Diamond and Carbon 2017

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International Conference on

Diamond and Carbon Materials

July 17-18, 2017 Chicago, Illinois, USA

Theme: Emerging Technologies and Applications of Diamond and Carbon Materials

Tentative Program



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Bingqing Wei
University of Delaware
USA



Guang Li
Donghua University
China



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Université Paris-Sud
France



Anirudha V. Sumant
Argonne National Laboratory
USA



Gilbert Daniel Nessim
Bar Ilan Institute
Israel



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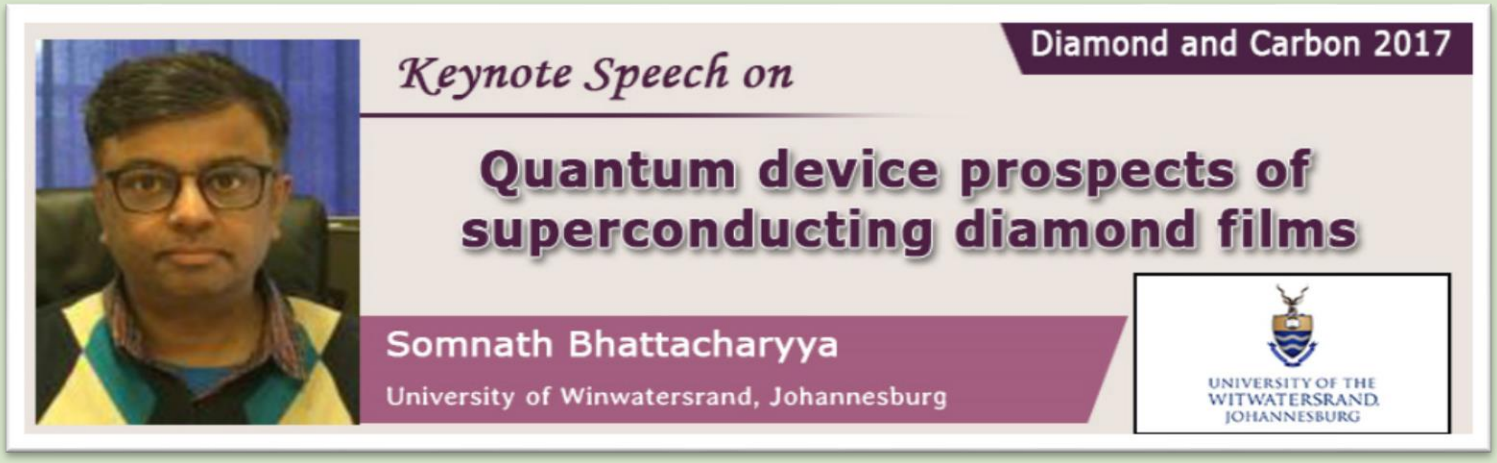
Omotayo A. Arotiba
University of Johannesburg, South
Africa

Keynote Speakers






Diamond And Carbon 2017
Keynote Speech on
Towards the growth of 3D forests of carbon nanotubes: selective height control using reservoirs and overlayers
Gilbert Daniel Nessim
Bar Ilan University, Israel
Bar-Ilan University


Diamond and Carbon 2017
Keynote Speech on
Quantum device prospects of superconducting diamond films
Somnath Bhattacharyya
University of Winwatersrand, Johannesburg
UNIVERSITY OF THE WITWATERSRAND JOHANNESBURG


Diamond And Carbon 2017
Keynote Speech on
Towards developing energy efficient systems based on novel carbon materials
Anirudha V. Sumant
Center for Nanoscale Materials, Argonne
Argonne NATIONAL LABORATORY

Tentative Program	
Day 1 July 17, 2017	
	Registrations
	Opening Ceremony
Keynote Forum	
Introduction	
	Bingqing Wei, University of Delaware, USA
	Anirudha Sumant, Arogonne National Laboratory, USA
	Somnath Bhatacharya, University of Winwatersrand, South Africa
Coffee Break	
Track 1: Nano carbon Materials **Track 3: Carbon Materials in energy**	
	Title: Thin Film Nanocrystalline Diamond for Optical & Monolithically Integrated Display Applications
	Adam Khan, Akhan Semiconductors, USA
	Title: Ferrochemistry, Its Laws and Carbon with the Relativistic Emergence of Luminous Quantum Mechanics from Superluminous Classical Mechanics with Local Violation of 2nd Law of Thermodynamics
	Reginald Little, Stillman College, USA
	Title: Superior functionality and luminescence of nanodiamonds for sensoric and diagnostic applications by targeted high temperature gas-solid reactions and electron beam irradiation
	Bernd Abel,, University of Leipzig, Germany
	Title: Towards the growth of 3D forests of carbon nanotubes: selective height control using reservoirs and overlayers
	Gilbert Daniel Nessim, Bar Ilan University, Israel

