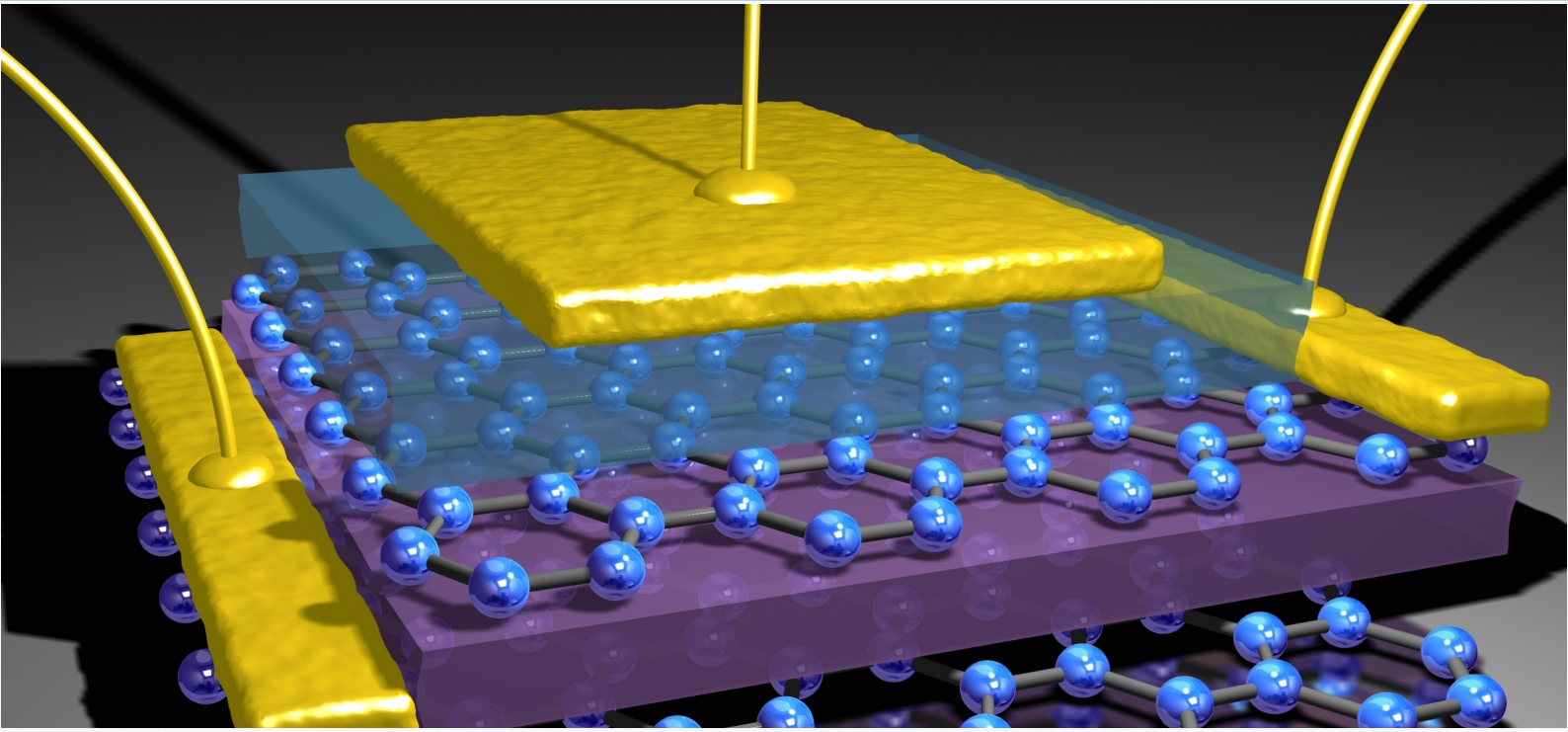
Scientific Programme

International Conference on

Graphene and Semiconductors

Chicago, IL, USA July 17-18, 2017



For available speaker slots

graphene@materialsconferences.org

300+ Participation

- **28+** Interactive Sessions
- **15+** Keynote Lectures
- **75+** Plenary Lectures
- **5+** Workshops

