Session Introduction

Title: Spinel ferrite films with enhanced magnetization and large magneto-resistance
Jun Ding, National University of Singapore, Singapore
Title: Degradation of crystallinity and properties of advanced functional materials caused by anisotropic local diffusion of component atoms under severe operating conditions
Hideo Miura, Tohoku University, Japan
Title: A high-entropy alloy with ultrahigh ductility breaks strength-ductility paradox
Yonghao Zhao, Nanjing University of Science and Technology, China
Title: Research on the optimization mechanism of loading path for hydroforming process
Zong-an LUO, Northeastern University, China

Networking & Refreshments Break

Title: Process research on the stainless steel / low alloy steel clad plate prepared by vacuum hot rolling
Feng Ying-ying, Northeastern University, China

Young Research Forum

Title: On sample structure for fabricating micro-material by electromigration
Yasuhiro Kimura, Tohoku University, Japan
Title: Tailoring surface charge to antifouling applications
Guo Shanshan, National University of Singapore, Singapore

Panel Discussions

Day 2 September 13, 2016

Chattahooche-A

Keynote Forum

Introduction

Title: Recent progress in acoustic metamaterials membranes for low frequency sound attenuation
Ramesh K Agarwal, Washington University in St. Louis, USA

Title: Nanostructured functional organic materials synthesized by a laser irradiation method for applications of molecular devices and high-sensitive sensors
Masahiro Goto, National Institute for Materials Science, Japan

Sessions:
Nanotechnology in Materials Science | Energy Materials | Emerging Areas of Materials Science and Nanotechnology

Session Chair: Rajendra Bordia, Clemson University, USA
Session Chair: Masumi Saka, Tohoku University, Japan

Session Introduction

Title: Analysis and simulation guided processing of hierarchical porous and multi-layered ceramics for energy applications
Rajendra Bordia, Clemson University, USA
Title: Effect of passivation on suppression or utilization of atomic migration phenomena in metallic thin-film materials
Masumi Saka, Tohoku University, Japan

Networking & Refreshments Break

Title: Fabrication of aluminum matrix composites with nano-sized reinforcements via friction stir processing
Zong-yi Ma, Chinese Academy of Sciences, China
Title: Synthesis and preparation of nanocomposites of metal oxide and metal sulphide by electrochemical, hydrothermal and biological method: Its application for polymer nanocomposites, antibacterial, photo-voltaic and as photocatalyst
Sannaiah Ananda, University of Mysore, India
Title: Energy storage material
Subramanian Selladurai, Anna University, India

Title: Micro-beam laser ablation/mass spectrometry for materials depth-profiling and elemental surface distribution studies – Polymers, waxes, asphaltenes, steels
Avin Pillay, The Petroleum Institute, UAE

Title: Synthesis of carbon hollow spheres by a modified hydrothermal carbonization method
Mingli Qin, University of Science and Technology Beijing, P.R. China
Title: Transmission electron microscopy – A versatile tool to study the microstructure of HT-PEMFC
Christina Scheu, Max-Planck-Institute, Germany
Title: Hollow polydopamine nanoparticles loaded ionic liquid and doxorubicin for combined chemotherapy and microwave thermal therapy of cancer
Tianlong Liu, Chinese Academy of Sciences, P. R. China

Panel Discussions

Memento Presentation to Organizing Committee Members

Lunch Break

Session Chair: Avin Pillay, The Petroleum Institute, UAE
Session Chair: Zong-yi Ma, Chinese Academy of Sciences, China

Session Introduction

Title: Large pulsed electron beam surface treatment of woven carbon fiber/ZnO nanorod/polyester resin composites
Hyung Wook Park, Ulsan National Institute of Science and Technology, Rep. of Korea
Title: The design, synthesis and application of microwave susceptible agents for tumor microwave thermotherapy based on confinement mechanism
Xianwei Meng, Chinese Academy of Sciences, China
Title: Synthesis and characterization of hybrid nanoparticles for biomedical and environmental remediation applications
Soubantika Palchoudhury, University of Tennessee, USA
Title: Luminescent periodic microstructures for medical applications
Kenta Miura, Gunma University, Japan
Title: Alumina-based nanocomposites using graphite nanoplatelets as reinforcement
Syed Nasimul Alam, National Institute of Technology Rourkela, India
Title: $BiVO_4$ and WO_3 nanophotocatalysts: Water-splitting and environmental applications
G. T. Chandrappa, Bangalore University, India
Title: Null current hysteresis for acetylacetonate based perovskite solar cells as electron extraction layer
Abd. Rashid bin Mohd Yusoff, Kyung Hee University, South Korea

Networking & Refreshments Break

Title: Nitrogen doping into ZnO branched nanowire by plasma treatment and its effect on photo electrochemical performance
Shrok Allami, Ministry of Science and Technology, Iraq

Young Research Forum

Title: Polymeric nanocomposites gate dielectric for organic thin film transistors
Davoud Dastan, Savitribai Phule Pune University, India
Title: Engineered metal oxide nanoparticles, nano-bio interaction and toxicology
Avnika S Anand, Defence Research and Development Organization, India
Title: Density functional theory calculations for the electronic, magnetic, and chemical bonding properties of geometrically frustrated spinel $CdCr_2O_4$
Najmeh Bolandhemat, Universiti Putra Malaysia, Malaysia

Panel Discussions

Poster Presentations

Title: A study of natural radioactivity in the welding workshops waste
Zain M Al-Amoudi, King Abdulaziz University, Saudi Arabia
Title: Synthesis of polymer composites thin films of Cr_2O_3 nanoparticles and study of its optical and electrical properties
Venkatesha B M, University of Mysore, India
Title: Solid state decarburization of high carbon ferrochromium
Amit Bhalla, University of Witwatersrand, South Africa
Title: Synthesis of vanadium oxide/carbon nanotubes for anodes for lithium-ion batteries
Baorui Jia, University of Science and Technology Beijing, P R China
Title: Analysis of valonia oak (*Quercus aegylops*) acorn tannin and wood adhesives application
Fatmah Bahabri, King Abdulaziz University, Saudi Arabia

Title: Rate-dependent hardening model for HCP metals with effect of deformation twinning and dynamic recrystallization
Jonghun Yoon, Hanyang University, South Korea
Title: Effect of gamma irradiation on the structural and color properties of CR 6-2 polycarbonate
Mymona Abutalib, King Abdulaziz University, Saudi Arabia
Title: Corrosion inhibition effects of Tungstate and Nitrite ions on sputter-deposited nanocystalline W–42Cr–5Ni Alloy in 0.5 M NaCl solution
Durga Bhakta Pokharel, Tribhuvan University, Nepal
Title: Vanadium nitride nanoparticles encapsulated in carbon sheets for stable high energy lithium ion anodes
Haoyang Wu, University of Science and Technology Beijing, China
Title: An intelligent electronic control unit to limit vehicle speed
Srivas M C, B M S College of Engineering, India

Best Poster Award Presentation

Day 3 September 14, 2016

Chattahooche-A

Keynote Forum

Introduction

Title: Generating efficient and tunable white light using electronically coupled nanocrystal and molecular building blocks

Pavle V Radovanovic, University of Waterloo, Canada

Title: The scientific adventure of packing: From space saving to material design

Ho-Kei Chan, Harbin Institute of Technology, Shenzhen, China

Sessions:
Mining, Metallurgy and Materials Science | Surface Science and Engineering | Biomaterials and Tissue Engineering | Materials Chemistry and Physics | Electrical, Optical and Magnetic Materials

Session Chair: Padmaja Guggilla, Alabama A&M University, USA
Session Chair: Nezar H Khdary, King Abdulaziz City for Science and Technology, Saudi Arabia

Session Introduction

Title: Effects of ionic irradiation on PMN-PT ferroelectric materials for space applications
Padmaja Guggilla, Alabama A&M University, USA
Title: Super high surface area mesoporous carbon for arsenic removal from ground water
Nezar H Khdary, King Abdulaziz City for Science and Technology, Saudi Arabia

Networking & Refreshments

Title: Effect of tempering time on strength and toughness of a ultra-low C medium Mn steel
Hong-Yan Wu, Northeastern University, China
Title: Soft nanomaterials of POSS-based copolymer for stone arts conservation
Ling He, Xian Jiaotong University, China
Title: Dielectric study of hydrogen sulphate ($AHSO_4$ and $BHSO_4$ A= Sodium, B= Potassium) crystals
Azha Periasamy, Bharathiar University, India
Title: Generato retaining ring steel(Mn18Cr18N) prepared by powder metallurgy
Shubin Ren, University of Science and Technology Beijing, China
Title: Biocompatibility and human osteoblast response to template-assisted electrohydrodynamic atomized interlocked ceramic patterns on curved 3D metallic substrates for medical implants
Anouska Nithyanandan, University College London, United Kingdom

