



Innovative Material Science & Nanotechnology Conference

July 09 - 11, 2018 Valencia, Spain

Tentative Scientific Program	
Day 1 - July 09, 2018	
8:15-9:00	Registrations
9:00-9:15	Opening Ceremony
Keynote Forum	
9:15-10:00	Title: Elimination of Failure Mechanisms of Metals
	John Campbell, University of Birmingham, UK
10:00-10:30	Title: Novel Nano Approach for Remarkable Corrosion Resistance
	Raman Singh, Monash University, Australia
10:30-11:00	Keynote Speech To Be Announced
Group Photo	
Coffee Break 11:00-11:20	
Session: Materials Science and Engineering Materials Chemistry Materials Process Engineering Emerging Areas of Materials Science	
Session Chairs	
John Campbell, University of Birmingham, UK	
Kamal Prasad, Bhagalpur University, India	

11:20-11:40	Title: Non-Invasive Characterization of Tissues and Synthetic Polymers Using Vibrational OCT
	Frederick Silver, Rutgers University, USA
11:40-12:00	Title: Elimination of Tin Whisker Growth from Electronics via Indium Addition
	Indranath Dutta, Washington State University, USA
12:00-12:20	Title: Synchrotron X-ray spectroscopy for studying electrochemical reactions in operando experiments
	Jun'ichiro Mizuki, Kwansei Gakuin University, Japan
12:20-12:40	Title: Hall Effect in Bulk-Doped Organic Single Crystals
	Masahiro Hiramoto, Institute for Molecular Science, Japan
12:40-13:00	Title: Using fiber Bragg gratin sensors and digital image correlation
	John Owen Roberts, The Open University, UK
Lunch Break 13:00-13:40	
Session Chairs	
John Owen Roberts, The Open University, UK	
Raman Singh, Monash University, Australia	
13:40-14:00	Title: Lead-Free Ceramic/Polymer Composites for Smart Sensing Applications
	Kamal Prasad, Bhagalpur University, India
14:00-14:20	Title: Horizontal Single Belt Casting of High Strength High Ductility (HSHD) Steels
	Muhammad Usman Hamid, McGill University, Canada
14:20-14:40	Title: Strategy for preventing excessive wear rate at high loads in bulk metallic glass composites
	Sergio Gonzalez Sanchez, Northumbria University, UK

14:40-15:00	Title: Blast Furnace Smelting of Titaniferous Magnetite Ores with Various Content of Titanium Dioxide
	Andrey Dmitriev, Institute of Metallurgy, Russia
15:00-15:20	Title: Bioinspired water collecting/repellent surfaces with micro- and nanostructures
	Yongmei Zheng, Beihang University, China
15:20-15:40	Title: Horizontal Single Belt Casting of High Strength High Ductility (HSHD) Steels
	Mihaiela Isac, McGill University, Canada
15:40-16:00	Speaker Slot Available
Coffee Break 16:00-16:10	
16:10-16:30	Title: Characterisation of elastomer-aramid systems for material modelling – methods
	Mikko Kanerva, Tampere University of Technology, Finland
16:30-16:50	Title: Temperature-Irradiation combined effects on Ge-doped optical fibers
	Antonino Alessi, University of Lyon, France
16:50-17:10	Speaker Slot Available
17:10-17:30	Title: Horizontal Single Belt Casting of High Strength High Ductility (HSHD) Steels
	Mihaiela Isac, McGill University, Canada
17:30-17:50	Title: The Effect of Surface Mechanical Attrition Treatment (SMAT) Parameters on Microstructure and Mechanical Properties of Commercial Pure Titanium (CP-Ti)
	Reza Miresmaeili, Tarbiat Modares University, Iran
17:50-18:10	Title: Study on Selective Laser Melting of Tin Bronze
	Jinwu Kang, Tsinghua University, China
Panel Discussions	

Day 2 - July 10, 2018

Keynote Forum

09:00-09:30

Title: Unique Automotive Graphene-based Nanocomposites

Ahmed Elmarakbi, University of Sunderland, UK

09:30-10:00

Title: Biological Responses and Ecological Risks of Nanomaterials

Qixing Zhou, Nankai University, China

Sessions:

Nanotech in Life Sciences and Medicine

Advanced Nanomaterials

Nanotech for Energy and Environment

Nanoengineering and its applications

Session Chairs

Anal K. Jha, Aryabhata Knowledge University, India

Second Chair to be Announced

10:00-10:20

Title: A study of the shape-dependent antibacterial activity of different metal nanoparticles

Richard Cross, De Montfort University Leicester, UK

10:20-10:40

Title: Electronic Properties of Various B-Doped Diamond (111)//Dye Molecule Interfaces

Karin Larsson, Uppsala University, Sweden

10:40-11:30

Speaker Slot Available

11:30-11:50

Title: Nano-composites developed as smart Coatings

Anand Sawroop Khanna, IIT Bombay, India

11:50-12:10

Speaker Slot Available

12:10-12:30	Title: Study on the preparation and properties of CdS/sulfonated polyether ether ketone nanocomposite materials
	Jiang Dong, Jilin University, China
12:30-12:50	Speaker Slot Available
12:50-13:10	Title: Thermal properties of Titania Nanotubes
	Saima Ali, Aalto University, Finland
Lunch Break 13:10-14:00	
Session Chairs	
Brian Booth, Clemson University, USA	
Second Chair to be Announced	
14:00-14:20	Title: Procedures for Synthesizing Metal, Oxide and Chalcogenide Nanomaterials using natural cohorts
	Anal K. Jha, Aryabhata KnowledgeUniversity, India
14:20-14:40	Title: Detection and Concentration of human Norovirus using Concanavalin A
	Seung Jae Lee, Chonbuk National University, Rep. of Korea
14:40-15:00	Speaker Slot Available
15:00-15:20	Title: The Topographically Defined Biodegradable Nanopatterned Patches to Regulate Cell Fate and Acceleration of Bone Regenerations
	Hee Seok Yang, Dankook University, Korea
15:20-15:40	Speaker Slot Available
15:40-16:00	Title: Optical, Electrical and Photoresponse Properties of Copper doped TiO₂ Thin Film Based Photodetector
	Murat Yildirm, Selcuk University, Turkey
Coffee Break 16:00-16:10	

