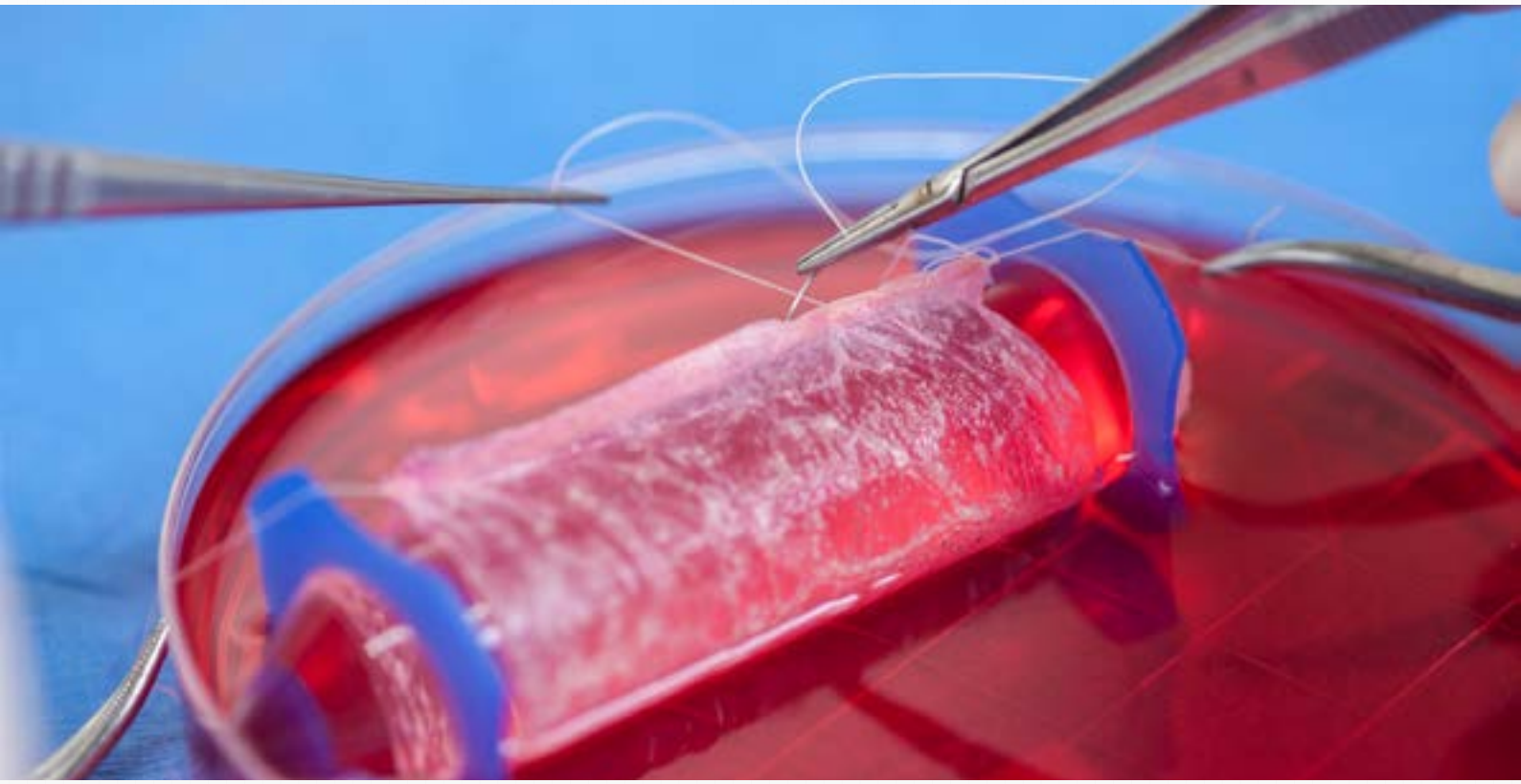
Tentative Program

2nd Annual Conference And Expo On

Biomaterials

March 27-28, 2017 Madrid, Spain



For available speaker slots

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300+ Participation

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- 75+ Plenary Lectures
- 5+ Workshops