Panel Discussions

Memento Presentation to Organizing Committee Members

Lunch Break

Session Chair: Sampath Kumar M C, B.M.S. College of Engineering, India
Session Chair: Veena Prasad, Centre for Nano and Soft Matter Sciences, India

Session Introduction

Title: Application of cleaner development mechanisms
Sampath Kumar M C, B.M.S. College of Engineering, India

Title: Azo substituted achiral bent-core liquid crystals: photo-induced studies in B_7 and B_2 mesophases
Veena Prasad, Centre for Nano and Soft Matter Sciences, India
Title: Mechanically deformable and programmable nanoscale surface textures with tunable wetting and mechanical properties
Wei Li Lee, Massachusetts Institute of Technology, USA
Title: The study of fatigue property of S500LF wheel spoke steel
Cai-Ru GAO, Northeastern University, China
Title: A low-C 5-Mn ultra-heavy plate steel with high microstructural homogeneity and excellent strength - toughness combination
Jun Hu, Northeastern University, China
Title: Characterization of plasma sprayed CNT reinforced alumina coatings on ASME-SA213-T91 boiler tube steel
Buta Singh Sidhu, IKG Punjab Technical University, India
Title: Parametric investigations into manufacturing of magnetic abrasives by sintering process
Balkar Singh, IKG-Punjab Technical University, India

Young Research Forum

Title: Fracture toughness of austenitic stainless steel welds for ultra-high vacuum and cryogenic applications
Ignacio Aviles Santillana, CERN, Switzerland
Title: Synthesis and luminescence properties of pyrophosphate phosphors doped with rare earth
Wafa Hami, Cadi Ayyad University, Morocco

Panel Discussions

Special Appreciation Awards

Refreshments

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Scientific Program

5th World Congress on

Materials Science & Engineering

June 13-15, 2016 Alicante, Spain



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Scientific Program

Day 1 June 13, 2016

Registrations

Terra Mitica

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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 @ Laplaza

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 @ Laplaza

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 @ Laplaza

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 @ Laplaza

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 @ Laplaza

Poster Presentations @ Terra Mitica

Title: A new biomaterial in the subsystem nurse´s A-phase-silcocarnotite
Piedad N De Aza, Universidad Miguel Hernández, Spain
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
Title: Post polymerization functionalization of soluable poly(2,5-dithienylpyrrole)s
Pinar Camurlu, Akdeniz University, Turkey
Title: Effect of curing temperature on sol-gel formed glass coatings containing hBN nanoparticles
Hasan Erdem Çamurlu, Akdeniz University, Turkey
Title: Three dimensional PEDOT nanowires by electrochemical polymerization
Antonio García Barberá, University of Valencia, Spain
Title: Refined parameters for cations and anions in aqueous solution for atomistic force fields
Tariq Jamil, University of Colorado Boulder, USA
Title: Adsorption of graphene oxide onto synthetic fibers
Ivan Plaza, University of Granada, Spain
Title: Polyamide fibers coated with chlorhexidine
Miguel López, University of Granada, Spain
Title: Poly(acrylic acid)/Polyethylene glycol hygrogel prepared by using gamma-ray irradiation for mucosa adhesion
Deok-Won Lee, Kyung Hee University, Korea
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 @ Laplaza

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 @ Terra Mitica

Title: Synthesis and characterization of nanoparticles III-V semiconductor core/shell (InP/ZnS)
Jose Eladio Flores Mena, Instituto Politécnico Nacional, México
Title: Synthesis and characterization of chemical-bath deposition CdPbxS1-x nanofilms
Jose Eladio Flores Mena, Instituto Politécnico Nacional, México
Title: Synthesis, functionalization and antimicrobial activity of a near-IR photoactive gold multibranched tags
Lyutakov Oleksiy, Institute of Chemical Technology, Czech Republic
Title: Light-activated antibacterial nanofibers
Elashnikov Roman, University of Chemistry and Technology, Czech Republic
Title: Platform for smart SERS sensors based on surface-modified metal plasmonic thin films
Guselnikova Olga, University of Chemistry and Technology, Czech Republic
Title: Metal grating coupling with different nanoparticles for highly intensified SERS response
Kalachyova Yevgeniy, University of Chemistry and Technology, Czech Republic
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
Title: Stability of aged ethylene norbornene copolymers used for medical devices
Wowro Sonia Rosine Lago, Univ Paris-Sud, France
Title: Plasma generated nitrogen functionalities on polymeric bone implants for upregulating osteogenesis
Wei Zhang, The Chinese Academy of Sciences, China
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 @ Laplaza

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 @ Laplaza

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10th International Conference on

Advanced Materials & Processing

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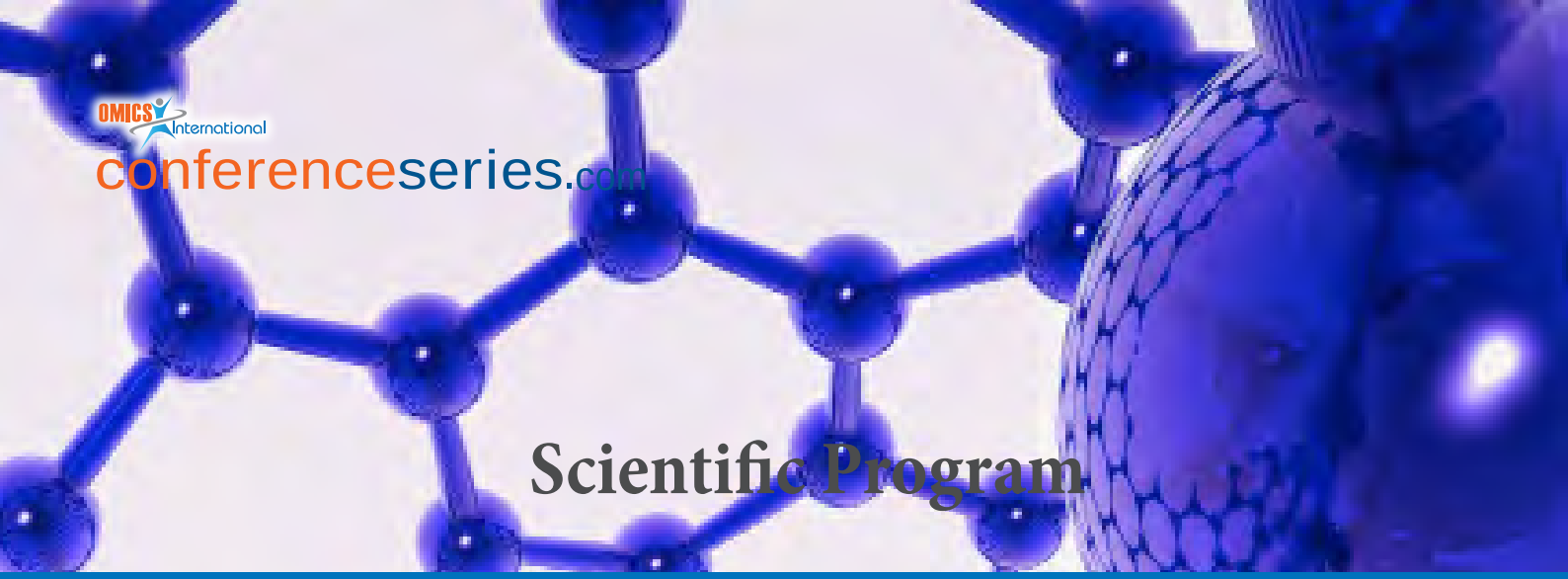
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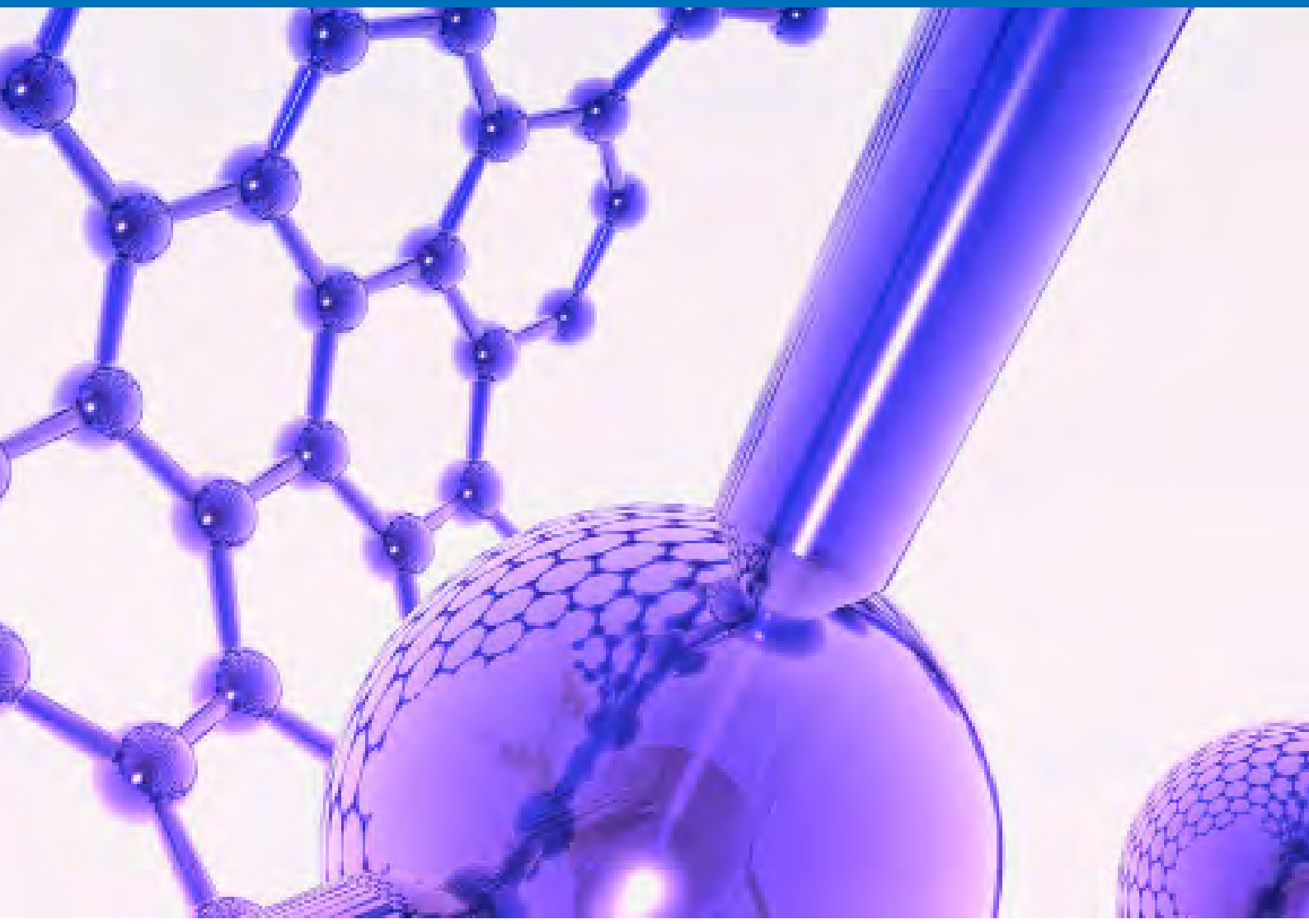
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Scientific Program

