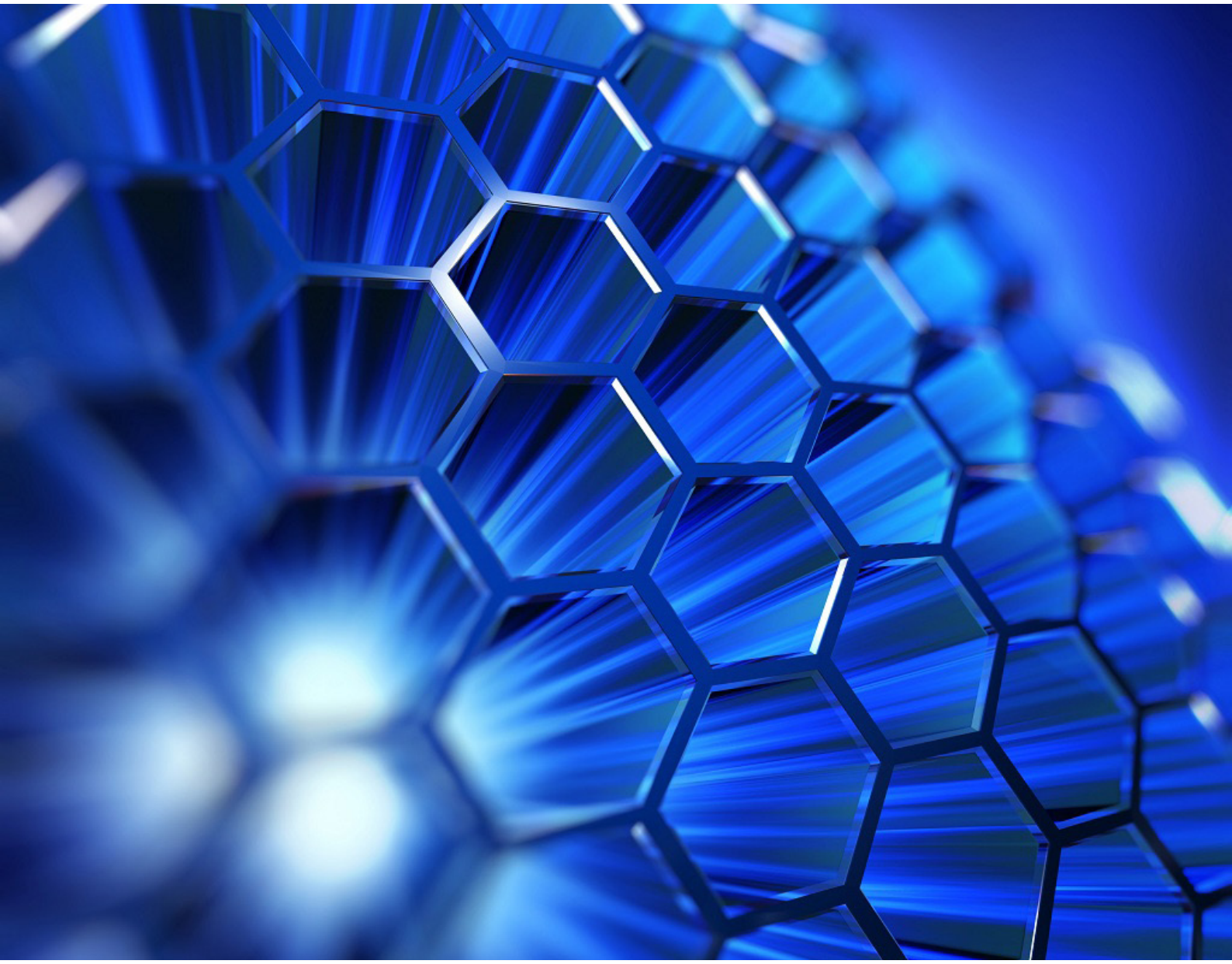
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Scientific Program

3rd International Conference on

Smart Materials & Structures

March 20-22, 2017 Orlando, USA



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Day 1 | March 20, 2017 | Monday

08:30-09:00 Registrations

Hall - B

conferenceseries.com 09:00-09:15 **Opening Ceremony**

Keynote Forum

09:15-09:20 **Introduction**

09:20-09:55 **Title: Chemical ordering phenomena in nanostructured FePt: Monte Carlo simulations**
Rafal Abdank-Kozubski, Jagiellonian University in Krakow, Poland