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Tentative Program

2nd Annual Conference And Expo On

Biomaterials

March 27-28, 2017 Madrid, Spain

Day 1			
Morning Sessions	**Reception/Registration**	**08.00-09.00**	
		Time	**General Session**
		09.00-09.15	Inaugural Address
	3 Keynote/Plenary Talks	09.15-09.45	Keynote/Planery talk 1
		09.45-10.15	Keynote/Planery talk 2
		10.15-10.45	Keynote/Planery talk 3
	Panel Discussions/Group Photo		
	Coffee/Tea Break 10.45-11.00 (Networking)		
	11.00-12.40		Advanced Biomaterials
Evening Sessions			
	Lunch Break 12.40-13.30		
	13.30-15.30		Polymer Biomaterials
	Coffee/Tea Break 15.30-15.45 (Networking)		
	15.45-17.25		Workshop

Day 2				
Morning Session		**Time**	**Session 1**	**Session 2**
	09.00-10.40		Keynote Forum	
	Coffee/Tea Break 10.40-10.55 (Networking)			
	10.55-12.35		Properties of Biomaterials	Biomaterials Applications
Evening Session	**Lunch Break 12.35-13.25**			
	13.25-15.05		Biomaterials companies and Market Analysis	Biomaterials and Nanotechnology
	Coffee/Tea Break 15.05-15.20 (Networking)			
	15.20-17.00		Biomaterials Engineering	Biomaterials: Synthesis and Characterization

Poster presentation @ 17.00-18.00

Awards & Closing Ceremony

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

Major Scientific Sessions

- **Advanced Biomaterials**
- **Polymer Biomaterials**
- **Dental Biomaterials**
- **Properties of Biomaterials**
- **Biomaterials Applications**
- **Biomaterials Companies and Market Analysis**
- **Biomaterials and Nanotechnology**
- **Biomaterials Engineering**
- **Biomaterials: Synthesis and Characterization**
- **Tissue Engineering and Regenerative Medicine**
- **Biomaterials in Delivery Systems**
- **Biomaterials in Biological Engineering**
- **Biodegradable Biomaterials**
- **3D Printing of Biomaterials**

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
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Conference Venue

Madrid, Spain

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Phone: +1-888-843-8169, Fax: +1-650-618-1417,
Toll free: +1-800-216-6499
Email: biomaterials@conferenceseries.com

Contact us
UK: Conference Series LLC
Biomaterials 2017
Heathrow Stockley Park Lakeside House
1 Furzeground Way, Heathrow
UB11 1BD, UK
Tel: +1-800-216-6499
Email: biomaterials@conferenceseries.com

Contact us
Asia-Pacific: Conference Series LLC
Biomaterials 2017
Divyasree Building, Raidurg
6th Floor, North Block
Hyderabad 500032, INDIA
Tel: 040-33432334
Email: biomaterials@conferenceseries.com

About Madrid

Madrid is the capital and largest city of Spain. The population of the city is almost 3.2 million and that of the Madrid metropolitan area, around 6.3 million. It is the third-largest city in the European Union, after London and Berlin, and its metropolitan area is the third-largest in the European Union after London and Paris. The city spans a total of 604.3 km2 (233.3 sq mi).

The city is located on the Manzanares River in the centre of both the country and the Community of Madrid (which comprises the city of Madrid, its conurbation and extended suburbs and villages); this community is bordered by the autonomous communities of Castile and León and Castile-La Mancha. As the capital city of Spain, seat of government, and residence of the Spanish monarch, Madrid is also the political, economic and cultural centre of Spain. The current mayor is Ana Botella from the People's Party (PP).

The Madrid urban agglomeration has the third-largest GDP in the European Union and its influences in politics, education, entertainment, environment, media, fashion, science, culture, and the arts all contribute to its status as one of the world's major global cities. Due to its economic output, high standard of living, and market size, Madrid is considered the major financial centre of Southern Europe and the Iberian Peninsula; it hosts the head offices of the vast majority of the major Spanish companies, such as Telefónica, Iberia or Repsol. Madrid is the 17th most livable city in the world according to Monocle magazine, in its 2014 index.