International Conference and Exhibition on

Materials Chemistry

March 31-April 01, 2016 Valencia, Spain



Registrations

Melia Meeting 4 & 5

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Opening Ceremony

Keynote Forum

Introduction

Michael W. Tausch
University of Wuppertal, Germany

Jas Pal Badyal
Durham University, UK

Track 1: Materials Science and Engineering
Track 2: Informatics in Various Fields of Materials

Session Introduction

Session Chair: Urs Meier, Swiss Federal Laboratories for Materials Science and Technology, Switzerland

Session Co-chair: Jijeesh R Nair, Polytechnic University of Turin, Italy

Title: Molecular magnetic switches
Marat M. Khusniyarov, Friedrich-Alexander-University of Erlangen-Nuremberg, Germany
Title: The role of polymer electrolyte in constructing an aging resistant high energy lithium battery for wide temperature application
Jijeesh R Nair, Polytechnic University of Turin, Italy

Group Photo

Coffee Break

Title: The prediction of long-term creep data of fibrous polymer composites based on short term experiments
Urs Meier, Swiss Federal Laboratories for Materials Science and Technology, Switzerland
Title: Group III-Nitride semiconductor nanostructures for novel photonic applications
Yong-Hoon Cho, Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea
Title: Polymer derived boron nitride ceramics for energy applications
Philippe Miele, University of Montpellier, France
Title: Teaching from practice to theory
Mario Pablo Spector, National Technological University, Argentina
Title: Novel biological method for iron rust removal
S.Rajendran, Madurai Kamaraj University, India

Lunch Break

Young Researchers Forum

Title: Towards more efficient upconverting materials based on $NaYF_4$ nanoparticles: Phase and size controlled synthesis and optical evaluation
Fabrizio Guzzetta, Universitat Jaume I, Spain
Title: High efficiency for photo-polymerizable VCP ester-amide resins: A universal concept providing low volume shrinkage, high reactivity and selectivity
Paul Pineda, University of Bayreuth, Germany
Title: Non-ionic UCST-type polymers: Synthesis and analysis of new thermoresponsive properties in aqueous media
Beatriz A Pineda-Contreras, University of Bayreuth, Germany

Title: Expanding the NMR palette: Insights on artificial charge separators
Brijith Thomas, Leiden Institute of Chemistry, Netherlands

Track 3: Role of Materials Chemistry in Pharmacy
Track 4: Design and Synthesis of Materials

Session Chair: Wlodzimierz Stanczyk, Polish Academy of Sciences, Poland

Session Co-chair: Bruno Bureau, Institut Universitaire de France, France

Title: Synthesis of the first POSS cage - anthracycline nano-conjugates
Wlodzimierz Stanczyk, Polish Academy of Sciences, Poland
Title: Synthesis of fine-controlled subano-metal particles using a dendrimer reactor
Kimihisa Yamamoto, Tokyo Institute of Technology, Japan
Title: Tellurium based glasses for far infrared and thermoelectric applications
Bruno Bureau, Institut Universitaire de France, France
Title: Game-based materials to teaching and learning the periodic table
Antonio Joaquín Franco-Mariscal, University of Malaga, Spain

Coffee Break

Title: Polymers with tunable properties via variable cross-linking conditions
Lee D. Wilson, University of Saskatchewan, Canada
Title: Fibre structures for energy harvesting in wearables
Elias Siores, Bolton University, UK
Title: Advanced functional organic-inorganic nano-composite membranes: Application of membrane technology for removal of contaminants of drinking water
Urfi Ishrat, Taibah University, Saudi Arabia
Title: Microstructure evolution at different cooling rates of a low carbon microalloyed steel
Elena Brandaleze, National Technological University, Argentina
Title: Mechanical response of Ti_3SiC_2 to He/H irradiation: Elaboration from first-principles calculation
Yuexia Wang, Fudan University, China

Day 2 April 01, 2016

Melia Meeting 4 & 5

Keynote Forum

Reshef Tenne
Weizmann Institute, Israel

Der-Jang Liaw
National Taiwan University of Science and Technology, Taiwan

Track 5: Foundational Challenges in Predictive Materials Chemistry
Track 6: Rational Chemical Synthesis on Nanoscale and Nanostructured Materials
Track 7: Polymer Materials and their Technology

Session Chair: Michael W. Tausch, University of Wuppertal, Germany

Session Co-chair: Ruben D. Costa, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany

Session Introduction

Title: Photoprocesses in science education
Michael W. Tausch, University of Wuppertal, Germany
Title: Hybrid organic-inorganic materials for thin-film lighting technologies
Ruben D. Costa, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany

Coffee Break

Title: Novel polymer-peptide conjugates and polymer-based peptidomimetics
Marc Devocelle, Royal College of Surgeons in Ireland (RCSI), Ireland
Title: Conjugated copolymers and their optimization for ambipolar field effect transistors
Martin Baumgarten, Max Planck Institute for Polymer Research, Germany
Title: Spectroscopic tools to study and interpret macromolecular dynamics at a molecular scale
Jorge Teno Diaz, Carlos III University of Madrid, Spain
Title: Ultrasonic fabrication of microfluidic polymer chips
Werner Karl Schomburg, RWTH Aachen University, Germany
Title: Synthetic polymers from easily available monossacharides
M. Gracia García-Martín, University of Seville, Spain