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International Conference on

Graphene and Semiconductors

Chicago, IL, USA July 17-18, 2017

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)		
Evening Sessions	11.00-12.40		Graphene Synthesis
	Lunch Break 12.40-13.30		
	13.30-15.30		Chemistry and biology studies of graphene
	Coffee/Tea Break 15.30-15.45 (Networking)		
	15.45-17.25		Workshop

Day 2

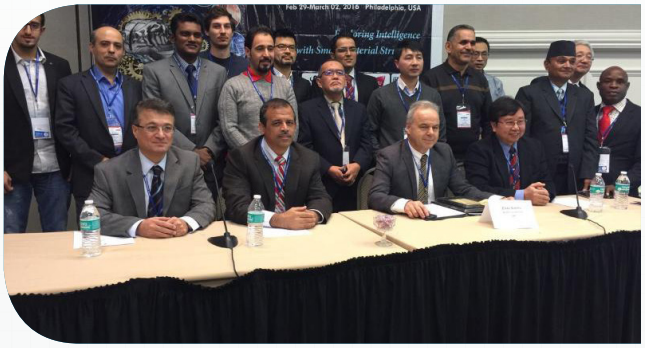
	Time	Session 1	Session 2
Morning Sessions	09.00-10.40	Keynote Forum	Graphene modification and functionalization
	Coffee/Tea Break 10.40-10.55 (Networking)		
	10.55-12.35	Large scale graphene production and characterization	Applications of graphene in energy, Applications of graphene in energy
	Lunch Break 12.35-13.25		
Evening Sessions	13.25-15.05	Semiconductors, Semiconductor Materials and Nanostructures	Organic/Inorganic Hybrid Semiconductors and Perovskites, Carbon nanotubes and graphene
	Coffee/Tea Break 15.05-15.20 (Networking)		
	15.20-17.00	Quantum optics and nanophotonics in semiconductor	enterperneurs investment meet

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

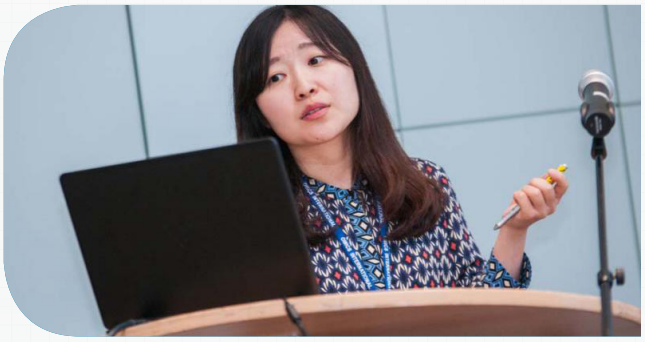
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Glimpses of Graphene

















Tourism Attractions



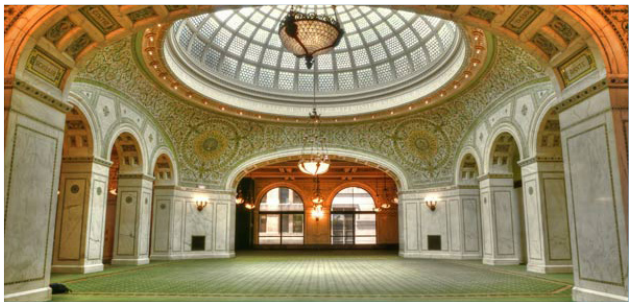
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Chicago History Museum_