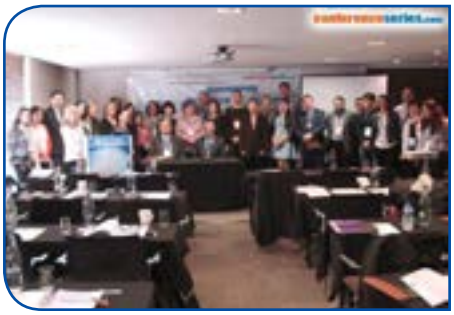


2nd Annual Conference And Expo On

Biomaterials

March 27-28, 2017 Madrid, Spain

Glimpses of Biomaterials Conferences

















2nd Annual Conference And Expo On

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March 27-28, 2017 Madrid, Spain

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Scientific Program

Annual Conference and Expo on

Biomaterials

March 14-16, 2016 London, UK



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Scientific Program

Day 1

Monday, March 14, 2016

Registrations Open

Madison

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Opening Ceremony

Keynote Forum

Introduction

Title: Bone graft substitute materials

Gordon Blunn, University College London, UK

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

Haruo Sugi, Teikyo University, Japan

Coffee Break @ Foyer Area

Session Introduction

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

Session Chair: Andrew Lewis, Biocompatibles UK Ltd, UK

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

Title: Particulate embolization agents: Impact of biomaterial physicochemical properties on clinical performance
Andrew Lewis, Biocompatibles UK Ltd, UK

Title: Uncovering the fundamentals behavior of annulus fibrosus using composite mechanics
George Youssef, San Diego State University, USA

Title: A comparison of arterial distribution of bead prototypes in a rabbit renal artery embolization model
Hugh Kilpatrick, Biocompatibles UK Ltd, UK

Title: Profiling physiochemical properties of drug-eluting bead emulsions: *In vitro* design evaluation and clinical application
Marcus Caine, Biocompatibles UK Ltd, UK

Title: Folate-conjugated star branched PLLA-b-$(PEG)_2$ copolymer as nanocarrier for targeted delivery
Ing Hong Ooi, International Medical University, Malaysia

Lunch Break @ Restaurant

Title: Thermoresponsive triblock copolymers as injectable gels
Theoni K Georgiou, Imperial College London, UK

Title: Encapsulated mesenchymal stem cells promote local neoangiogenesis by a paracrine effect
Andrew Lewis, Biocompatibles UK Ltd, UK

Title: Novel drug-eluting beads (DEBs) containing tyrosine kinase inhibitors (TKIs) for cancer therapy
Alice Hagen, Biocompatibles UK Ltd, UK

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

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

Title: Promoting cell migration in confined channels with bends
Stella W Pang, City University of Hong Kong, Hong Kong

Coffee Break @ Foyer Area

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

Panel Discussion

Day 2
Tuesday, March 15, 2016
Madison

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

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

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

Coffee Break @ Foyer Area

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

Lunch Break @ Restaurant

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

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

Session Chair: Xiaohui Zhang, Lehigh University, USA

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

Coffee Break @ Foyer Area

Poster Presentations @ Madison

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

Awards Ceremony

Panel Discussion

Day 3

Wednesday, March 16, 2016

Scientific Partnering Meetings

Coffee Break @ Foyer Area

Scientific Partnering Meetings

Lunch Break @ Restaurant

Thanks giving & Closing ceremony

Bookmark your dates

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Biomaterials

March 27-29, 2017 Madrid, Spain

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Ph: +1-888-843-8169
Fax: +1-650-618-1417
contact@omicsgroup.com

OMICS International
5716 Corsa Ave., Suite 110, Westlake
Los Angeles, CA 91362-7354, USA
Ph: +1-650-268-9744
Fax: +1-650-618-1414
contact.americas@omicsonline.org

OMICS International
SEZ Unit, Building No. 20, 9th Floor
APIIC Layout, HITEC City
Hyderabad-500081, Telangana, INDIA
Ph: 040-40131823, 040-47482222
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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