16:10-16:30	Title: Nanobeams of ions guided through nanocapillaries in insulating materials
	Nikolaus Stolterfoht, Helmholtz-Zentrum Berlin, Germany
16:30-16:50	Title: Low Energy Bandgap Semiconducting Materials for Energy and Environment
	Hyoyoung Lee, Sungkyunkwan University, Republic of Korea
16:50-17:10	Speaker Slot Available
17:10-17:30	Title: Direct Synthesis of Few-Layer N-Doped Graphene and Its Lithium Storage Properties
	Yinghuai Qiang, China University of Mining and Technology, China
17:30-17:50	Title: Aqueous Synthesis of Surface-Defective Rh Nanotetrahedrons with Visible-Light-Inducible Surface Plasmon Resonance for Enhanced Hydrogen Generation
	Chen-Rui Kao, National Chung Cheng University, Taiwan
17:50-18:10	Title: Label-free electrochemical immunosensor based on graphene nanocomposite for cancer diagnosis
	Mehdi Rahimi-Nasrabadi, Baqiyatallah University of Medical Sciences, Iran
Panel Discussions	
Day 3 - July 11 2018	
Sessions: Biomaterials and Healthcare	
Session Chairs	
Zhongyi Zhang, University of Portsmouth, UK	
Second Chair to be Announced	

9:00-9:20	Title: Targeted delivery of therapeutics to macrophages using functionalized dendrimeric nanoparticles: A novel two-pronged approach to facilitate removal of accumulated lipids
	Shobha Ghosh , VCU Medical Center, USA
9:20-9:40	Title: Novel tannic acid implant material for tissue regeneration and anti-cancer activity following breast cancer treatment
	Brian Booth , Clemson University, USA
9:40-10:00	Title: Bioresorbable Composite Materials for Medical Device Applications
	Mahrokh Dadsetan , Evonik Corporation, USA
10:00-10:20	Speaker Slot Available
10:20-10:40	Title: Hyaluronic acid based thermoreversible hydrogels for cartilage regeneration: capability for proliferation of mesenchymal stem cells stimulated by platelet-rich plasma in 3D culture and tissue differentiation
	Maria Helena Andrade Santana , University of Campinas, Brazil
10:40-11:00	Speaker Slot Available
Coffee Break 11:00-11:20	
11:20-11:40	Title: Versatile elastic microtubes for soft microfluidics and biomedical engineering applications
	Wang Xi , Paris Diderot University, France
11:40-12:00	Title: Development of CaCO₃ scaffolds by supercritical CO₂ processing
	Sudhir Kumar Sharma , New York University Abu Dhabi, UAE
12:00-12:20	Speaker Slot Available
12:20-12:40	Speaker Slot Available

12:40-13:00	Title: Engineering Biomolecule-Responsive Hydrogels for Medical Applications
	Hossein Hosseinkhani , Innovation Center for Advanced Technology, USA
13:00-13:20	Speaker Slot Available
Lunch Break 13:20-14:10	
Session Chairs	
Shobha Ghosh, VCU Medical Center, USA	
Second Chair to be Announced	
14:10-14:30	Title: Investigation of Nano-clay Enhanced Marine Gelcoat with Improved Degradation Resistance Performance
	Zhongyi Zhang , University of Portsmouth, UK
14:30-14:50	Title: Skin tissue engineering constructs containing structured electrospun nanofibers and bioactive glass for wound healing
	Haiyan Li , Shanghai Jiao Tong University, China
14:50-15:10	Speaker Slot Available
15:10-15:30	Title: Creation and orientation of nano-crystals by femtosecond laser for controlling second harmonic generation in silica-based glasses
	Matthieu Lancry , University of Paris-Sud, France
15:30-15:50	Speaker Slot Available
15:50-16:10	Title: Modelling the damping behavior of systems based on pomelo fruit
	Marijo Mlikota , University of Stuttgart, Germany
Coffee Break 16:10-16:20	

16:20-16:40	Title: Origin of the pinned vortex liquid in superconductors
	Lucica Miu, National Institute of Materials Physics, Romania
16:40-17:00	Speaker Slot Available
17:00-17:20	Speaker Slot Available
17:20-17:40	Title: Two nanostructured platforms: MoS₂ / MoO_x (x=2 and 3) composite and porous Si
	Salim Erfanifam, Sabanci University, Turkey
17:40-18:00	Title: Investigating The Nanomechanical Properties of Individual Protein Molecules Through Atomic Force Spectroscopy and Computer Simulation
	Piotr E. Marszalek, Duke University, USA

Panel Discussions

Note: This is tentative program only and Program Schedule is subject to change with final allotment of speaker slots

We are pleased to inform you that we have only few speaker slots left, if you are interested please contact James Michael at materials@innovinc.org



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Biomaterials**
Giving life to a world of materials

