

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 February 29, 2016

08:30-09:30 Registrations

Independence B



09:30-09:55 **Opening Ceremony**

Keynote Forum

09:55-10:00 **Introduction**

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 optimization**
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 06-08, 2017 Chicago, USAWebsite: <http://smartmaterials-structures.conferenceseries.com/>

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