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Day 1 September 12, 2016

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

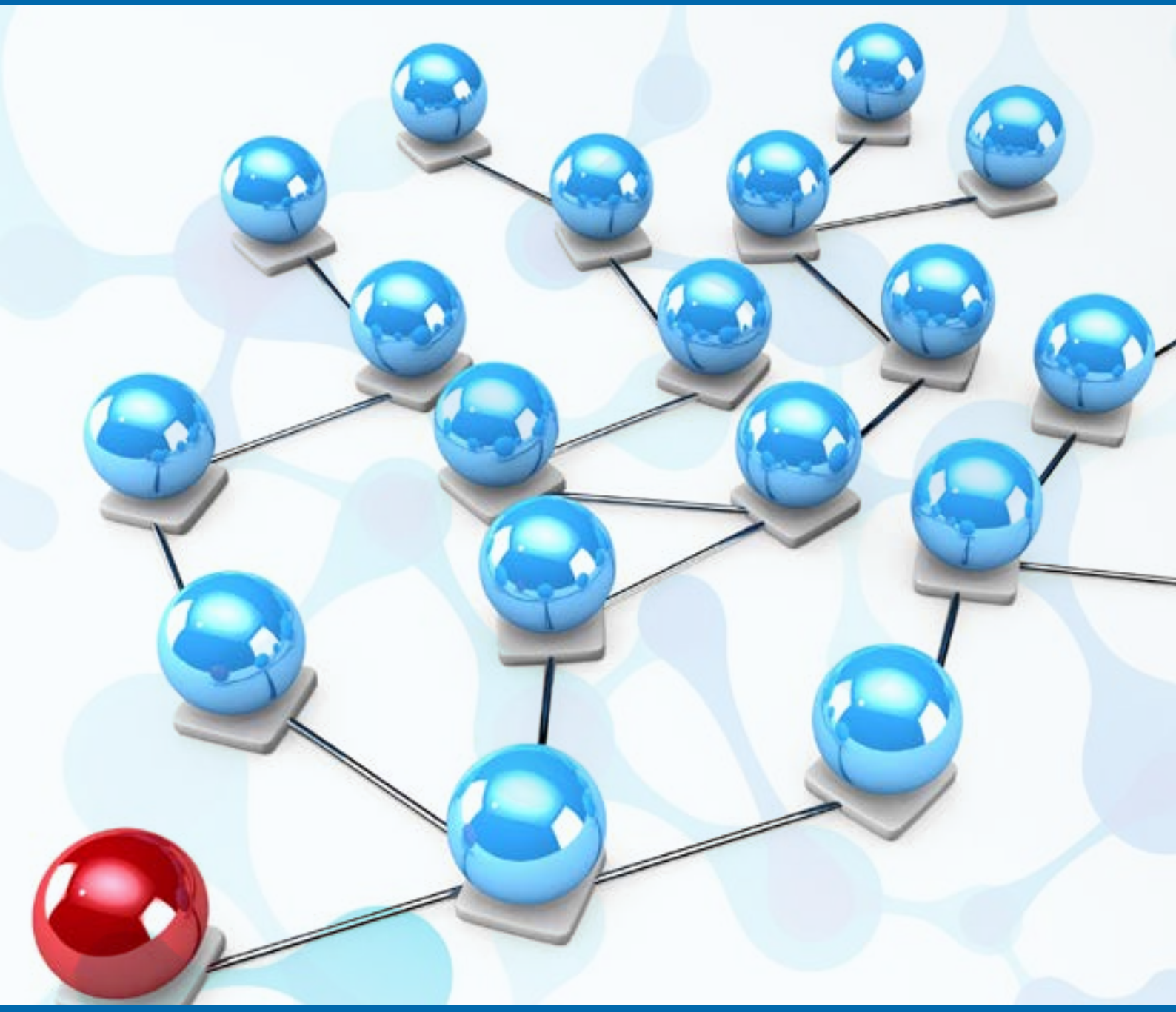
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Scientific Program