Lunch Break

Poster Presentations

Title: Inclusion complexes of propiconazole nitrate with substituted β-cyclodextrins II: *In vitro* assessment of antifungal properties
Irina Rosca, Petru Poni Institute of Macromolecular Chemistry, Romania
Title: Inclusion complexes of propiconazole nitrate with substituted β-cyclodextrins: Synthesis, characterization and in silico assessment
Narcisa Laura Marangoci, Petru Poni Institute of Macromolecular Chemistry, Romania
Title: Silver nanoclusters doped in mordenite zeolite as photocatalysts toward pesticides
Imad A Abu-Yousef, American University of Sharjah, UAE
Title: Improving PLA properties through the incorporation of electrospun nanofibers based on PVA and cellulose nanowhiskers
Carol Lopez de Dicastillo, Santiago de Chile University, Chile
Title: Antimicrobial supercritical impregnation of nanocomposites for food packaging
Maria Jose Galotto, Santiago de Chile University, Chile
Title: Preparation and characterization of chitosan-co-hyaluronic acid cryogels
Tugce Kutlusoy, Marmara University, Turkey
Title: Synthesis and characterization of high performance polyimide nanofibers and application on lithium-ion batteries
Emre Aytan, Marmara University, Turkey
Title: Molecularly imprinted polymeric nanoparticle: Preparation and characterization
Merve Yasar, Marmara University, Turkey
Title: Novel macroporous poly-pickering-HIPE composites for heterogeneous photocatalysis
Elif Yüce, Yalova University
Title: Poly-pickering-HIPEs as heterogeneous photocatalysts
Fatma Nur Parın, Yalova University

Track 8 : Applied Materials Chemistry
Track 9 : Current Innovations and Emerging Areas in Materials Chemistry
Track 10 : Research Aspects of Materials Chemistry
Track 11 : Science of Advanced Materials

Session Chair: Yan Huang, Brunel University London Institute of Materials and Manufacturing, UK

Session Co-chair: Yo Tanaka, RIKEN, Japan

Title: Solute effect on grain boundary migration in ultrafine/nanostructured materials
Yan Huang, Brunel University London Institute of Materials and Manufacturing, UK
Title: Application of ultra-thin flexible glass sheets to microfluidic devices
Yo Tanaka, RIKEN, Japan
Title: Nanoscale strategies towards development of advanced Mn-based permanent magnets
Felix Jimenez-Villacorta, Materials Science Institute of Madrid (ICMM-CSIC), Spain
Title: Sialon nano-composites matrix reinforced by cubic boron nitride prepared by using spark plasma sintering
Abbas Saeed Hakeem, King Fahd University of Petroleum & Minerals, Saudi Arabia
Title: Segregation of ions in deliquesced droplets of alkali halide nano-crystals on SiO_2
Kenta Arima, Osaka University, Japan
Title: Nanomechanics with nanotubes and fullerene-like-WS_2 (MoS_2)
Reshef Tenne, Weizmann Institute, Israel

Coffee Break

Video Presentation: One-pot waterborne superhydrophobic pigment coatings at high solids with improved scratch and water resistance
Agne Swerin, SP Technical Research Institute of Sweden – Chemistry, Sweden
Title: Fuel briquettes from municipal solid waste through solid state fermentation
S.Rajendran, Saraswathi Narayanan College, India
Title: Microreactors based on nanostructured monolithic materials for electrochromatography separation and catalysis applications
Seydina Ibrahima KEBE, University Paris-East, France
Title: Heterogeneous kinetic uptake studies of conventional and nanomaterials in solution
Lee D. Wilson, University of Saskatchewan, Canada

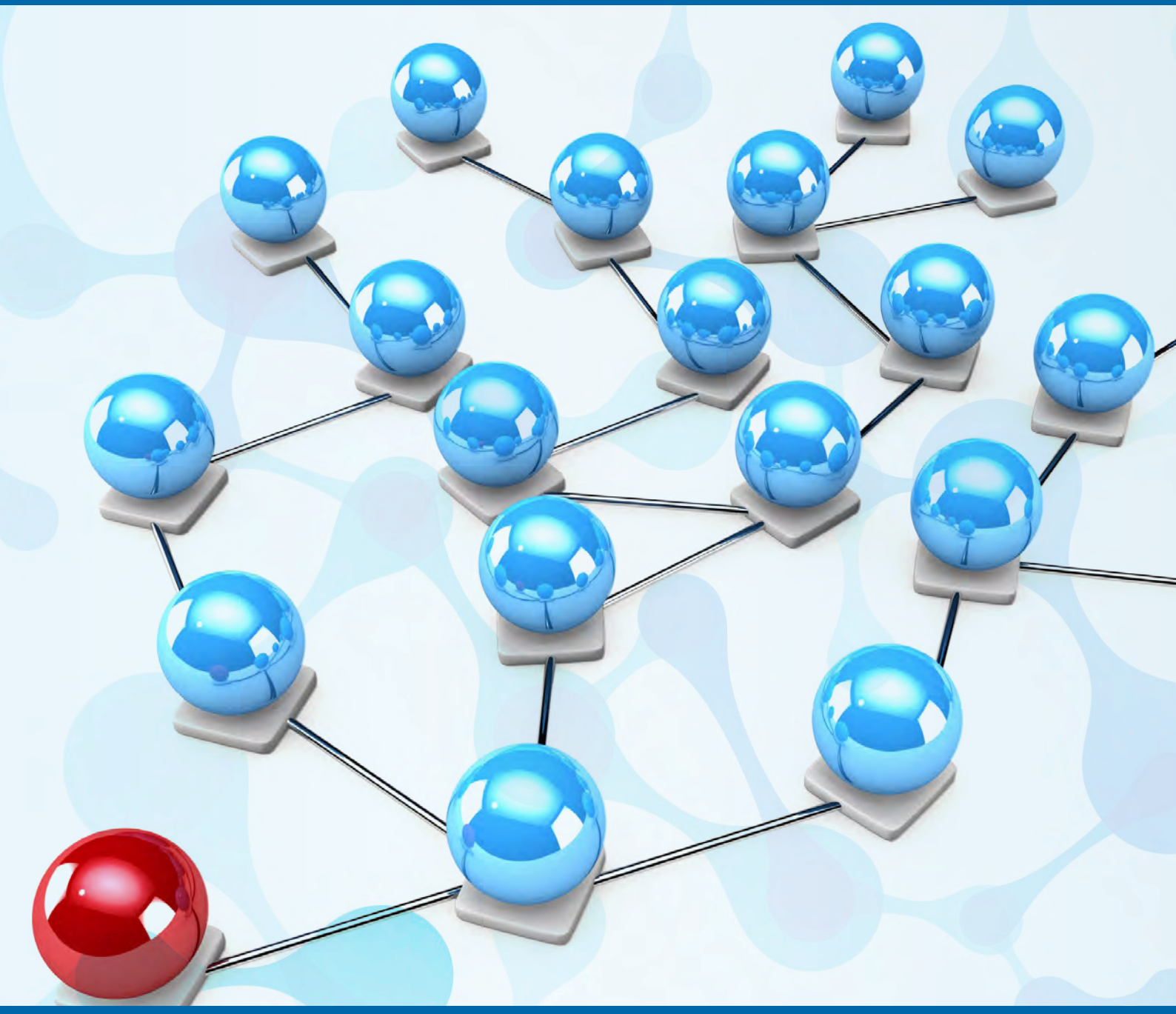
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4th International Conference and Exhibition on

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Scientific Program

Day 1 September 14, 2015

Registrations

Continental Ballroom 5-7

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Opening Ceremony

Keynote Forum

Introduction

Igor Kosacki
Honeywell International, Inc., USA

Haruo Sugi
Teikyo University, Japan

Jas Pal Badyal
Durham University, United Kingdom

Group Photo @ Continental Ballroom 5-7

Coffee Break

Track 1: Materials Science and Engineering

Session Chair: Wei Pan, Tsinghua University, China

Session Co-Chair: Rahul Basu, Sambhram Institute of Technology (SAIT), India

Session Introduction

Title: Promising thermal barrier coating candidates for next generation gas turbine
Wei Pan, Tsinghua University, China

Title: Perturbation analysis of the solidification problem for a sphere in porous media
Rahul Basu, Sambhram Institute of Technology (SAIT), India

Title: Effect of heat treatment on precipitation behaviour of intermetallic phases in duplex steel
Pavel Podany, COMTES FHT a.s., Czech Republic

Title: Failure of an Inconel 718 die used in production of hot copper direct extrusion
Michal Burchis Schwartz, S.C Laromet S.A, Romania

Title: High temperature phase transformation and the mechanism in $YTaO_4$
Jing Feng, Kunming University of Science and Technology, People's Republic of China

Title: A visual method for systematic multi-objective material selection in engineering design
Luca Masi, Granta Design, UK

