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2nd Edition of
Graphene & Semiconductors | Diamond, Graphite & Carbon Materials Conference
6th Edition of
Smart materials & Structures Conference

April 16-17, 2018 Las Vegas, USA

Tentative Program

Day 1 April 16, 2018

08:00-08:30	**Registrations**
08:30-08:55	**Opening Ceremony**
Keynote Forum	
09:00-9:45	**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 superlubricity at macroscale with 2D materials-nanoparticles ensembles
	Anirudha V Sumant, Argonne National Laboratory , USA
Group photo | Coffee Break 10:30-10:50	
10:50-11:35	**Title:** Graphene on Diamond (GOD)
	James C Sung, Synthetic Element Six (SES) , Taiwan
Panel Discussion 11:35-11:45	
Speaker Session	
Graphene and other 2D materials | Smart Materials and Technologies Carbon Materials in Energy |Novel Hybrid carbon materials Graphene modification and functionalization | Applications of carbon nanotubes	
Chair	**Richard A Clark,** Morgan Advanced Materials, USA
11:45-12:15	**Title:** Stretchable and Hydrophobic Electrochromic Devices Using Wrinkled Graphene and PEDOT:PSS
	Hossein Sojoudi, University of Toledo, USA
12:15-12:45	**Title:** Molecular Probe Characterization of Microporous Carbons
	Larry Christner, LGC Consultants LLC, USA
12:45-13:15	**Title:** Synthesis and application of vertical graphene network
	Mineo Hiramatsu, Meijo University, Japan
Lunch Break 13:15-14:15	
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:** One step in the right direction: manufacture of graphene by electrochemical exfoliation and simultaneous functionalization with metal nanostructures
	Richard A Clark, Morgan Advanced Materials, USA
15:45-16:15	**Title:** Terahertz light emission and lasing in current-injection Graphene-channel transistors
	Taiichi Otsuji, Tohoku University, Japan
16:15-16:45	**Title:** New generation nano Copper /Carbon composite and applications
	Kun Lian, Xi'an Jiaotong University, China
Coffee Break 16:45-17:05	
Panel Discussion 17:05-17:15	
Young Research Forum	

17:15-17:30	**Title:** Quantitative detection of Rhodamine 6G (R6G) by Surface-Enhanced Raman Spectroscopy (SERS) using MoS2/graphene van der Waal (vdW) heterostructure substrate
	Mohammed Alamri, The University of Kansas, USA
17:30-17:45	**Title:** Graphene radicals: manipulations and applications
	Zahra Komeily Nia, Deakin University, Australia
17:45-18:00	**Title:** Crystal growth of 2D-layered semiconductors ,MoS2 and GaSe For the development of novel photonic and electronic devices
	Takahumi Ito, Tohoku University, Japan
18:00-18:15	**Title:** Wet-spun carbon nanotubes for soft robotic applications
	Bijan Nasri Nasrabadi, Deakin University, Australia
Video Presentation	
18:15-12:18:30	**Title:** Crumpled graphene-Au nanoparticle hybrid photodetector with enhanced stretchabiliy and photoresponsivity
	Pilgyu Kang,University of Illinois at Urbana-Champaign, USA
Panel Discussion & Closing 18:15-18:30	
Keynote Forum	
Day 2 April 17, 2018	
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 Nano crystalline Diamond Films
	Somnath Bhattacharyya, University of the Witwatersrand, South Africa
Group photo | Coffee Break 10:30-10:50	
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	
Speaker Session	
Nano materials 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	
Chair	**Richard A Clark,** Morgan Advanced Materials, USA
11:45-12:15	**Title:** Carbon nanotubes used as a thermal stabilizer in polymers
	Yeong-Tarng Shieh, National University of Kaohsiung, Taiwan
12:15-12:45	**Title:** Synthesis of Nanocrystalline Diamond for Applications in High Temperature Electronics
	Rahul Ramamurti, Ultra Clean Technology, Canada
12:45-13:15	**Title:** Focus on optimization of colorimetric assay for the detection of hydrogen peroxide using a green synthesis pathway for silver capped nanoparticles
	Hamid Idriss, University of Sharjah,UAE
Lunch Break 13:15-14:15	
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, KlaipėdaUniversity, 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, Rutger's university,USA
Panel Discussion 16:15-16:25	
Coffee Break 16:25-16:55	
Posters Presentation on Day 2 (16:55-18:00)	
GSDCSMS18-01	**Title:** A Comparison of Graphene and Graphene Oxide Fibres in Antimicrobial Applications
	Rupy Kaur Matharu, University College London, United Kingdom
GSDCSMS18-02	**Title:** Smart Nanocomposite Paint Sensors for Infrared Detecting and Energy Harvesting
	Ashok K. Batra, Alabama A&M University,USA
GSDCSMS18-03	**Title:** Ultra-High Molecular Weight Polyethylene (UHMWPE) Material for Lithium Battery Separators
	Xinwei Wang, Shanghai Research Institue of Chemical Industry,China
GSDCSMS18-04	**Title:** Preparation and Characterization of Poly(ether-block-amide)/Polyethylene glycol Composite Films for Packaging Application
	Sarinthip Thanakkasaranee, Yonsei University,South Korea
GSDCSMS18-04	**Title:** Poly(α-methylene-γ-butyrolactone) as Potential Smart Polymeric Material for Healthcare Applications
	Pascal Binda ,Savannah State University,USA
Award Ceremony	
****Note: Tentative Program has been designed with the projected Speakers Names and Titles. Dates and timings in this Program are subject to change**	