4th International Conference and Exhibition on

Materials Science & Engineering

September 14-16, 2015 Orlando, USA



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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

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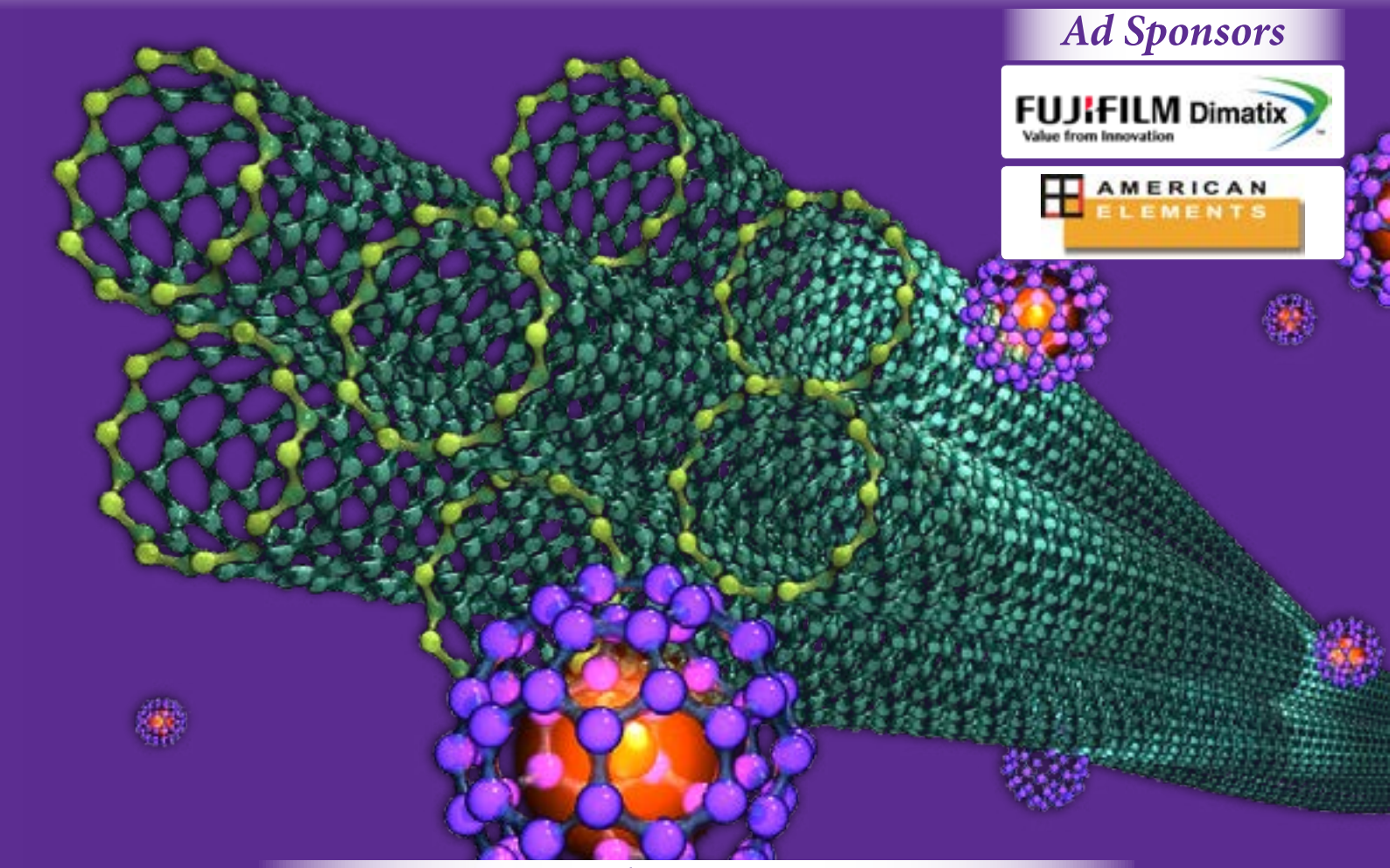
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