09:55-10:30 **Title: Development of self-healing metallic materials and composites**
Pradeep K. Rohatgi, University of Wisconsin-Milwaukee, USA

10:30-11:05 **Title: Nanocomposite materials: Trends and challenges**
Kim Meow Liew, City University of Hong Kong, Hong Kong

Group Photo

Coffee Break:11:05 -11:30 @ Foyer

11:30-12:05 **Title: Smart functional materials for energy: From laboratory to commercialization**
Elias Siores, University of Bolton, UK

Session: Smart Materials and Technologies | Smart Biomaterials

Session Chair: Elias Siores, University of Bolton, UK
Session Co-Chair: Kim Meow Liew, City University of Hong Kong, Hong Kong

Session Introduction

12:05-12:30 **Title: Supramolecular chemistry: A powerful tool to elaborate colorful multi-stimuli responsive macromolecular materials**
Patrice Woisel, University of Lille, France

12:30-12:55 **Title: The damage self-sensing response of ultra-high performance fiber-reinforced concrete in tension**
Dong Joo KIM, Sejong University, Republic of Korea

12:55-13:20 **Title: Investigation on electromechanical harvesting schemes to improve the performance of viscoelastic dielectric elastomer generators**
Liying Jiang, The University of Western Ontario, Canada

Lunch Break 13:20-14:20 @ Restaurant

14:20-14:40 **Title: Wearable electronics based on graphene-coated conductive textile fibers**
Elias Torres Alonso, University of Exeter, UK

14:40-15:00 **Title: Development of piezoelectric properties in PVDF: Effect of particle concentration and stretching variables**
Nusrat Jahan, Polytechnique Montreal, Canada

15:00-15:20 **Title: Design optimisation, control and experimental characterization of flapper mechanism with amplified piezo actuator**
Ihsan Burak Temelturk, Middle East Technical University, Turkey

Panel Discussion: 15:20-15:35

Coffee Break 15:35-15:50 @ Foyer

Session Chair: Rafal Abdank-Kozubski, Jagiellonian University in Krakow, Poland
Session Chair: Lu-Wen Zhang, Shanghai Jiao Tong University, China

15:50-16:15 **Title: Nano-biocomposites for biomedical application**
Igor Y Denisyuk, ITMO University, Russia

16:15-16:40 **Title: Advanced light sensing natural proteins that can detect light intensity**
Masahide Terazima, Kyoto University, Japan

16:40-17:05 **Title: Mechanics based design and testing of crack closing self-healing materials to carry external loads**
Nathan P Salowitz, University of Wisconsin-Milwaukee, USA

17:05-17:25 **Title: Microfluidic-enabled electrochemical studies of boron-doped ultrananocrystalline diamond microelectrodes for chronic neurochemical sensing**
An-Yi Chang, Louisiana Tech University, USA

Video Presentation

17:25-17:45 **Title: Mechanisms of mass transfer on porosity during solidification**
Peng-Sheng Wei, National Sun Yat-Sen University, Taiwan

Panel Discussions 17:45 -18:00

Day 2 | March 21, 2017 | Tuesday

Hall - B

Keynote Forum

10:00-10:35 **Title: Saddle point energies for atomic jumps and thermodynamic activation energy for ordering and diffusion in intermetallic compounds: Atomistic simulations**
Rafal Abdank-Kozubski, Jagiellonian University in Krakow, Poland

10:35-11:10 **Title: Lab-on-sensor concept, calibration, and application in evaluation of structural behaviors under environmental and loading conditions**
Genda Chen, Missouri University of Science and Technology, USA

Coffee Break 11:10-11:25 @ Foyer

Sessions: Nanomaterials and Nanotechnology | Optical and Electronic Materials

Session Chair: Elias Siores, University of Bolton, UK
Session Chair: Dinesh Thanu, Intel Corporation, USA

11:25-11:50 **Title: Modulating the surfactant structure around single wall carbon nanotubes for single chirality separations**
Kirk J Ziegler, University of Florida, USA

11:50-12:15 **Title: Fabrication of hierarchical structures using electrospinning for dry adhesive applications**
Avinash Baji, Singapore University of Technology and Design, Singapore