Lunch Break

Title: Characterization of magnetic glass ceramics derived from iron oxides bearing rolling mill scales wastes
Nehal Ali Erfan Abdelwahab, East Carolina university, USA

Title: A theoretical framework for predicting the temperature variation of the properties of metals established on a feasible electronic basis
Reza Rahemi, University of British Columbia, Canada

Title: Effect of high impact loading on nanoclay reinforced polypropylene
Shishay Amare Gebremeskel, Indian Institute of Technology Delhi, India

Title: Low-temperature heat treatment (80°C) effect on the electrochemically synthesized $CuInTe_2$ thin films for energy harvesting applications
Manorama Lakhe, Savitribai Phule Pune University, India

Symposium Session

Title: Materials surface analysis
Luisa Amelia Dempere, University of Florida, USA

Track 4: Mining and Metallurgy
Track 5: Surface Science and Engineering

Session Chair: Junhua Dong, Chinese Academy of Sciences, China

Title: Atmospheric corrosion monitoring and modeling of a low alloy steel under an electrolyte film in cyclic wet–dry condition
Junhua Dong, Chinese Academy of Sciences, China
Title: Hot forging of high-Aluminum content Magnesium alloys by using a servo press
Hisaki Watari, Tokyo Denki University, Japan

Coffee Break

Title: The development of thermomechanical treatment of duplex steel
Michal Duchek, COMTES FHT, Czech Republic
Title: TiO_2 mineral from Ilmenite : Development of extraction method and its characterization
Muhammad Nurdin, Universitas Halu Oleo, Indonesia
Title: Optimisation of pack chromising process for proton exchange membrane (PEM) fuel cell bipolar plate applications
Atinuke Oladoye, Dublin City University, Ireland
Title: A comparison of two different principles of 3D surface reconstruction with regard to fabric defect detection
Lenka Techniková, Technical University of Liberec, Czech Republic
Title: Dry and wet sliding wear behaviours of laser-clad $TiNiZrO_2$ coatings in 3.5% NaCl
Babatunde Abiodun Obadele, Tshwane University of Technology, South Africa
Title: Antibiotic release from implant surfaces using immobilized PLGA microspheres
Dongwei Wang, Southwest Jiaotong University, China

Panel Discussion

Day 2 September 15, 2015

Continental Ballroom 5-7

Keynote Forum

Lixin Xue
Ningbo Institute of Industrial Technologies (CAS), China

Yutaka Ohno
Nagoya University, Japan

Track 2: Nanotechnology in Materials Science
Track 3: Energy Materials

Session Chair: Martin Ntwaeaborwa, University of the Free State, South Africa

Session Co-Chair: Jun DING, National University of Singapore, Singapore

Session Introduction

Title: Luminescent properties of powder and pulsed laser deposited thin film phosphors and their applications in lighting, phototherapy and solar cells
Martin Ntwaeaborwa, University of the Free State, South Africa
Title: Synthesis of Fe3O4 nanostructures and their applications
Jun DING, National University of Singapore, Singapore

Coffee Break

Title: High efficiency organometal halide perovskite devices by spray and brush solution-processing methods
Padmaja Guggilla, Alabama A & M University, USA
Title: Controlling electron recombination in nanowire-based DSSCs
Kirk J Ziegler, University of Florida, USA
Title: Self-assembly of DNA with inorganic material
Enrique C Samano, UNAM, Mexico
Title: Atomistic mechanism of lithiation of nanomaterials as Li-ion battery anodes studied by *in-situ* TEM
Xuedong BAI, Chinese Academy of Sciences, China
Title: Amyloid fibrils for functional nanomaterial applications
Sreenath Bolisetty, ETH, Switzerland

Title: Enhancement of 3D electrospun polycaprolactone/collagen constructs to facilitate the integration of nanofiber/cell mats in skin graft
Seyed Babak Mahjour, Stevens Institute of Technology, USA

Title: Magnetic relaxation phenomena in Fe nanoparticles composited with activated carbon
Satyendra Prakash Pal, Indian Institute of Science Education and Research, India

Lunch Break

Title: Studying the effects of functionalized multi-wall carbon nanotubes on mechanical and thermal properties of epoxy composites
Nasim Hadiashar, Santa Clara University, USA
Title: Hydrothermal synthesis of MoS_2 nanostructured films as high performance counter electrodes for dye-sensitized solar cells
Mohammad Al-Mamun, Griffith University, Australia
Title: The effect of preparation method on the properties of titanium dioxide nanoparticles used as a dielectric material
Davoud Dastan, Savitribai Phule Pune University, India
Title: Y_2O_3:Eu^{3+} nanophosphors: Synthesis by microwave-assisted heating method and characterization
Adrine Malek Khachatourian, KTH – Royal Institute of Technology, Sweden

Workshop

Title: Dielectric and pyroelectric nano-particle doped organic thinfilm: theory and application
Matthew Edwards, Alabama Agriculture and Mechanical University, USA

Coffee Break

Track 8: Electrical, Optical and Magnetic Materials
Track 11: Polymer Technology

Session Chair: Matthew E Edwards, AAMU, USA

Session Co-Chair: Santiranjan Shannigrahi, Institute of Materials Reserach and Engineering, Singapore

Title: Physical mechanisms of temperature dependent surface resistivity outcomes of doped nanoparticles, and single-wall or multi-wall carbon nanotubes polyvinyl alcohol thin films
Matthew E Edwards, Alabama Agricultural & Mechanical University, USA
Title: Polymer-ceramic composite film fabrication and characterization for harsh environment applications
Santiranjan Shannigrahi, Institute of Materials Reserach and Engineering, Singapore
Title: Development of highly sensitive micro magnetic sensor for biomagnetic field measurement utilizing magneto-impedance element
Tsuyoshi Uchiyama, Nagoya University, Japan
Title: Strength, elastic and electrical properties of non-stoichiometric materials under various Oxygen partial pressures
Kazuhisa SATO, Tohoku University, Japan
Title: Auxiliary anode on large-area organic light-emitting diode lighting
Apisit Chittawanij, National Formosa University, Taiwan
Title: A first-principles study on the structural and electronic properties of $CdCr_2O_4$ from density functional theory
Najmeh Bolandhemat, Universiti Putra Malaysia, Malaysia

Panel Discussion

Poster Presentations @ Continental Ballroom 1-3

Title: Photocatalytic and antioxidant activities of ZnO nanoparticles synthesized using Citrus paradisi peel extract
Alexis Debut, Universidad de las Fuerzas Armadas ESPE, Ecuador
Title: Determination of antimicrobial activity of textiles treated with encapsulated nanodispersion biocidal systems
Katerina Klanova, National Institute of Public Health, Czech Republic
Title: Preparation of polyurethane/buckypaper composites films and characterization of their structural vibration damping and strain sensing properties
Weiwei LIN, Florida International University, USA
Title: Raman spectroscopy of ZnS nanoparticles
Nebojsa Romcevic, University of Belgrade, Serbia
Title: Informatics guided computation of physical and chemical properties of nanomaterials
Claudia Loyola Canales, Universidad Andrés Bello, Chile
Title: Formation of hair follicle using 3D biomimetic nanofibers constructs
Seyed Babak Mahjour, Stevens Institute of Technology, USA
Title: The effect of pressure on feeding characteristic and porosity formation of A356 alloy
Jae-Ik Cho, Korea Institute of Industrial Technology, Rep. of Korea

Title: Modification of molecular and optical properties of cellulose triacetate by alpha particles irradiation
Mymona Mohseen Ahmad Abutalib, King Abdulaziz University, Saudi Arabia
Title: Design of silicon nanoparticles to improve the barrier effect on hardened Portland cement-based materials
Roberto Madrigales, UNAM, Mexico
Title: Luminescence properties of the ($A_2B_2O_7$) type $Eu_{1.90}Dy_{0.10}Ge_2O_7$
Esra ÖZTÜRK, Karamanoglu Mehmetbey University, Turkey
Title: Synthesis and thermoluminescence characterization of nano and micro-crystals of LiF doped with Ag
Miguel A Vallejo, Universidad de Guanajuato, Mexico
Title: Graphene based solar light sensitive photodiode
Asmaa Hendi, King Abdulaziz University, Saudi Arabia
Title: Low temperature magnetotransport study of pulsed laser deposited $Mg_{0.15}Zn_{0.85}O$ film
Tanveer A Dar, Devi Ahilya University, India
Title: Removal of Mercury, Lead and Cadmium in aqueous solution by natural and modified zeolites
Dulce Kristal Becerra Paniagua, Universidad de Ciencias y Artes de Chiapas, Mexico
Title: Structural and dielectrical properties of hard-soft ferrite composites
Chirag Patel, Gujarat University, India
Title: Synthesis and characterization of Pyrochlore ($A_2B_2O_7$) structure $Eu_{1.90}La_{0.10}Zr_2O_7$ phosphor
Erkul KARACAOGLU, Karamanoglu Mehmetbey University, Turkey
Title: Novel Ag/YVO_4 nanoparticles prepared by a hydrothermal method for photocatalytic degradation of methylene-blue dye
Elham S Aazam, King Abdulaziz University, Saudi Arabia
Title: Super-hydrophobic polymer coating materials based on PS/SiO_2
Ialy Sousa, Universidade Federal de Campina Grande, Brazil
Title: Biosynthesis of silver nanoparticles and their characterization
Sangappa Y, Georgia Institute of Technology School of Materials Science and Engineering, USA
Title: Anti-corrosive material coating based on PMMA/ montmorillonite (MMT)
Ariosvaldo A B Sobrinho, Universidade Federal de Campina Grande, Brazil