	Rapid room-temperature synthesis of doped carbon materials via polymer dehalogenation for electrochemical applications
	Xioming Sun, Beijing University, China
	Title: Abrasive superhard composite materials based on diamond and cubic boron nitride structured by nanocarbon binder at subatmospheric pressures intended for grinding and polishing tools and pastes
	Volodomyr Poltostorski, V.Bakul Institute of Superhard Materials, Ukraine

Speakers slot available @ Diamond and Carbon 2017

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	Title: Use carbon nanotubes/carbon composite counter electrodes as hole transport layer for efficient methylammonium lead bromide perovskite solar cells
	Xiaohui Liu, Inner Mongolia University of Technology, china
	Title: Fabrication and Mechanical properties of Al-SiC-B4C metal matrix composite via powder metallurgy
	Saif Wakeel, Aligarh Muslim University, India
	Title: Luminescence characteristics and related damage evolution of carbon ion implanted GaN
	Jinglon Liu, NSFC Foundation, China
	Lunch Break
	Title: Thermal expansion, elastic modulus and phase transition of carbyne: A stochastic model of chemical bonds distribution
	C. H. Wong, Moscow State University, Russia
	Title:Characterization of graphite components of FHR design
	Ruchi Gakhar, University of Wisconsin, USA
	Title: Porous Full Carbon Film of Graphene and Activated Carbon Fiber for Flexible Supercapacitors
	Guohua Sun, Chinese Academy of Sciences, China
	Title: Porous worm-like NiMoO4 coaxially decorated electrospun carbon nanofiber as binder-free high performance electrodes for supercapacitors and lithium-ion batteries
	Yan Song , University of Chinese Academy of Sciences, China.
	Title: The Effect of Carbon Materials on the Performance of a Direct Carbon Fuel Cell with Molten Hydroxide Electrolyte
	Xiaofeng Li, Inner Mongolia University of Technology, China

	Title: Stretchable Energy Storage Systems Enabled by Engineering Nanostructured Carbon
	Bingqing Wei, University of Delaware, USA
	Title: New class of porous and metal-free electrocatalyst for oxygen reduction reaction by enhanced amide functionalization on graphene
	Mohammad Shamsuddin Ahmed, Chonnam National University, Korea

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	Track 6 : Electrochemistry of diamond and nano carbon materials
	Title: Hierarchical porous carbon nanostructures for energy storage
	Jian-Gan Wang, Northwestern Polytechnical University, China
	Title: The application of Diamond, Graphene and Exfoliated graphite in electrochemical sensing and electrochemical degradation of organic pollutants in water
	Omotayo Arotiba, University of Johannesburg, South Africa
	Coffee Break
	Title: Electronic Properties of Various B-doped Diamond(111)// Dye Molecule Interfaces
	Karin Larson, Uppsala University, Sweden
	Title: Carbon based materials: a promising approach for water depollution by electrochemical advanced oxidation processes
	Marc Cretin, Université de Montpellier, France

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Day 2 July 18, 2017

Keynote Forum

Antonio Tejeda, Universite Paris Sud, France

	Gilbert Daniel Nessim, Bar Ilan University, Israel
	Track 8 : Graphene and other 2D materials **Track 4 : Applications of carbon nanotubes** **Track 7: Novel hybrid carbon materials**
	Title: Sensor Applications of Graphene Quantum Capacitance Varactors
	Steven Koester, University of Minnesota, USA
	Title: Carbon nanowalls, vertical nanographene network as platform for electrochemical application
	Mineo Hiramatsu, Meijo University, Nagoya, Japan
	Coffee Break
	Title: Gap opening and tailoring of graphene band structure
	Antonio Tejeda , Université Paris-Sud, France
	Title: FEBRICATION OF TEMPERATURE DEPENDENT SWCNT SENSOR BY PECVD TECHNIQUE
	Mohd Yaseen Lone, Jamia Millia Islamia,, India
	Title: Preparation and Mechanical Properties of Carbon Nanotube Reinforced Aluminum Matrix Composites
	Hasan Erdem Camurlu, Akdeniz University, Antalya, TURKEY
	Title: Fabrication of Electroactive Nanofibers
	Pinar Camurlu, Akdeniz University, Antalya, TURKEY
	Title: The control of pore sizes in porous carbon fiber and its enhanced microwave absorption
	Guang Li, Donghua University, Shanghai, China

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Award Ceremony

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