Joint Event on

2nd Edition of
Graphene & Semiconductors | Diamond, Graphite & Carbon Materials Conference

&
6th Edition of
Smart Materials & Structures Conference

April 16-17, 2018 Las Vegas, Nevada, USA
### Day 1  
**April 16, 2018**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08:00-08:30</td>
<td>Registrations</td>
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<tr>
<td>08:30-08:55</td>
<td>Opening Ceremony</td>
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<tr>
<td><strong>Keynote Forum</strong></td>
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</table>
| 09:00-09:45| Title: Multilayer nanocrystalline diamond for optical sensing and electronics display application  
Adam H Khan, AKHAN Semiconductor, USA |
| 09:45-10:30| Title: Nanoscale tribochemical reaction drive super lubricity at macroscale with 2D materials-nanoparticles ensembles  
Anirudha V Sumant, Argonne National Laboratory, USA |
| 10:50-11:35| Title: Graphene on Diamond (GOD)  
James C Sung, Synthetic Element Six (SES), Taiwan |
| **Sessions**                                                                 |
| **Panel Discussion 11:35-11:45**                                                                 |
| **Group Photo**                                                                 |
| **Lunch Break 13:15-14:15 @ Hawaiian Gardens**                                                                 |
| 14:15-14:45| Title: Generation of molecular species on graphene-based materials and their catalytic applications  
Sungjin Park, Inha University, Republic of Korea |
| 14:45-15:15| Title: Transition metal oxide thin films-applications  
K V Madhuri, VFSTR University, India |
| 15:15-15:45| Title: Molecular probe characterization of microporous carbons  
Larry Christner, LGC Consultants LLC, USA |
| 15:45-16:15| Title: Terahertz light emission and lasing in current-injection graphene-channel transistors  
Taichii Otsuji, Tohoku University, Japan |
| 16:15-16:45| Title: New generation nano copper/carbon composite and applications  
Kun Lian, Xi’an Jiaotong University, China |
| **Networking & Refreshment Break 16:45-17:05 @ Foyer**                                                                 |
| 17:00-18:00| Title: Wet-spun carbon nanotubes for soft robotic applications  
Bijan Nasr Nasrabadi, Deakin University, Australia |
| 18:00-18:15| Title: Crumpled graphene-Au nanoparticle hybrid photodetector with enhanced stretchability and photoresponsivity  
Pilgyu Kang, George Mason University, USA |

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**Video Presentation**

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| 18:15-18:30| Title: Crumpled graphene-Au nanoparticle hybrid photodetector with enhanced stretchability and photoresponsivity  
Pilgyu Kang, George Mason University, USA |

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**Panel Discussion & Closing 18:30-18:40**
### Keynote Forum

**09:00-09:45**  
**Title:** Large single crystal graphene manufacture  
**James C Sung,** Synthetic Element Six (SES), Taiwan

**09:45-10:30**  
**Title:** Odd-frequency superconducting order parameter in boron-doped nanocrystalline diamond films  
**Somnath Bhattacharyya,** University of the Witwatersrand, South Africa

### Group photo & Networking & Refreshment Break 10:30-10:50 @ Foyer

**10:50-11:35**  
**Title:** Stiction assisted fabrication of single crystal silicon nanomembranes for MEMS applications  
**Gokul Gopalakrishnan,** University of Wisconsin, USA

### Panel Discussion 11:35-11:45

**Sessions:**  
Nanomaterials and Nanotechnology | Applications of Graphene in Energy and Biomedicals  
Semiconductor Materials and Nanostructures | Electrochemistry of Diamond and Nano Carbon Materials | Materials for Energy Conversion and Storage Devices

**Session Chair:** Richard A Clark, Morgan Advanced Materials, USA

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<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
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<tr>
<td>11:45</td>
<td>Carbon nanotubes used as a thermal stabilizer in polymers</td>
<td>Yeong-Tarng Shieh</td>
<td>National University of Kaohsiung, Taiwan</td>
</tr>
<tr>
<td>12:15</td>
<td>Synthesis of nanocrystalline diamond for applications in high temperature electronics</td>
<td>Rahul Ramamurti</td>
<td>Ultra Clean Technology, Canada</td>
</tr>
<tr>
<td>12:45</td>
<td>Focus on optimization of colorimetric assay for the detection of hydrogen peroxide using a green synthesis pathway for silver capped nanoparticles</td>
<td>Hamid Idriss</td>
<td>University of Sharjah, UAE</td>
</tr>
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</table>

### Lunch Break 13:15-14:15 @ Hawaiian Gardens

**14:15-14:45**  
**Title:** Electrical conductivity of a copper-metallic carbon nanotube composite  
**Henry C de Groh,** NASA Glenn Research Center, USA

**14:45-15:15**  
**Title:** Electrochemical synthesis of photoactive carbon-carbide structure on silicon  
**Eimutis Juzeliunas,** Klaipeda University, Lithuania

**15:15-15:45**  
**Title:** Graphene and carbon nanostructures/magnesium hybrid materials for hydrogen storage  
**Giorgio Speranza,** Fondazione Bruno Kessler, Italy

**15:45-16:15**  
**Title:** Surface modified barium titanate for optimal dielectric properties in polymer-ceramic nanocomposite films  
**Kimberly Cook-Chennault,** Rutgers university, USA

### Panel Discussion 16:15-16:25

### Networking & Refreshment Break 16:25-16:45 @ Foyer

### Posters Presentation on Day 2 (16:45-18:00)

**Poster Judge:** Mineo Hiramatsu, Meijo University, Japan

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<th>Poster ID</th>
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<tr>
<td>GDCSM18-01</td>
<td>Smart nano composite paint sensors for infrared detecting and energy harvesting</td>
<td>Ashok K Batra</td>
<td>Alabama A&amp;M University, USA</td>
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<tr>
<td>GDCSM18-02</td>
<td>Ultra-High Molecular Weight Polyethylene (UHMWPE) material for lithium battery separators</td>
<td>Xinwei Wang</td>
<td>Shanghai Research Institute of Chemical Industry, China</td>
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<tr>
<td>GDCSM18-03</td>
<td>Poly(α-methylene-γ-butyrolactone) as potential smart polymeric material for healthcare applications</td>
<td>Pascal Binda</td>
<td>Savannah State University, USA</td>
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<tr>
<td>GDCSM18-04</td>
<td>A comparison of graphene and graphene oxide fibers in antimicrobial applications</td>
<td>Rupy Kaur Matharu</td>
<td>University College London, United Kingdom</td>
</tr>
<tr>
<td>GDCSM18-05</td>
<td>Preparation and characterization of poly (ether-block-amide)/polyethylene glycol composite films for packaging application</td>
<td>Sarinthip Thanakkasaranee</td>
<td>Yonsei University, South Korea</td>
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### Panel Discussion 16:45

**Award Ceremony**

**Thanks Giving & Closing Ceremony**