Day 3 September 16, 2015

Continental Ballroom 5-7

Keynote Forum

Dieter M Gruen
Dimerond Technoloaies. LLC. USA

Track 6: Biomaterials and Tissue Engineering
Track 7: Materials Chemistry (Organic and Inorganic) and Sustainable Chemistry
Track 10: Emerging Areas of Materials Science and Nanotechnology

Session Chair: Ramesh K Agarwal, Washington University in St. Louis, USA

Session Co-Chair: Nezar H Khdary, KACST, Saudi Arabia

Session Introduction

Title: Acoustic metamaterials membranes for low frequency sound attenuation
Ramesh K Agarwal, Washington University in St. Louis, USA
Title: Uniformly distributed copper nanoparticles supported on mesoporous silica for greenhouse gas capturing
Nezar H Khdary, KACST, Saudi Arabia

Coffee Break

Title: The response of HMSC-bm, SaOS-2 and imunocompetent cells to calcium phosphate doped alginate coatings on titanium surfaces
Lucie Himmlova, Charles University, Czech Republic
Title: Synthesis and characterization of modified (PVA) membranes
Ferial M Tera, National Institute of Standards, Egypt
Title: Cleaner technologies through optimization of resources
Sampath Kumar M C, B.M.S College of engineering, India
Title: Assessment of biomimectic modification on a novel low elastic modulus Ti–Nb–Hf alloy for dental implants
Virginia Paredes, Universidad ECCI Bogotá, Colombia
Title: The effect of the type of HA on the degradation and mechanical properties of PLGA/HA composites
Ashutosh Naik, Biocon research Limited, India
Title: Mechanism of material removal in Ti-6Al-4V at the incubation and advanced water droplet erosion stages
Dmytro Kevorkov, Concordia University, Canada

Title: A new portable reactor for photoelectrocatalytic system on organic compound Rhodamine B degradation
Maulidiyah, Universitas Halu Oleo, Indonesia

Lunch Break

Title: Synthesis, characterization and application of mesoporous silicas SBA-15 and its hybrid containing Glycidyl Methacrylate organo bridge for the controlled release of ibuprofen and mesalamine drugs in biological fluids
Fozia Rehman, University of Campinas, Brazil
Title: Synthesis and characterization of nanodiamonds-zinc oxide nanocomposites by ball milling technique
Hameed Ullah, Hazara University, Pakistan

Closing Ceremony

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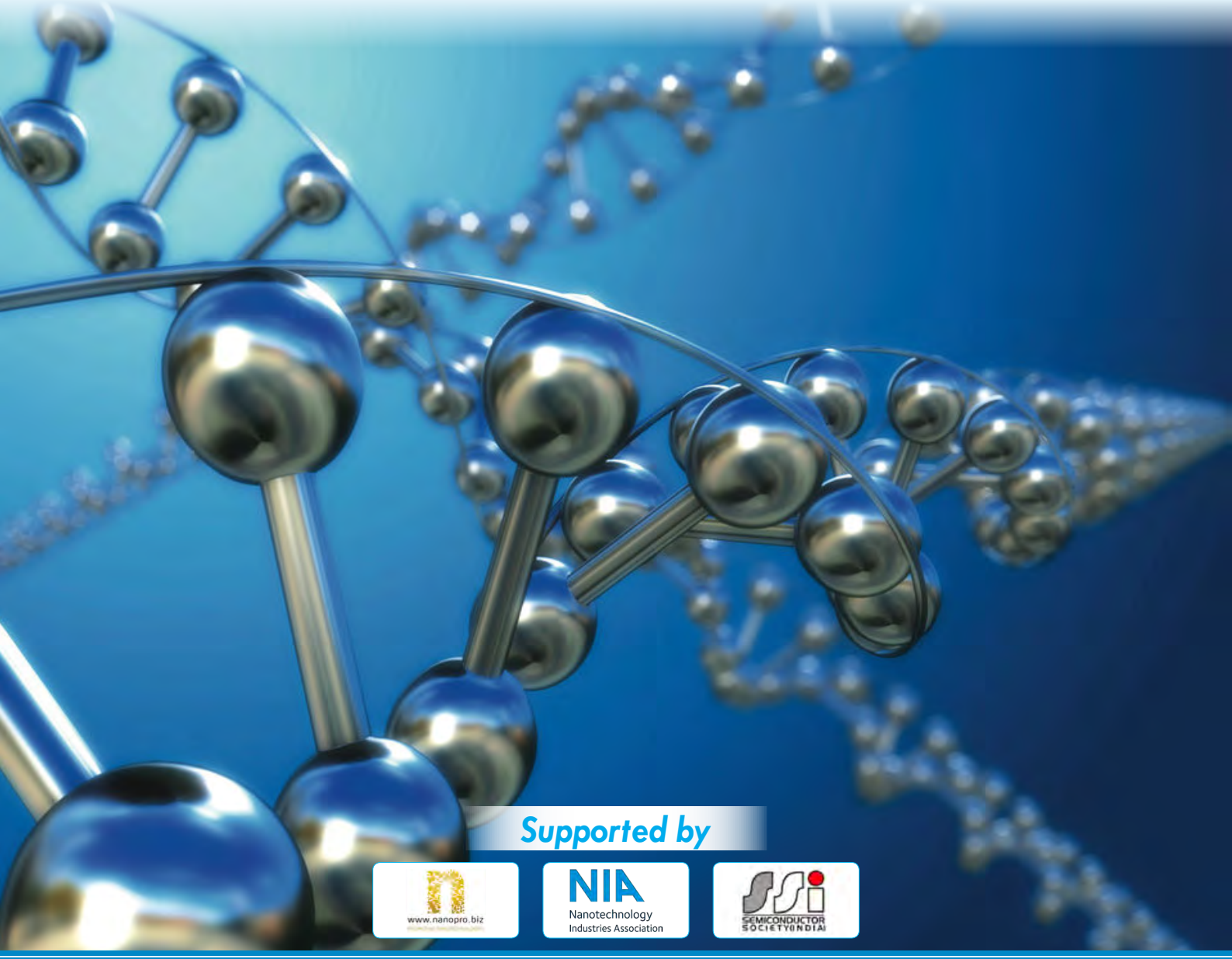
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October 06, 2013

Registrations

Day 1 October 07, 2013

Registrations

Salon A

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Opening Ceremony

Keynote Forum

Introduction

Isaac C. Sanchez
University of Texas, USA

Arumugam Manthiram
University of Texas at Austin, USA

Dongyang Li
University of Alberta, Canada

Coffee Break

Aris Christou
University of Maryland, USA

Zhifeng Ren
University of Houston, USA

Federico Rosei
University of Quebec, Canada

Track 1: Materials Science and Engineering (Session 1)

Session Chair: Xiao Wang Zheou, Sandia National Laboratories, USA

Session Co-Chair: Frederique Gadot, University of South Paris, France

Session Introduction

Title: Big data is the future of material science
Alex V. Vasenkov, Multiscale Solutions Inc., USA

Title: Analytical bond-order potential for aluminum
Xiao Wang Zhou, Sandia National Laboratories, USA

Group Photo @ Salon A

Lunch Break

Title: Effect of bio field treatment on the physical and thermal characteristics of silicon, Tin and lead powders
Shrikant Patil, Trivedi foundation, USA

Title: Metamaterials and their applications for astrophysical and medical domains
Frederique GADOT, University of South Paris, France

Title: Atomistic simulations of initial yield mechanism in ultrafine-grained metals
Tomohito Tsuru, Japan Atomic Energy Agency, Japan