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Willis Tower Sky Deck



Lincoln-Park



Millenium-Park



Navy-Pier

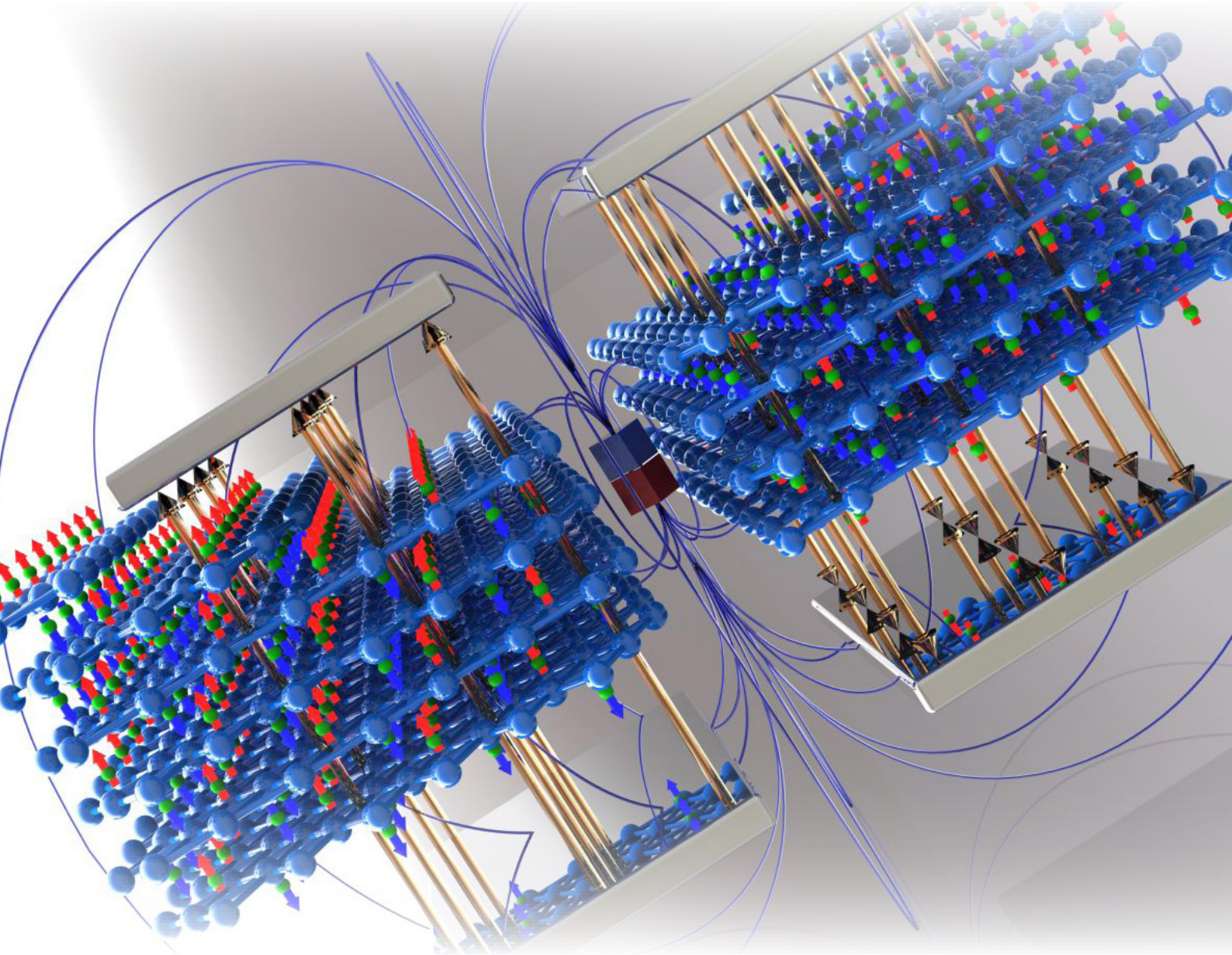
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569th Conference

Scientific Program

2nd International Conference and Expo on

Ceramics & Composite Materials

July 25-26, 2016 Berlin, Germany



Hosting Organization: Conference Series LLC
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Scientific Program

Day 1 July 25, 2016

Registrations

Epsilon

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Opening Ceremony

Keynote Forum

Introduction

Title: Mechanism for dielectric loss and temperature dependence of dielectric constant (ε) in modern microwave materials
Nathan Newman, Arizona State University, USA

Title: Innovation in nanostructured ceramic coatings for structural, functional and biomedical applications
Kwang Leong Choy, University College London, United Kingdom

Coffee Break @ Main Lobby

Sessions:
- Porous Ceramics
- Sintering
- Bioceramics

Session Introduction

Session Chair: Lucie Bacakova, Czech Academy of Sciences, Czech Republic

Title: Development, characterization and biological evaluation of novel glass-like coatings for cardiovascular implant application
Martin Amlung, INM-Leibniz-Institute for New Materials, Germany
Title: An overview of ceramics in dentistry: Basic properties and clinical applications
Csaba Hegedus, University of Debrecen, Hungary
Title: Flash spark plasma sintering of advanced materials
Salvatore Grasso, Queen Mary University of London, UK
Title: Biomedical applications of zeolites- A review
Lucie Bacakova, Czech Academy of Sciences, Czech Republic
Title: On calibration of micro-crack model of thermally induced cracks through inverse analysis
Vladimir Buljak, University of Belgrade, Serbia

