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Scientific Program

2nd International Conference on

Smart Materials & Structures

February 29-March 02, 2016 Philadelphia, Pennsylvania, USA



OMICS International Conferences
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Scientific Program

Day 1 Feburary 29, 2016

08:30-09:30 Registrations

Independence B

09:30-09:55 Opening Ceremony

Keynote Forum

09:55-10:00	Inroduction
10:00-10:40	Title: Fibre structures for energy harvesting in wearables **Elias Siores**, University of Bolton, UK
10:40-11:20	Title: Carbon nanotube reinforced functionally graded composites **K M Liew**, City University of Hong Kong, Hong Kong

Coffee Break @ Foyer: 11:20-11:40

Smart Materials & Structural Engineering

Session Chair: Rashid Rashidzadeh, University of Windsor, Canada

Session Co-Chair: Chi-Chang Lin, National Chung Hsing University, Taiwan

Session Introduction

11:40-12:05	Title: Mitigating the bridge end bump problem: A case study of a new approach slab system with geosynthetic reinforced soil foundation **Murad Abu-Farsakh**, Louisiana State University, USA
12:05-12:30	Title: Durability of concrete incorporating crushed brick as coarse aggregate **Amir Poursaee**, Clemson University, USA
12:30-12:55	Title: Multiple tuned mass dampers for vibration control of high-rise buildings **Chi-Chang Lin**, National Chung Hsing University, Taiwan
12:55-13:20	Title: Nanosilicon as a smart waterproofing admixture in cement base material **Muhd Zaimi Abd Majid**, Universiti Teknologi Malaysia, Malaysia

Group Photo

Lunch Break @ Benjamins 13:20-14:00

14:00-14:25	Title: Smart sensors and 3D IC technology **Rashid Rashidzadeh**, University of Windsor, Canada
14:25-14:50	Title: Novel technologies and future developments of MEMS-based displays **Ji Ma**, Kent State University, USA
14:50-15:15	Title: Solvent-free fluidic organic distributed feedback lasers via soft-lithography **Ju-Hyung Kim**, Pukyong National University, Republic of Korea
15:15-15:40	Title: A new biodegradable organic dielectric substrate for planar antenna design **M Habib Ullah**, University of Malaya, Malaysia

Coffee Break @ Foyer 15:40-16:00

16:00-16:25	Title: Cu-Nb nanofilamental superconducting wires and nanostructured alloys **Bartłomiej Andrzejewski**, Polish Academy of Sciences, Poland
16:25-16:50	Title: Control of piezoelectric properties of PZT-based ferroelectric thin films on silicon through the crystal growth for mass-sensor and actuator applications **Minh Duc Nguyen**, University of Twente, The Netherlands

Panel Discussion	
Day 2 March 01, 2016	
Independence B	
Keynote Forum	
10:00-10:40	**Title: Intelligent materials and structures modelling and oprimization** **Amir H. Gandomi,** Michigan State University, USA
Smart Materials & Structures Properties	
Session Chair: Kiyohide Wada, Swansea University, UK **Session Co-Chair: Jibin Jacob,** Mar Baselios College of Engineering and Technology, India	
	Session Introduction
10:40-11:05	**Title: Partial transformation and the two-way shape recovery characteristics**
	Kiyohide Wada, Swansea University, UK
11:05-11:30	**Title: Chemistry of graphene oxide toward application for composite functional materials**
	Yuta Nishina, Okayama University, Japan
	Coffee Break @ Foyer 11:30-11:50
11:50-12:15	**Title: Conceptualization and design of a compliant universal joint by kinematic analysis of universal joint**
	Jibin Jacob, Mar Baselios College of Engineering and Technology, India
12:15-12:40	**Title: The effect of electropulsing induced gradient topographic oxide coating of Ti-Al-V alloy strips on the fibroblast adhesion and growth**
	Guoyi TANG, Tsinghua University, China
12:40-13:05	**Title: The experimental exploration of sodium chloride solution on thermal behaviour of phase change materials**
	Guolin SONG, Tsinghua University, China
	Lunch Break @ Benjamins 13:05-13:40
13:40-13:55	**Title: Graphene-based electro-optical modulators operating at telecommunication wavelength range**
	Diana E Aznakayeva, University of Manchester, UK
13:55-14:10	**Title: Systematic study of using iron oxide bearing sintering wastes for hard and soft ferrimagnetic glass ceramics preparation**
	Nehal Ali Erfan Abdelwahab, East Carolina University, USA
14:10-14:25	**Title: Lightweight concrete containing recycled plastic aggregates**
	Fahad Alqahtani, University of Birmingham, UK
14:25-14:40	**Title: Novel bio-based benzoxazines prepared from cardanol**
	Rok Ambrožič, University of Ljubljana, Slovenia
14:40-14:55	**Title: Laser coating of Ti-6Al-4V with SiC-based cermet**
	D I Adebiyi, Tshwane University of Technology, South Africa
14:55-15:10	**Title: Improved corrosion and wear resistance of laser alloyed Zn-Sn-Ti composite coatings on UNS G10150 steel in 0.5M H2SO4 solution**
	O S Fatoba, Tshwane University of Technology, South Africa

Panel Discussion	
Coffee Break @ Foyer 15:10-15:30	
Poster Presentation @ "Foyer"	
GCP-01	**Title: Ferrimagnetic glass ceramics nanoparticles produced by high-energy ball milling**
	Nehal Ali Erfan Abdelwahab, East Carolina University, USA
GCP-02	**Title: The application of SMA for an alleviating hand therapy device**
	Luke B Harmon, Ohio Northern University, USA
GCP-03	**Title: Fabrication and study the performance of solar cell made from new nanostructure phthalocyanine complex thin film**
	Asmaa Hendi, King Abdulaziz University, Saudi Arabia
GCP-04	**Title: Structural, optical and electrical characterization of Li doped PbS thin films**
	Melissa Chavez Portillo, Benemerita Universidad Autonoma de Puebla, Mexico
GCP-05	**Title: A comparison of 1D analytical model and 3D finite element analysis with experiments for a rosen-type piezoelectric transformer**
	Boukazouha, Centre de soudage et controle CSC- Algeria

Day 3 : March 02, 2016	
Independence B	
Materials Chemistry and synthesis	
Session Chair: Hai-Feng Ji, Drexel University, USA	
Session Introduction	
10:00-10:25	**Title: Growth of 2D black phosphorus film from chemical vapor deposition**
	Hai-Feng Ji, Drexel University, USA
10:25-10:50	**Title: Numerical analysis on mechanical behaviors of FG-CNT reinforced composite plates**
	Lu-Wen Zhang, Shanghai Ocean University, China
Coffee Break @ Foyer 10:50-11:10	
11:10-11:35	**Title: Effects of composition differences on the performance and properties of NiMnGa magnetic shape memory alloys**
	Gursev Pirge, Turkish Air Force Academy, Turkey
11:35-12:00	**Title: Synthesis and thermal study of multi arms nano block copolymers via combination of ring opening polymerization and thio-click chemistry**
	Hadi Al-Lami, University of Basra, Iraq
Panel Discussion	
Award Ceremony @ 12:00-12:15	
Lunch Break @ Benjamins 12:15-13:00	

Bookmark your dates

3rd International Conference on

Smart Materials & Structures

March 20-22, 2017 Orlando, USA

Website: http://smartmaterials-structures.conferenceseries.com/

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