Title: Understanding materials based on the electron work function
Dongyang Li, University of Alberta, Canada

Title: Physical characterization and microstructure evaluation of titanium dioxide semiconductor discs processed with binders
Shahida Begum, Universiti Tenaga Nasional, Malaysia

Title: Potential of microwave processed cordierite based glass-ceramic glazes for next generation floor tiles
Sumana Ghosh, Central Glass and Ceramic Research Institute, (CSIR), India

Coffee Break

Title: Mechanical behavior of pure aluminum processed by constrained groove pressing
Shantharaja M, Bangalore University, India

Title: Evaluation of material and mechanical properties of mullite bonded porous SiC ceramics prepared by an infiltration technique and conventional powder processing routes
Nijhuma Kayal, Central Glass and Ceramic Research Institute, (CSIR), India

Title: Characterization study of functionally graded metal ceramic composites fabricated by layer processing technique
Kumar R, M S Ramaiah Institute of Technology, India

Title: Enhanced performance of zinc oxide arrester by simple modification in processing and design
Shahida Begum, Universiti Tenaga Nasional, Malaysia

Title: Comparative Study of microstructure & mechanical properties of plain wire rod and TMT wire rod manufactured at Bhilai Steel Plant (BSP), India
Aparna Lohiya, Kansas State University, USA

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Fiji

Track 1: Materials Science and Engineering (Session 2)

Session Chair: Anand Chokkalingam, The University of Queensland, Australia

Session Co-Chair: Kholmurad Khasnov, M. V. Lomonosov Moscow State University, Russia

Session Introduction

Title: The effect of binder and pressure on the preparation of recycled soda lime silica glass composite bodies
Adele Dzikwi Garkida, Ahmadu Bello University, Nigeria

Title: Production of new conjugated polymer through maillard reaction between Durian Seed Gum (DSG) and Whey Protein Isolate (WPI)
Hamed Mirhosseini, University Putra Malaysia, Malaysia

Group Photo @ Salon A

Lunch Break

Title: Phenomena of interaction of external field and synthesis of new materials
Kholmurad Khasanov, M. V. Lomonosov Moscow State University, Russia

Title: Flow ability characteristics, functional properties and rheological properties of a natural carbohydrate-protein biopolymer
Bahareh Tabatabaee Amid, University Putra Malaysia, Malaysia

Title: Novel nanoporous superacids with ordered porous structure for fFine chemical synthesis
Chokkalingam Anand, The University of Queensland, Australia

Title: Computing macroscopic mechanical properties of heterogeneous composites
Hyunsun Lee, Hawaii Pacific University, USA

Title: Magnetoelectric and dielectric properties of $PbZr_{0.52}Ti_{0.48}O_3$-$Co_{0.6}Zn_{0.4}Mn_{0.3}Fe_{1.7}O_4$- $PbZr_{0.52}Ti_{0.48}O_3$ trilayer composites
Arti Gupta, University of Delhi, India

Track 3: Energy Materials

Session Chair: Satish K. Nune, Pacific Northwest National Laboratory, USA

Session Co-Chair: Takao Mori, National Institute for Materials Science (NIMS), Japan

Session Introduction

Title: Hierarchical nanoporous carbon architectures for super capacitor applications
Satish K. Nune, Pacific Northwest National Laboratory, USA

Coffee Break

Title: Developing high temperature thermoelectric materials through control of atomic and grain structure
Takao Mori, National Institute for Materials Science (NIMS), Japan

Title: Development and characterization of poly(arylene ether sulphone)based polymer electrolyte membranes for direct methanol fuel cell applications
Erde Can, Yeditepe University, Turkey

Title: Seeing small: Enabling new discoveries in energy materials through advanced transmission electron microscopy
Paulo J. Ferreira, University of Texas at Austin, USA

Title: A simple thermal plasma method to produce pure graphene flake structures
Ramona Pristavita, McGill University, Canada

Title: Beyond li-ion - A case for magnesium battery systems
Nikhilendra Singh, Toyota Research Institute of North America, USA

Title: Evolution of the flux combination for pelletization of high alumina iron ore fines
T. K. Sandeep Kumar, Lulea University of Technology, Sweden

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Tahiti

Track 4: Mining and Metallurgy
Track 5: Surface Science and Engineering

Session Chair: Raymundo Ordonez Olivares, University of Pittsburgh, USA

Session Co-Chair: Viswanathan S. Saji, Korea University, Republic of Korea

Session Introduction

Title: Strategic metals in the United States civil war
Charles D. Ross, Longwood University, USA

Title: Annealing behavior of titanium bearing HSLA steel through electron back scattering diffraction
R. Ordonez, University of Pittsburgh, USA

Group Photo @ Salon A

Lunch Break

Title: Electrochemical reduction of Eu (III) for the recovery of Eu from rare earth materials solution using turbulent-induced cell
Kyeong Woo Chung, Korea Institute of Geoscience and Mineral Resources, Korea

Title: Corrosion control and nanomaterials
Viswanathan S. Saji, Korea University, Republic of Korea

Title: High-wavelength, low-energy photochemical surface engineering
Jason R. Tavares, Polytechnique Montreal, Canada

Title: Catalyst surface design by molecular imprinting of oxide-supported ru complex catalyst for regioselective epoxidation
Satoshi Muratsugu, Institute for Molecular Science, Japan

Title: Creation of an environmental atlas for a quarry cluster
Sampath Kumar M.C, B.M.S College of engineering, India

Title: Recovery of valuable metals from spent SCR catalysts for de-NOx by soda roasting
Jin-Young Lee, Korea Institute of Geoscience & Mineral Resources, Korea

Coffee Break

Title: Optimization of coating parameters on coating morphology of basalt short fiber for preparation of Al/Ba salt metal matrix composites
S. Paul Vizhian, Bangalore University, India

Title: The hydrophobic to hydrophilic transition of graphene in the presence of H_2O molecules
Zhimin Ao, The University of Technology, Australia

Title: Effect of thermal treatment and rolling on mechanical properties and corrosion resistance of aluminum- hematite composite
C. N. Chandrappa, M S Ramaiah Institute of Technology, India

Title: Effect of particle size on mechanical properties of SiC particle-reinforced aluminium alloy composites
M. C. Krishnamurthy, BMS Evening College of Engineering, India

Title: Cutting force and surface roughness analysis using gray based taguchi method for turning operation
Umesh C. K, Bangalore University, India

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Day 2 October 08, 2013

Salon A

Track 2: Nanomaterials and Nanocomposites (Session 1 A)

Session Chair: Kytai T. Nguyen, University of Texas at Arlington, USA

Session Co-Chair: Ramesh K. Agarwal, Washington University in St. Louis, USA

Session Introduction

Title: Dual-imaging enable nanoparticles for diagnosis and therapy of prostate cancer
Kytai T. Nguyen, University of Texas at Arlington, USA
Title: Controlling the interfacial properties of carbon nanotubes
Kirk J. Ziegler, University of Florida, USA
Title: CFD Simulations of transport of atmospheric aerosols and nanoparticles in models of human respiratory system
Ramesh K. Agarwal, Washington University in St. Louis, USA
Title: Controlling interphase formations in polymer/nano-carbon composite fibers for improving mechanical performance
M. L. Minus, Northeastern University, USA
Title: Cutting edge developments in the analysis of protein colloids in amyloid fiber formation
Jonathan R. Anson, Florida Institute of Technology, USA
Title: Nanostructured composites for controlled drug delivery and stem cell functions
Huinan Liu, University of California at Riverside, USA

Coffee Break & Poster Presentations

Title: Precision manipulation, assembling, and actuation of nanoentities by electric tweezers
Donglei (Emma) Fan, The University of Texas at Austin, USA
Title: Site-targeting nanotherapeutics for micro vascular normalization
Kaustabh Ghosh, University of California, USA
Title: Properties and fabrication of functional oxide nanoparticles for future electronic devices
Keigo Suzuki, Murata Manufacturing Co.Ltd., Japan
Title: Smart nanostructured implants for regenerative nanomedicine
N. Benkirane-Jessel, French National Institute of Health and Medical Research, France

Lunch Break

Track 2: Nanomaterials and Nanocomposites (Session 1 B)