Group Photo

Lunch @ Element I+II Restaurant

Title: Porous composite materials ZrO_2(Mg)-MgO for biomedical applications
Sergei Kulkov, Institute of Strength Physics and Materials Science SB RAS, Russia
Title: Characterisation of pellets and beams from barium titanate perovskite granulates
Mojtaba Biglar, Rzeszow University of Technology, Poland

Workshop on Nanoceramics

Ajay Kumar Mishra, University of South Africa, South Africa

Sessions:
- Advanced Ceramic Materials
- Nanostructured Ceramics
- Ceramics Applications

Session Introduction

Session Chair: Sergei Kulkov, Institute of Strength Physics and Materials Science SB RAS, Russia

Title: Electronegative guests in $CoSb_3$
Jihui Yang, University of Washington, USA

Coffee Break 15:35-15:50 @ Main Lobby

Title: Silicon carbide: A versatile nano-material
Ajay Kumar Mishra, University of South Africa, South Africa
Title: A comparative study of copper-cermet anode material synthesized by different technique
Shabana P S Shaikh, SBP Pune University, India
Title: Development of cow bone particulate reinforced epoxy composites for biomedical applications
Oladele I O, Federal University of Technology, Nigeria

Title: Complex oxides with negative thermal expansion for CMC and MMC with invar effect
Sergei Kulkov, Institute of Strength Physics and Materials Science SB RAS, Russia
Title: Towards multielement core-shell ceramics in the Zr/Si/C system
Romain Lucas, University of Limoges, France
Title: Structural, dielectric, piezoelectric and impedance study of a new lead free ferroelectric ceramics (Ba,M)(Ti,M')O_3, M=Ca;Sr and M'=Sn;Zr
H Msouni, University of Cadi Ayyad, Morocco
Title: *In-situ* electron paramagnetic resonance studies of performance-degrading defects in superconducting microwave resonators
Nathan Newman, Arizona State University, USA

Day 2 July 26, 2016

Epsilon

Keynote Forum

Title: New X-ray developments to characterize ceramic materials
Alex Dommann, Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland
Title: Sustainable energy, fractals and micro-nano sizes
Vojislav Mitić, University of Nis, Serbia
Title: Magnesium/Hydroxyapatite nanocomposites for biomedical applications
Yan Huang, Brunel University, UK

Sessions:
- Ceramics
- Ceramics & Composites
- Advanced Materials and Technologies

Session Introduction

Session Chair: Frédéric Aguesse, CIC Energigune, Spain

Title: No more guessing: Measure size and shape simultaneously by combined laser diffraction and dynamic image analysis
Thomas D Benen, Microtrac GmbH, Germany

Coffee Break @ Main Lobby

Title: Phase contrast and x-ray dark field imaging: new possibilities for analyzing tooth reconstruction
Alex Dommann, Swiss Federal Laboratories for Materials Science and Technology, Switzerland
Title: Synthesis and characterization of Al-Si_3N_4 nanocomposites processed by microwave sintering process
R A Shakoor, Qatar University, Qatar
Title: Exploring the limitations of garnet ceramic electrolytes for all-solid-state Li batteries
Frédéric Aguesse, CIC Energigune, Spain
Title: Innovative carbon-free precipitation hardened tool steel composites
Saied Elghazaly, Central Metallurgical R&D Institute, Egypt

Sessions:
- Composite Ceramic Materials
- Ceramic Coatings

Session Introduction

Session Chair: Hans Juergen Seifert, Karlsruhe Institute of Technology, Germany

Title: Optical and mechanical properties of innovative $Ti0_2/Si0_2$ thinfilms
A Poulon-Quintin, University of Bordeaux, France
Title: Synthesis of novel composite based on carbon nanotube for electrochemical application
Zih-Jyun Chen, Tunghai University, Taiwan

