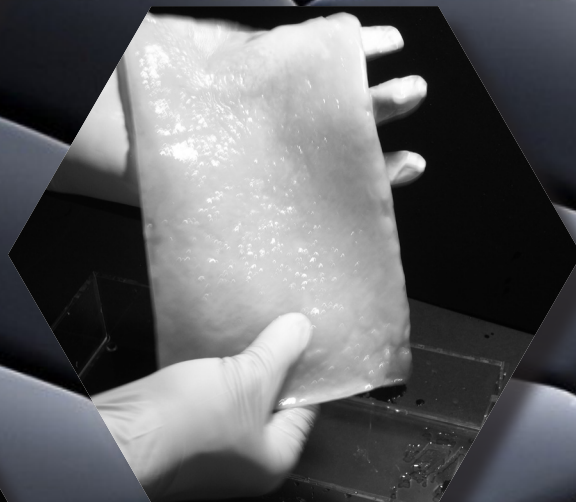


## Scientific Program

International Conference on

# Smart Materials & Structures

June 15 -17, 2015 Las Vegas, USA



**OMICS International Conferences**

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e-mail: [smartmaterials@omicsgroup.com](mailto:smartmaterials@omicsgroup.com); [smartmaterials@conferenceseries.net](mailto:smartmaterials@conferenceseries.net)

08:30-09:30 Registrations

## Flamingo 2



10:00-10:25

## Opening Ceremony

## Keynote Forum

10:25-10:30 Introduction

10:30-11:15 Elias Siores

Director of Research &amp; Innovation, Bolton University, UK

Networking &amp; Refreshments Break 11:15-11:30 @ Atrium

11:30-12:15 Mogens Brondsted Nielsen

University of Copenhagen, Denmark

Track 1: Smart Material Science and Technology

Track 4: Smart Materials in Aviation and Defense

Track 7: Innovations in Physical and Chemical Properties of Smart Materials

Session Chair: A S Khanna, IIT Bombay, India

## Session Introduction

12:15-12:45

Title: Synthesis of (111) textured lead-free piezoelectric ceramics through template grain growth process

Pelin Berik, Virginia Tech, USA

12:45-13:15

Title: Photogated motility in smart actuators with dual response

Lidong Zhang, New York University Abu Dhabi, United Arab Emirates

Lunch Break 13:15-14:00 @ Atrium

14:00-14:30

Title: Inorganic-organic hybrid based Smart Coatings

A S Khanna, IIT Bombay, India

## Young Researchers Forum

14:30-14:45

Title: The effect of SMA-training on variations of production process parameters

Dennis Otibar, Ruhr-University Bochum, Germany

14:45-15:00

Title: Temperature dependent electrical fatigue on bulk piezoceramics

Y Mohan, Indian Institute of Technology Madras, India

15:00-15:15

Title: Design of a locking device for an SMA driven feed axis

Jan Pollmann, Ruhr-University Bochum, Germany

15:15-15:30

Title: Vibration energy harvesting using pzt wafers

Anand Sampath, Indian Institute of Technology Madras, India

Networking &amp; Refreshments Break 15:30-15:50 @ Atrium

15:50-16:05

Title: Activation strategies and their impact on the lifetime of SMA

Antonia Bette, Ruhr-University Bochum, Germany

16:05-16:20

Title: Experimental characterization of rate dependent non-linear behavior on macro-fiber composites

S Sreenivasa Prasath, Indian Institute of Technology Madras, India

16:20-16:50

Title: Application of electrical discharge coating to TiNi alloys surface treatment

Shih-Fu, Ou, National Kaohsiung University of applied sciences, Taiwan

Cocktails Sponsored by Journal of Material Sciences &amp; Engineering 17:45-19:00 @ Atrium