12:15-12:40 **Title: Enhanced surface passivation effect in porous GaN for high performance H_2 gas sensors at room temperature**
Adel Najar, United Arab Emirates University, UAE

12:40-13:05 **Title: Electrical resistivity change of SeTeAg compositions to thermal and pressure as stress**
Neeru Chaudhary, Panjab University, India

Lunch Break 13:05-14:05 @ Restaurant

Session Chair: Rafal Abdank-Kozubski, Jagiellonian University in Krakow, Poland
Session Chair: Dinesh Thanu, Intel Corporation, USA

14:05-14:30 **Title: Optical and electrical characterization of Co doped Ge-Sb-S films**
Naser Qamhieh, United Arab Emirates University, UAE

14:30-14:55 **Title: Electronic and optical properties of transition metal dichalcogenides in the presence of vacancy defects**
Michael N. Leuenberger, University of Central Florida, USA

14:55-15:15 **Title: Fabrication of low resistive and stable Li-P co-doped p-type ZnO by dual ion beam sputtering**
Pankaj Sharma, Indian Institute of Technology Indore, India

Panel Discussions 15:15-15:30

Coffee Break 15:30 - 15:45 @ Foyer

Poster Presentations 15:45-16:45

SMS 01 **Title: Concentration of 226Ra , 232Th and 40K radionuclides in natural products commonly used as cosmetics materials**
Jamilah Al-Zahrani, King Abdulaziz University, Kingdom of Saudi Arabia

SMS 02	**Title: Effect of different diisocynates on the cytotoxicity an degradability of polyurethanes based on castor oil** **Jeimmy Carolina Ibarra Chávez,** Universidad de La Sabana, Colombia
SMS 03	**Title: Structural and optical characterizations of thin organic films of thioindigo** **Najla Khusayfan,** King Abdulaziz University, Kingdom of Saudi Arabia
SMS 04	**Title: Reduction of thermal conductivity in $La_2Mo_2O_9$ by substitution of Bi dopant** **Kyung Min Ok,** Osaka University, Japan
SMS 05	**Title: Modification of structural and optical properties of PVA/PEG thin film by laser irradiation** **Mymona Mohssen Abutalib,** King Abdulaziz University, Kingdom of Saudi Arabia
SMS 06	**Title: Synthesis of low-cost polyhedral networks from vitreous carbon: process parameters and orthopaedic applications** **Viviana Guiza,** Universidad Industrial de Santander, Colombia
SMS 07	**Title: Activity size distribution of some natural radionuclides** **Zain M Al-Amoudi,** King Abdulaziz University, Kingdom of Saudi Arabia
SMS 08	**Title: Phase transformations during mechanical alloying of FeAl and FeAlSn alloys** **Zineb Hamlati,** University of Blida 1, Algeria

Best Poster Award Presentation 16:45-17:00

Day 3 | March 22, 2017 | Wednesday

Hall - B

Keynote Forum

09:00-09:35	**Title: Recent advancement of renewable smart materials** **Jaehwan Kim,** Inha University, South Korea
09:35-10:10	**Title: Bioinspired gradient surfaces: From design to functions on wettability** **Yongmei Zheng,** Beihang University, China

Coffee Break 10:10-10:25 @ Foyer

Sessions: Materials for Energy Conversion and Storage Devices | Smart Structures

Session Chair: Jaehwan Kim, Inha University, South Korea
Session Co-Chair: Yongmei Zheng, Beihang University, China

10:25-10:50	**Title: Thermal degradation of two tung oil based reactive diluents and linseed oil alkyd** **Satilmis Basan,** University of Hittite, Turkey
10:50-11:15	**Title: In situ geothermal test results for multilayer coated steel** **Ioana Csaki,** Politehnica University Bucharest, Romania
11:15-11:40	**Title: Smart nanomaterials structures** **Wolfgang Sigmund,** University of Florida, USA
11:40-12:00	**Title: a-hematite-molybdenum disulfide and polyhexylthiophene (RRPHTh)-nanodiamond (ND) electrodes for photoelectrochemical applications** **Hussein Alrobei,** University of South Florida, USA
12:00-12:20	**Title: Graphene reinforced concrete** **Dimitar Dimov,** University of Exeter, UK

Panel Discussions 12:20 - 12:40

Lunch Break12:40-13:40 @ Restaurant