

Scientific Program

Joint Event

3rd International Conference and Expo on

Graphene, Advanced 2D Materials & Semiconductors

3rd International Conference and Expo on

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Diamond, Graphite & Carbon Materials

March 28-29, 2019 | Orlando, USA



CONFERENCE SERIES

47 Churchfield Road

W3 6AY, London, UK

For Queries: +44-800-014-8923

Day 1 | March 28, 2019

Conference Hall: International B

08:00-09:00	Registrations
09:00-09:20	Opening Ceremony
09:20-09:30	Introduction
	Keynote Forum
09:30-10:15	Title: Nanocrystalline diamond based protective optical coatings for infrared windows Adam Khan , AKHAN Semiconductor, Inc., USA
Group Photo	Networking & Refreshments Break 10:15-10:45
10:45-11:30	Title: Examination and measurement of the corrosion resistance rate of copper sulfide ore on Nano high entropy alloy/Graphene composite coating Mohammadreza Heydartaemeh , NanoMineTech Co., Iran
11:30-12:15	Title: Nanostructured carbons: Materials for the advanced future energy Ram K. Gupta , Pittsburg State University, USA
	Networking 12:15-13:00
	Lunch Break 13:00-14:00
Sessions	Advanced 2D Materials Semiconductor materials and Nanostructures Graphene and other 2D materials Graphene modification and functionalization Carbon Materials in Energy Applications of Synthetic Graphite and Natural Graphite Chair: Richard A Clark , Morgan Advanced Materials, USA
14:00-14:30	Title: Giant multiferroic effects in topological GeTe/Sb ₂ Te ₃ superlattices Junji Tominaga , National Institute of Advanced Industrial Science and Technology, Japan
14:30-15:00	Title: Boron Nitride NanoSheets from large and highly-crystallised h-BN nanocrystals synthesized by a polymer route combined with a sintering process Toury Berangere , University of Lyon, France
15:00-15:30	Title: Mechanical properties of 2D Materials: The Role of interfaces and structure-property relationship Qing Tu , Northwestern University, USA
	Networking & Refreshments Break 15:30-16:00

16:00-16:30	Title: A review on the mechanism of pigment dispersion and its application to liquid-phase exfoliation and dispersion of graphene Christiana Agbo , Cape Coast Technical University, Ghana
16:30-17:00	Title: How judicious selection and application of d-block metal ions in electrochemical exfoliation of graphite can help transition graphene production from the laboratory to commercial use in energy storage Richard A. Clark , Morgan Advanced Materials, USA
17:00-17:30	Title: Molecular probe characterization of microporous carbons Larry G. Christner , LGC Consultants LLC, USA
Day 2 March 29, 2019	
Keynote Forum	
Conference Hall: International B	
10:00-10:30	Registrations
10:30-11:15	Title: Towards developing energy efficient systems based on novel carbon materials Anirudha V Sumant , Argonne National Laboratory, USA
Group photo	Networking & Refreshments Break 11:15-11:45
11:45-12:30	Title: Quantum device prospects of superconducting diamond films Somnath Bhattacharyya , University of the Witwatersrand, Johannesburg, South Africa
Networking and Panel Discussion 12:30-13:00	
Lunch Break 13:00-14:00	
Sessions	Large scale Graphene production and characterization Applications of graphene in Energy and Biomedicals Graphene modification and functionalization Graphene Synthesis Carbon nanotubes and Graphene Chair: Ram K. Gupta , Pittsburg State University, USA
14:00-14:30	Title: Application of carbon and metal based catalysts for the utilization of carbon dioxide and bio-waste to get renewable energy Manawadevi Y Udugala-Ganehenege , University of Peradeniya, Sri Lanka
14:30-15:00	Title: Application of carbon nanotubes to protect plasma torch electrodes George Paskalov , Plasma Microsystem LLC, USA

15:00-15:30	Title: Electrochemical synthesis of photoactive carbon-carbide structures on silicon
	Eimutis Juzeliūnas , Centre for Physical Sciences and Technology, Lithuania
Networking & Refreshment Break 15:30-16:00	
16:00-16:30	Title: Ferrocene thermal decomposition during phenolic resins graphitization
	Carmen Greice Renda , Federal University of São Carlos, Brazil
Networking and Panel Discussion 16:30-17:00	
Poster Presentations 17:00-18:00	
P 01	Title: Characterization of graphene oxide/nafion colloids by spectrophotometry for desalination applications
	Oscar Andrés Jaramillo Quintero , Universidad Nacional Autónoma de México, Mexico
P 02	Title: Fabrication of octahedron-like BiOI/MOF composite photocatalysts with enhanced photocatalytic hydrogen evolution from water splitting
	Jerry Wu , Feng Chia University, Taiwan
P 03	Title: Application of carbon nanotubes to protect plasma torch electrodes
	Alexander Ustimenko , Institute of Experimental and Theoretical Physics, Khazakhstan
P 04	Title: The vanadium carbide deposition by thermodiffusion process for CVD diamond applications
	Djoille Denner Damm , São Paulo Federal University, Brazil
Award and Closing Ceremony	

