Scientific Program

Joint Event on

 2^{nd} Edition of

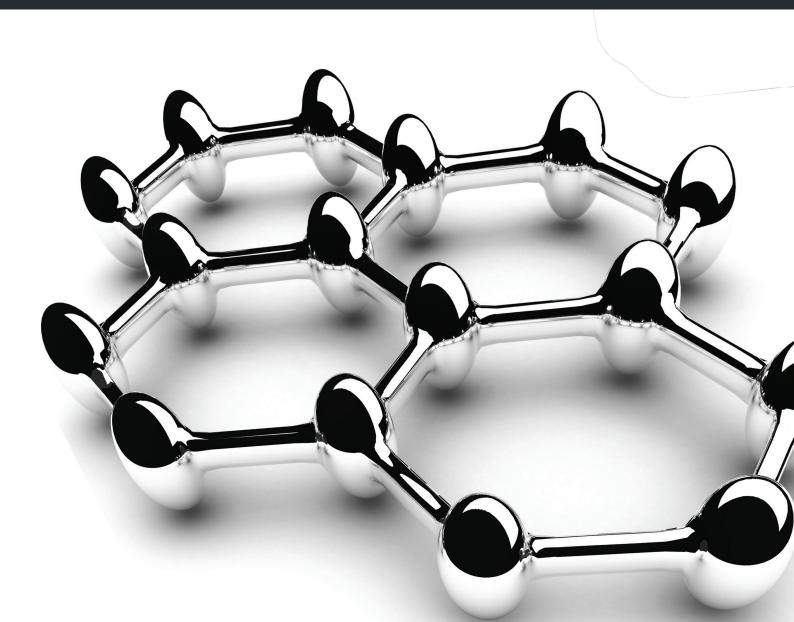
6th Edition of

GRAPHENE & SEMICONDUCTORS | DIAMOND, GRAPHITE & Carbon Materials Conference

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Smart Materials & Structures Conference

April 16-17, 2018 Las Vegas, Nevada, USA



Day 1 April 16, 2018

08:00-08:30 Registrations

Conference Hall: Oasis C

08:30-08:55 Opening Ceremony		
Keynote Forum		
09:00-09:45	Title: Multilayer nanocrystalline diamond for optical sensing and electronics display	
	application	
09:45-10:30	Adam H Khan, AKHAN Semiconductor, USA Title: Nanoscale tribochemical reaction drive superlubricity at macroscale with 2D	
07.45-10.50	materials-nanoparticles ensembles	
	Anirudha V Sumant, Argonne National Laboratory, USA	
	Networking & Refreshment Break 10:30-10:50 @ Foyer	
10:50-11:35	Title: Graphene on Diamond (GOD)	
	James C Sung, Synthetic Element Six (SES), Taiwan	
	Group Photo	
c .	Panel Discussion 11:35-11:45	
Sessions: 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		
Session Chair: R	tichard A Clark, Morgan Advanced Materials, USA	
	Session Introduction	
11:45-12:15	Title: One step in the right direction: Manufacture of graphene by electrochemical exfoliation and simultaneous functionalization with metal nanostructures	
11.45-12.15	Richard A Clark, Morgan Advanced Materials, USA	
10 15 10 45	Title: Stretchable and hydrophobic electrochromic devices using wrinkled graphene and PEDOT:PSS	
12:15-12:45	Hossein Sojoudi, University of Toledo, USA	
12:45-13:15	Title: Synthesis and application of vertical graphene network	
12.45-10.15	Mineo Hiramatsu, Meijo University, Japan	
	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	
	Title: Transition metal oxide thin films-applications	
14:45-15:15	K V Madhuri, VFSTR University, India	
	Title: Molecular probe characterization of microporous carbons	
15:15-15:45	Larry Christner, LGC Consultants LLC, USA	
15:45-16:15	Title: Terahertz light emission and lasing in current-injection graphene-channel transistors	
15:45-10:15	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	
	Networking & Refreshment Break 16:45-17:05 @ Foyer Panel Discussion 17:05-17:15	
	Young Research Forum	
	Title: Quantitative detection of Rhodamine 6G (R6G) by Surface-Enhanced Raman Spectroscopy (SERS)	
17:15-17:30	using MoS ₂ /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 Title: Crystal growth of 2D-layered semiconductors, MoS, and GaSe For the development of novel	
17:45-18:00	photonic and electronic devices	
	Takahumi Ito, Tohoku University, Japan	
18:00-18:15	Title: Wet-spun carbon nanotubes for soft robotic applications	
10.00-10.15	Bijan Nasri Nasrabadi, Deakin University, Australia	
	Video Presentation	
18:15-18:30	Title: Crumpled graphene-Au nanoparticle hybrid photodetector with enhanced stretchabiliy and photoresponsivity	
10:15-10:50	Pilgyu Kang, George Mason University, USA	
	Panel Discussion & Closing 18:30-18:40	

	Day 2 April 17, 2018	
	Conference Hall: Oasis C	
	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 nano	
	crystalline 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		
	ichard A Clark, Morgan Advanced Materials, USA	
	Session Introduction	
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	
12:13-12:45	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 @ 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	
15:15-15:45	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: M	ineo Hiramatsu, Meijo University, Japan	
GDCSM18-01	Title: Smart nano composite paint sensors for infrared detecting and energy harvesting	
GDC3M18-01	Ashok K Batra, Alabama A&M University, USA	
GDCSM18-02	Title: Ultra-High Molecular Weight Polyethylene (UHMWPE) material for lithium battery separators	
	Xinwei Wang, Shanghai Research Institue of Chemical Industry, China	
	Title: Poly(α -methylene- γ -butyrolactone) as potential smart polymeric material for healthcare	
GDCSM18-03	applications Pascal Binda, Savannah State University, USA	
GDCSM18-04	Title: A comparison of graphene and graphene oxide fibers in antimicrobial applications	
	Rupy Kaur Matharu, University College London, United Kingdom	
	Title: Preparation and characterization of poly (ether-block-amide)/polyethylene glycol composite films	
GDCSM18-05	for packaging application	
	Sarinthip Thanakkasaranee, Yonsei University, South Korea	
	Panel Discussion	
Award Ceremony		
	Thanks Giving & Closing Ceremony	