Day 1    July 02, 2018

09:30-10:00  Registration Desk Opens

(Fleming’s Room 7)

conference series.com  10:00-10:25  Opening Ceremony

Keynote Forum

10:25-10:30  Introduction

10:30-11:10  Title: From molecular morphogenesis – towards autonomous material robotics
            Stoyan K. Smoukov, Queen Mary Univ. of London, UK

11:25-12:05  Title: Energy and environmental impacts of phase change materials on hot drink consumption
            Bin Wu, University of Missouri, USA

12:05-12:45  Title: Hydrogen bonded organic pigment colloidal nanocrystals
            Wolfgang Heiss, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany

Sessions: Smart Materials and Technologies | Smart Structures | Smart Materials in Industrial Application | Materials for Energy Conversion and Storage Devices | Mechanics and Behavior of Smart Materials | Nanomaterials and Nanotechnology

Session Chair: Wolfgang Heiss, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany

12:45-13:05  Title: Surface modified barium titanate for optimal dielectric properties in polymer-ceramic nanocomposite films
            Kimberly Cook Chennault, The State University of New Jersey, USA

13:50-14:10  Title: Non-fullerene acceptors: a universal answer toward addressing the "burn-in" stability challenge of solution processed organic solar cells
            Zhe Li, Cardiff University, Cardiff, Wales, UK

14:10-14:30  Title: Damping and lightweight properties of 3D metal lattices produced by additive manufacturing
            M Vedani, Politecnico di Milano, Italy

14:30-14:50  Title: Lexo the world's first naturally smart coffee/tea mug – a case of application of phase change materials in the consumer market
            Bin Wu, University of Missouri, USA

14:50-15:10  Title: Fabrication of glucose biosensors via petod nanofibers
            Pinar Camurlu, Akdeniz University, Turkey

15:10-15:30  Title: h-BN nanoparticle gradient in glass coating
            H. Erdem Çamurlu, Akdeniz University, Turkey

15:30-15:50  Title: Adaptation of a universal testing machine to characterise the material response of multi-layered piezoelectric actuators under fully coupled loading scenarios
            Hannes Grünbichler, University of Applied Sciences Technikum Wien, Austria

15:50-16:10  Title: Conductive silicone rubber through carbon nanotubes, and its smart application
            Noa Lachman, Tel Aviv University, Israel

16:25-16:40  YRF: Nanoscale molecular adhesion layers for silicone bonding
            Stefan Urth Nielsen, Aarhus University and RadiSurf ApS, Denmark

Networking and Refreshments Break 16:10-16:25 @ Foyer
YRF: Effect of pressure and time on ScCo$_2$-assisted incorporation of thymol into ldpe-based nanocomposites for active food packaging
Adrián Rojas, University of Santiago de Chile, Chile

YRF: A study on the development of molybdenum and silicide based coatings on Nb based structural materials for advanced high temperature reactor
Megha Tyagi, Homi Bhabha National Institute, India

Panel Discussion

Day 2  July 03, 2018
(Fleming´s Room 7)

Keynote Forum

10:30-11:10
Title: Modeling and analysis of piezoelectric energy harvesting and its extension to metamaterial-based design
Byeng D. Youn, Seoul National University, South Korea

Networking and Refreshments Break 11:10-11:25 @ Foyer

11:25-12:05
Title: Optically transparent p-type oxide and oxychalcogenide semiconductors
Hao Gong, National University of Singapore, Singapore

Sessions: Optical and Electronic Materials | Future of Materials | Smart Biomaterials | Material Science and Engineering | Nanomaterials and Nanotechnology | Emerging Materials | Smart Biomaterials | Physics and Chemistry of Materials
Session Chair: Hao Gong, National University of Singapore, Singapore

Session Introduction

12:05-12:25
Title: Oxidative desulfurization of organosulfur compounds in a model mixture of scrap tire pyrolysis oil using the ionic liquid [BMIM]BF$_4$ on ZSM-5 zeolite
Veronica García Rojas, Universidad Industrial de Santander, Bucaramanga, Colombia

12:25-12:45
Title: pH responsive lipids for targeted delivery of antibiotics
Thirumala Govender, University of KwaZulu-Natal, South Africa

12:45-13:05
Title: Algorithm based on the thomson problem for determination of equilibrium structures of metal nanoclusters
Jhon Fredy Pérez Torres, Universidad Industrial de Santander, Colombia

Lunch Break 13:05-13:50 @ Flemings Restaurant

13:50-14:10
Title: Hysteresis behavior of smart eccentric braced steel frames with shape memory alloy
Joo-Woo Kim, Semyung University, Korea

14:10-14:30
Title : A Novel smart hybrid-trefftz finite element for the analysis of smart laminated composite plates
M. C. Ray, Indian Institute of Technology, India

14:30-14:50
Title : In vivo tissue pH probing using a combination of mr imaging and smart contrast agent for cancer early detection and post chemo and radiotherapy
Mouffouk Fouzi, Kuwait University, Kuwait

14:50-15:05
YRF: Electrospun nanofibers releasing salinomycin for glioblastoma treatment
Mohammad Norouzi, University of Manitoba, Winnipeg, MB, Canada

YRF: Furan-melamine-formaldehyde polymers – toward smart materials future applications
Katharina Urdl, Kompetenzzentrum Holz GmbH, Austria

YRF : High-performance smart biomaterial containing nanoparticles and ophthalmic application
Min-Jae Lee, Daegu Catholic University, South Korea
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<th>SMC 01</th>
<th>Title: Vibration of fully functionally graded cnt reinforced graphite/epoxy laminates</th>
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<td>Shih-Yao Kuo, Aletheia University, Taiwan</td>
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<td>SMC 02</td>
<td>Title: Gradually porous bio ceramic scaffolds using ceramic/camphene-based three-</td>
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<td>dimensional co-extrusion</td>
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<td>Min-Kyung Ahn, Korea University, Korea</td>
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<td>SMC 03</td>
<td>Title: PVA/Chito-oligosaccharide nanofiber mat containing pomegranate peel crude</td>
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<td>extract for antibacterial purpose</td>
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<td>Neeranut Kuanchertchoo, Ramkhamhaeng University, Bangkok, Thailand</td>
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<td>SMC 04</td>
<td>Title: Influence of Zn/Mo molar ratio on the phase composition, morphology, and</td>
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<td>photocatalytic activity of zinc molybdates prepared by hydrothermal method</td>
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<td>Chung-Shin Lu, National Taichung University of Science and Technology, Taiwan</td>
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<tr>
<td>SMC 05</td>
<td>Title: Synthesis of one-dimensional SnO\textsubscript{2} lines by electrohydrodynamic</td>
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<td>jet printing for NO gas sensor</td>
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<td>Chang-Yeoul Kim, Korea Institute of Ceramic Engineering and Technology, Korea</td>
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Panel Discussion and Certificate Distribution