Session Chair: Farid Menaa, Fluorotronics Inc., USA

Session Co-Chair: Abdel Hadi Kassiba, University of Maine, France

Session Introduction

Title: Nanostructures for control of nansocale light-matter interaction
Ganapathi Subramania, Sandia National Laboratories, USA
Title: Popping up graphene oxide for capacitive applications
Lianxi Zheng, Nanyang Technological University, Singapore
Title: Functional nanocomposites based on silicon carbide nanoparticles: Selected insights on electronic and optical features
Abdel Hadi Kassiba, University of Maine, France
Title: Characterization and application of nanoalumina prepared by different routes
Nelcy D. S. Mohallem, Universidade Federal de Minas Gerais, Brazil
Title: Flame retardant nanocomposites for engineering application
R. Suresh, R V College of Engineering, India
Title: Preparation and wear characterisation of zirconium nano particle reinforced with Al356.1 aluminium alloy matrix
Chittappa H. C, Bangalore University, India
Title: Chiral quantum dots
Y. K. Gun'ko, Trinity College of Dublin, Ireland
Title: Graphene & derivatives: The G point in regenerative medicine?
Farid Menaa, Fluorotronics Inc., USA

Coffee Break

Title: Thermal stability and mechanical properties of nanostructured coatings for innovative applications in the oil and gas industry
F. Musharavati, Qatar University, Qatar
Title: Catalytic reactions on Pt nanoclusters. Size and coverage effects in CO oxidation and methanol decomposition
Sergey Dobrin, University of Toronto, Canada
Title: Graphite reinforced polymer nanocomposites for conducting packaging applications
Sarat K. Swain, Veer Surendra Sai University of Technology, India
Title: Biotemplated semiconductor/metal nanostructures - Their characteristic features and future prospects
Anil Kumar, Indian Institute of Technology Roorkee, India

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Fiji

Track 2: Nanomaterials and Nanocomposites (Session 2)

Session Chair: Cengiz S. Ozkan, University of California Riverside, USA

Session Co-Chair: Hai- Feng Frank Ji, Drexel University, USA

Session Introduction

Title: Nanoparticles in humans: Experiments, methods and strategies
Lev S. Ruzer, Lawrence Berkeley National Laboratory, USA
Title: Needleless electrospinning of nanofiber nonwovens and highly-twisted nanofiber yarns
Tong Lin, Deakin University, Australia
Title: Self assembled organic and organic-Inorganic nanopillars
Hai-Feng Frank Ji, Drexel University, USA
Title: Van der Waals interaction between nanostructures
Jianmin Tao, Tulane University, USA
Title: Nanostructured materials for advanced energy storage
Cengiz S. Ozkan, University of California Riverside, USA
Title: Synthesis and self-assembly of dielectric nanocubes
Dewei Chu, University of New South Wales, Australia

Coffee Break & Poster Presentations

Title: Aerosols handbook: Measurement, dosimetry, and health effects
Lev S. Ruzer, Lawrence Berkeley National Laboratory, USA
Title: Titanium dioxide based nanostructured polycarbazole reinforced Organic-Inorganic composite material
Mohammad Shakir, Aligarh Muslim University, India
Title: Design of nanoporous cluster-assembled materials
Jon M. Matxain, University of the Basque Country, Spain
Title: Origin of huge coercivity in iron oxide ε-Fe2O3
Marie Yoshikiyo, The University of Tokyo, Japan
Title: Interface engineering of CeO_2 nanostructure based memristors
Adnan Younis, University of New South Wales, Australia

Lunch Break 12:35-13:20 @ Event Center

Track 6: Biomaterials and Tissue Engineering

Session Chair: Narayan Bhattarai, North Carolina A&T State University, USA

Session Co-Chair: Hongjing Dou, Shanghai Jiao Tong University, China

Session Introduction

Title: The Effect of polymer/ceramic scaffold architecture and composition on the growth of MC3T3 osteoblastic cell line
Amy Yousefi, Miami University, USA
Title: Functional electrospun nanofibers for biomedical applications
Narayan Bhattarai, North Carolina A&T State University, USA
Title: *In vitro* and *ex vivo* toxicology of antimicrobial conjugated electrolytes: Interactions with mammalian cells
Heather Canavan, University of New Mexico, USA
Title: Osteoporosis treatment of hybrid biomaterial chitosan- bioactive glass graft: Effects on bone remodeling
Hassane Oudadesse, University of Rennes1, France
Title: Solid-liquid multiphase simulation of protein-surface interaction and protein adsorption on polymer surfaces
P. K. Biswas, Tougaloo College, USA
Title: Revolutionizing metallic biomaterials for biodegradable implants
J. Sankar, North Carolina A&T State University, USA
Title: Electrochemical synthesis and evaluation of platinum-iridium-oxide thin film for biomedical applications
Artin Petrossians, University of Southern California, USA
Title: Hierarchical scaffolds produced by a hybrid solid free form fabrication/thermally-induced phase separation technique
Amy Yousefi, Miami University, USA

Coffee Break

Title: Medical applications of amphiphilic comb type graft copolymer containing inorganic nanoparticles
Derya Burcu Hazer, Mugla Sitki Kocman University, Turkey
Title: Structured PEGs for manipulation of biological macromolecules
Kazushi Kinbara, Tohoku University, Japan
Title: Bulk compounding of PCL-PEO blends for 3D plotting of scaffolds for cardiovascular tissue engineering
K. Ragaert, Ghent University, Belgium
Title: Advancement in tissue engineering scaffold development: Rapid prototyping technology
Md Enamul Hoque, University of Nottingham Malaysia Campus, Malaysia
Title: Enhanced effect of silver nanoparticles on the bioactivity of hydroxyapatite nanocomposite
A. A. Mostafa, University of Rennes 1, France
Title: Facile preparation of multi-scaled quantum dot barcodes and their application in multiplexed hepatitis B detection
Hongjing Dou, Shanghai Jiao Tong University, China
Title: Reprogramming macrophages to combat cancer by engineering polymer surface properties
Kaitlin M. Bratlie, Iowa State University, USA

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Day 3 October 09, 2013

Salon A

Track 7: Materials Chemistry (Organic and inorganic) and Sustainable Chemistry
Track 8: Biophysics & Systems Biology

Session Chair: Shin-ichi Ohkoshi, The University of Tokyo, Japan

Session Co-Chair: Toshio Naito, Ehime University, Japan

Session Introduction

Title: Giant vesicles prepared by nitroxide-mediated photo-controlled/ living radical polymerization-induced self-assembly
Eri Yoshida, Toyohashi University of Technology, Japan
Title: Production of jet and diesel fuel blend stocks from dienes via catalysis
Padmaja Gunda, Pacific Northwest National Laboratory, USA
Title: Novel functionalities on metal complex material and metal oxide-based nanomaterial
Shin-ichi Ohkoshi, The University of Tokyo, Japan
Title: Reversible and simultaneous control of conduction and magnetism in organic materials by UV irradiation
Toshio Naito, Ehime University, Japan
Title: Hepatic and renal toxicity of cadmium in protein malnourished rats
Syed Saleem Husain, Jazan University, KSA

Coffee Break

Title: The study of rhodium substituted ε-iron oxide nanomagnets exhibiting gigantic coercive field, high frequency millimeter wave absorption
Asuka Namai, University of Tokyo, Japan
Title: Evaluation of effect of different solvents on the oxidation of benzyl alcohol & cyclohexanol using modified clays
N. Suma, Global Academy of Technology, India

Track 9: Optics and Laser Technology
Track 10: Advances in Instrumentation Technology
Track 11: Emerging Areas of Materials Science

Session Chair: Avin Pillay, The Petroleum Institute, UAE

Session Co-Chair: Victor Abrukov, Chuvash State University, Russia

Session Introduction

Title: Atomic-level precise artificial atom towards material innovation
Norifusa Satoh, National Institute for Materials Science, Japan
Title: High-speed atomic force microscopy for video imaging of functioning biological molecules
Noriyuki Kodera, Kanazawa University, Japan
Title: Antimicrobial surfaces containing immobilized photosensitizers
Marina Nisnevitch, Ariel University, Israel
Title: PAC Spectroscopy: A technique to characterize materials at an atomic scale
R. Dogra, Beant College of Engineering & Technology, India

Lunch Break 12:55-13:40 @ Event Center

Title: An educational perspective on Materials Science
Souhaila F. Almutawa, Kuwait University, Kuwait
Title: In-homogenous broadening in InP/AlGaInP quantum dot laser structures
Mohammed Saad Al-Ghamdi, King Abdulaziz University, Saudi Arabia
Title: Geometric stabilities, electronic and magnetic properties of stable palladium adsorption on graphene-A first principle study
Md Mahmudur Rahman, Universiti Putra Malaysia, Malaysia
Title: Novel approach for deep-UV depth-profiling studies (ICP-MS) of soft waxes and asphaltenes using liquid nitrogen pre-treatment
Avin Pillay, The Petroleum Institute, UAE