Lunch @ Element I+II Restaurant

Title: Dissimilar welding of high shear strength Ti_2SnC/Cu/Ti_6Al_4V joint at low temperature
Wenbo Yu, Tsinghua University School of Material Science and Engineering, China
Title: Ceramic coatings fabricated by micro-arc oxidation on ZK60 magnesium alloys under step current mode
Sheng Lu, Jiangsu University of Science and Technology, China

Coffee Break and Poster Presentations from @ Main Lobby

Title: 3D additive manufacturing of bioceramic applied to the bone reconstruction using reverse thermo-responsive hydrogel technique
Chih-Kuang Wang, Kaohsiung Medical University, Taiwan
Title: All-solid state Li-ion batteries with ceramic electrolyte
Vasily Tarnopolskiy, CEA Grenoble (LITEN), France
Title: The absorption and radiation transitions of Mn2+ ions in the polyvinyl pyrrolidone capped ZnS: Mn nanoparticles
Tran Minh Thi, Hanoi National University of Education, Vietnam

CCM 004 **Title: Evaluation of mechanical properties and cell response of glass infiltrated zirconia after sandblasting**
Sang-Won Park, Chonnam National University, Republic of Korea

Title: Mechanical alloying, sintering and characterization of Al-10 wt% Al_2O_3 nanocomposite
Mahmoud Nasr El-Din Mohammed, National Research Centre, Egypt
Title: Synthesis of miserite or wollastonite glass-ceramics for dental applications
Jae Chul Bang, Soonchunhyang University, Korea
Title: Peculiarities of vibration assisted surface finishing methods for brittle material surfaces
Gytautas Balevičius, Kaunas University of Technology, Lithuania
Title: Surface Treatment of yttria-stabilized tetragonal zirconia polycrystals with argon plasma-jet: A pilot study
Emre Seker, Eskisehir Osmangazi University, Turkey
Title: Evaluation of surface raughness and adhesion capability of Titanium after argon plasma-jet surface treatment: A pilot study
Basak Kusakci Seker, Eskisehir Osmangazi University, Turkey
Title: Effect of sintering temperature on the microstructure and electrical properties of porous BS-0.64PT piezoceramics
Jinting Tan, Jiaotong University, China
Title: Simultaneous DTA-TGA i8nvestigation of thermal behaviour of photovoltaic solar crucible silicon nitride (Si3N4) coating material at high temperatures
Chettat Yassine, CRTSE, Algeria
Title: Investigation of structural and optical properties of nickel doped ZnO deposited by MW-CBD method
Yasemin Caglar, Anadolu University, Turkey
Title: Fabrication and characterization of p-Si/n-MgZnO heterojunction diode
Mujdat Caglar, Anadolu University, Turkey
Title: Electrochemical alternative energy microstructure fractal perspectives
Vojislav Mitić, University of Nis, Serbia
Title: Wind energy exploration fractal perspectives
Vojislav Mitić, University of Nis, Serbia
Title: Electrodeposited boron doped ZnO films: Preparation and characterization
Saliha Ilican, Anadolu University, Turkey
Title: Applications of microfluidic chips in functional polymers
Keng-Shiang Huang, I-Shou University, Taiwan
Title: Phase stability and corrosion resistance of SiC and Yttrium-Silicate EBCs on SiC in moist atmosphere
Hans Juergen Seifert, Karlsruhe Institute of Technology, Germany
Title: Effect of Ti_3SiC_2 on friction and wear properties of Cu alloy matrix composite
Q Zou, Yanshan University, P. R. China
Title: Bio-inspired SiCf-reinforced Ti-intermetallic multi-layers composite: Synthesis, microstructure and mechanical properties
Wenbo Yu, Tsinghua University School of Material Science and Engineering, China
Title: Optical properties and crystallization kinetic of tellurite glass–ceramics
Nehal Elkhoshkhany, Alexandria University, Egypt

Panel Discussion and Certificate Distribution

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Ceramics & Composite Materials

June 29-30, 2017 Madrid, Spain

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Scientific Program

338th OMICS International Conference

International Conference and Expo on

Ceramics

Chicago, USA August 17-18, 2015



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Day 1 August 17, 2015

Registrations

Room - 4

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Opening Ceremony

Keynote Forum

Introduction

Smart advanced ceramic materials for energy and environmental technology

Alexander Michaelis, Fraunhofer Institute of Ceramic Technologies & Systems, Germany