Day 2 June 16, 2015	
Flamingo 2	
Track 2: Nano Materials and Sensors Track 6: Synthesis of Smart Materials	
Session Chair: Mogens Brøndsted Nielsen, University of Copenhagen, Denmark	
Session Introduction	
10:00-10:30	Title: From light-controlled molecular electronics devices to solar energy storage materials Mogens Brøndsted Nielsen, University of Copenhagen, Denmark
10:30-11:00	Title: Electrospun quaternized polyvinyl alcohol nanofibers with core-shell structure and their composite in alkaline fuel cell application Shingjiang Jessie Lue, Chang Gung University, Taiwan
Networking & Refreshments Break 11:00-11:15 @ Atrium	
11:15-11:45	Title: A nanofibrous hydrogel for bone tissue engineering Umadevi Kandalam, Nova Southeastern University, USA
11:45-12:15	Title: Sol-gel derived nanomaterials for designing fiber optic gas sensors Shiquan Tao, West Texas A&M University, United States
12:15-12:45	Title: Bioinspired multi-gradient surface materials for water-collection/repellency Yongmei Zheng, Beihang University, China
12:45-13:15	Title: The influence of structural parameters upon static control performance of a flextensional transducer Jacek Przybylski, Czestochowa University of Technology, Poland
Lunch Break 13:15-14:00 @ Atrium	
14:15-14:30	Title: Observation of shape restoration effect in core-shell nanowire structures Mikk Antsov, University of Tartu, Estonia
14:30-14:45	Title: Dynamic fracture toughness of TAC/CNTS/SIC CMCS prepared by spark plasma sintering Qiaoyun Xie, University of Pittsburgh, USA
14:45-15:15	Title: A contactless capacitive biosensor for muscle activity measurement Md Mamun Bin Ibne, University Kebangsaan Malaysia, Malaysia
Networking & Refreshments Break 15:15-15:30 @ Atrium	
15:15-16:30	Poster Presentations @ Atrium
PSM-01	Title: Pigment complexes for the construction of photo-electrochemical devices Reza Razeghifard, Nova Southeastern University, USA
PSM-02	Title: Lubricating properties of nanoparticles and ionic liquid mixture R Lõhmus, University of Tartu, Estonia.
PSM-03	Title: Removability of mineral trioxide aggregate and retrievability for root canal for retreatment Deog-Gyu Seo, Seoul National University School of Dentistry, Republic of Korea
PSM-04	Title: Patterned MoS <sub>2</sub> films on elastomeric substrate for stretchable electronics Sang-Woo Kang, Korea Research institute of Standards Science, Republic of Korea
PSM-05	Title: Plasma treatment on carbon nanowalls grown by microwave PECVD Won Seok Choi, Hanbat National University, Republic of Korea
PSM-06	Title: Fabrication of self-cleaning coating on glass substrate Yeun-Ho Joung, Hanbat National University, Republic of Korea
PSM-07	Title: Characteristics of variable capacitors using dual piezoelectric actuation bridges of in-plane polarized lead zirconate titanate films Feel-soon Kang, Hanbat National University, Republic of Korea
PSM-08	Title: Dielectric properties of Ba(Zr <sub>0.4</sub> Ti <sub>0.6</sub> )O <sub>3</sub> thin films deposited on MgO and LaAlO <sub>3</sub> single crystal substrates Hyun Suk Hwang, Seoil University, Republic of Korea
PSM-09	Title: The adaptive properties of a shape memory composite Pedro Cortes, Youngstown State University, USA
PSM-10	Title: Effect of interfacial layer on the performance of Type-II InAs/GaSbsuperlattices infrared photodetectors Jun Oh Kim, Korea Research Institute of Standards and Science, Korea, Republic of
Cocktails Sponsored by Journal of Biotechnology & Biomaterials 17:30-19:00 @ Atrium	

Day-3 Cont...

Day 3 June 17, 2015

## Flamingo 2

Track 3: Smartness of Civil Engineering and Intelligent Structures

Track 5: Smart and Biological Materials in Humans

Session Chair: K N Hui, Pusan National University, Republic of Korea

### Session Introduction

10:00-10:30	Title: Bimetallic Pd-Pt/graphene aerogel on nickel foam as binder-free anodic electrode for electro-oxidation of ethanol K N Hui, Pusan National University, Republic of Korea
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10:30-11:00	Title: Immunomagnetic separation combined with enzyme linked immunosorbent assay for quick detection of Salmonella in raw eggs Shiquan Tao, West Texas A&M University, United States
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### Networking & Refreshments Break 11:00-11:15 @ Atrium

11:15-11:45	Title: Characterization and modification of clay materials, solid-phase reactions of organic molecules intercalated in clay minerals and their utilization in contaminant attenuation Theresa O Egbuchunam, Federal University of Petroleum Resources, Nigeria
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11:45-12:15	Title: Smart functional adsorbents: a harmonization approach Yuri Aristov, Boreskov Institute of Catalysis, Russia
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12:15-12:45	Title: Seismic Applications of Shape Memory Alloys in Steel Buildings: a Review Shahria Alam, The University of British Columbia, Canada
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### Lunch Break 12:45-13:15 @ Atrium

### Panel Discussions

### Certificate Felicitation & Closing Ceremony

**Bookmark your dates**

2<sup>nd</sup> International Conference on

# Smart Materials & Structures

June 16 -18, 2016 Berlin, Germany

## Nanotechnology congress & Expo

August 11-13, 2015 Frankfurt, Germany

4<sup>th</sup> International Conference and Exhibition on

## Materials Science & Engineering

September 14-16, 2015 Florida, USA

5<sup>th</sup> International Conference on

## Nanotek & Expo

November 16-18, 2015 San Antonio, USA



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