Coffee Break

Group Photo

Track 5: Designing and Engineering of Ceramic Composites
Track 6: Ceramics and Systems for Energy and Environment
Track 7: Surface Engineering and Ceramic Coating
Track 8: Innovative Processing and Synthesis

Session Chair: Marius Stan, Argonne National Laboratory, USA
Session Co-Chair: Raed Abu-Reziq, The Hebrew University of Jerusalem, Israel

Session Introduction

Title: New Comprehensive Defect-Crystal-Chemistry Approach to Defect-Fluorite Oxides; $(M_{1-y}Ln_y)O_{2-y/2}$ (M^{4+} = Zr, Hf, Ce and Th etc, Ln^{3+} = lanthanide)
Akio Nakamura, Japan Atomic Energy Agency, Japan
Title: Advancements in Ceramics
Hiroyuki Shimada, Toshio Suzuki, Koichi Hamamoto, National Institute of Advanced Industrial Science and Technology
Title: Advanced ceramics for energy systems
Alexander Michaelis, Fraunhofer Institute of Ceramic Technologies and Systems, Germany

Lunch Break

Title: Recent research on image crystals: Discovery of shape-controllable cavities surrounded by facets in ceramics
Hiroyuki Serizawa, Japan Atomic Energy Agency, Japan
Title: The design and synthesis of silica-based catalytic microreactors
Raed Abu-Reziq, The Hebrew University of Jerusalem, Israel
Title: Electrospun NiO, ZnO and composite NiO-ZnO nanofibers: Photocatalytic degradation of dairy effluent
Muzafar A Kanjwal, Technical University of Denmark, Denmark
Title: Nano-ceramics for energy storage applications
Ram Gupta, Pittsburg State University, USA
Title: Laser surface modification of Ti alloys for biomedical applications
Monireh Ganjali, Materials and Energy Research Center (MERC), Iran

Coffee Break

Title: TiC-X nanocomposite coating in-situ by laser cladding process without powder nozzle
Mansoureh Ganjali, Research Institute of Noure Zoha Materials Engineering, Iran

Day 2 August 18, 2015

Room - 4

Keynote Forum

Introduction

Ceramics world: New fractal frontiers

Vojislav V Mitic, University of Nis, Serbia

Coffee Break

Track 1: Fundamentals from Theory to Practice
Track 2: Electro-Magnetic and Optical Ceramics and Devices
Track 3: Bioceramics and Health
Track 4: Ceramics Under Severe Environments and Refractories

Session Chair: Raed Abu-Reziq, The Hebrew University of Jerusalem, Israel

Session Introduction

Title: Chemical and Heat Transport in Uranium Oxide
Marius Stan, Argonne National Laboratory, USA
Title: Preparation of some metal oxides nanoparticles using chitosan as template
Magdy Y. Abdelaal, King Abdulaziz University, Saudi Arabia
Title: Aerogel-based bioceramic in dentistry
Csaba Hegedűs, University of Debrecen, Hungary
Title: Modification of Mg-doped fluoridated hydroxyapatite nanoparticles by amino acids as a drug delivering nanobio-polymer composite for tissue engineering
Zeinab Fereshteh, Isfahan University of Technology

Lunch Break

Poster Sessions

14:00-14:30	**Graphene-Reinforced Calcium Phosphate Cements for Bone Tissue Engineering**
	Jong Hoon Chung, Seoul National University, Republic of Korea
14:30-15:00	**Tribological and mechanical behavior of WC-Ni hardfacing using Ni-Cr as interlayer**
	Cheniti Billel, University of Science and Technology Houarie Boumadiane (USTHB), Algeria

Award Ceremony

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665th Conference

Scientific Program

6th International Conference and Exhibition on

Materials Science and Engineering

September 12-14, 2016 Atlanta, USA



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Registrations

Chattahooche-A

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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: @ Foyer

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 @ Foyer

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: @ Foyer

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: @ Foyer

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 @ Foyer

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: @ Foyer

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: @ Foyer

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 @ Foyer

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 @ Foyer

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 @ Foyer

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