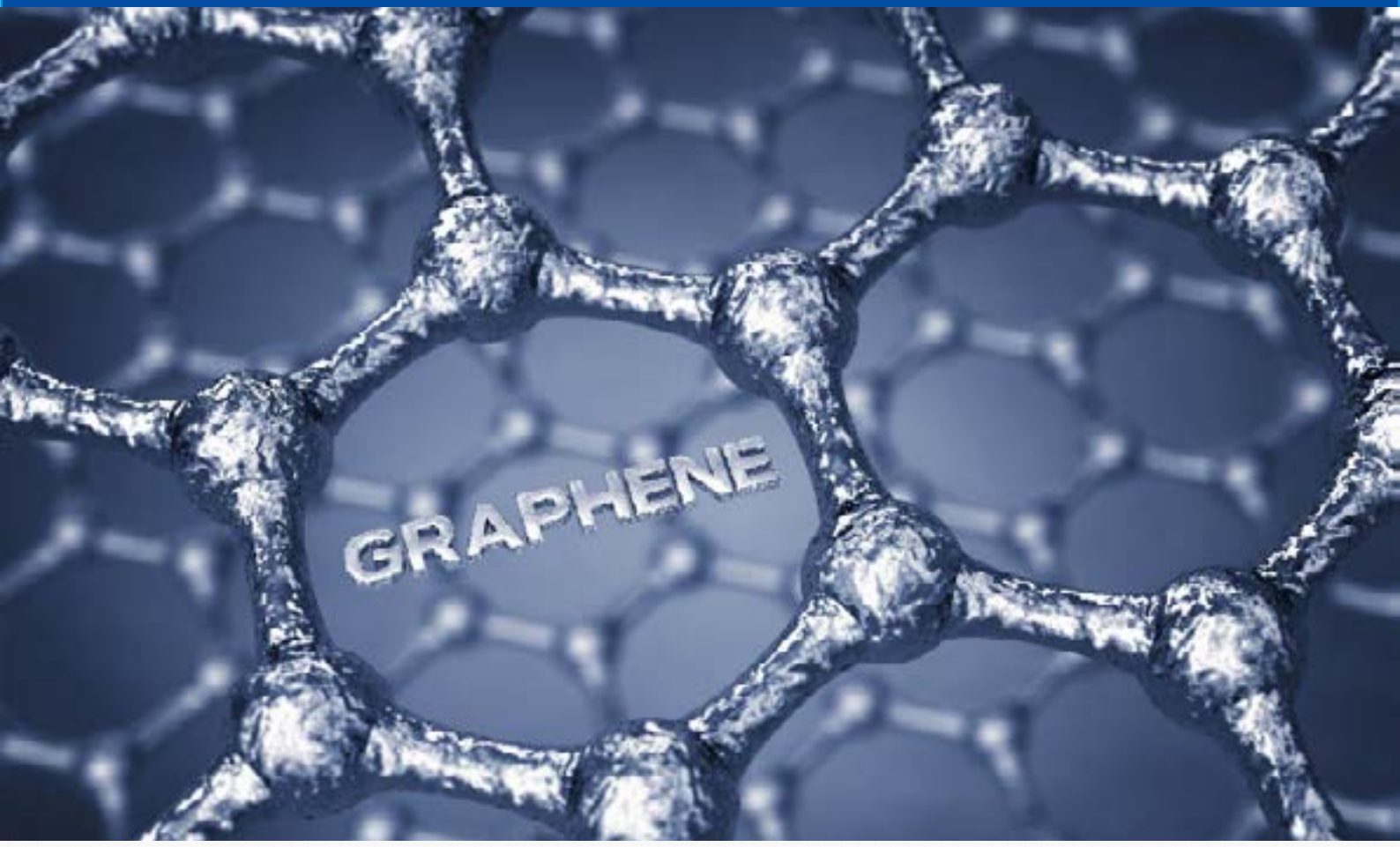
Tentative Program

22nd International Conference on

Graphene, Carbon Nanotubes and Nanostructures

September 17-18, 2018 | Berlin, Germany



Interactive Sessions | Keynote Lectures | Plenary Lectures | Workshops | Exhibitors | B2B Meetings

For available speaker slots

https://carbon.materialsconferences.com/

22nd International Conference on

Graphene, Carbon Nanotubes and Nanostructures

September 17-18, 2018 | Berlin, Germany

PROGRAM AT A GLANCE

Day 1

Morning Sessions	**Registrations**	**9.00-9.15**	
		Time	**Session 1 / session 2**
		09.00-09.15	Opening Session
	Keynote Talks	09.15-09.45	Keynote Talk 1
		09.45-10.15	Keynote Talk 2
		10.15-10.45	Keynote Talk 3
	Panel Discussions/Group Photo		
	Coffee/Tea Break 10.45-11.00 (Networking)		
Evening Sessions	11.00-12.40		5 Speakers (20 Mins Each)
	Lunch Break 12.40-13.30		
	13.30-15.30		6 Speakers (20 Mins Each)
	Coffee/Tea Break 15.30-15.45 (Networking)		
	15.45-17.25		6 Speakers (20 Mins Each)
	Day 1 Concludes		

Day 2

		Time	**Session 1 / session 2**
Morning Sessions	09.00-10.40		5 Speakers (20 Mins Each)
	Coffee/Tea Break 10.40-10.55 (Networking)		
	10.55-12.35		5 Speakers (20 Mins Each)
	Lunch Break 12.35-13.25		
Evening Sessions	13.25-15.05		5 Speakers(20 Mins Each)
	Poster Sessions		
	Coffee/Tea Break 15.05-15.20 (Networking)		
	15.20-17.00		5 Speakers(20 Mins Each)
	Day 2 Concludes		

carboncongress@materialsconferences.org/ | carboncongress@annualconferences.org

For more Details PS: https://carbon.materialsconferences.com/

Conference Highlights

- Graphene modification and functionalization
- Graphene Synthesis
- Applications of Graphene in energy
- Graphene and 2D Materials based Nanocomposites
- Emerging Trends in the field of Graphene nano
- Carbon nanotubes and graphene
- Semiconductor Materials and Nanostructures
- Graphene-like 2D materials
- Graphene nano In Energy and Storage
- Carbon nano chips and nanostructures

For detailed sessions, please visit: https://carbon.materialsconferences.com/

Submit your abstract online at: https://carbon.materialsconferences.com/abstract-submission.php

Register online: https://carbon.materialsconferences.com/registration.php

Glimpses

Glimpses

Plan your Trip to Berlin, Germany

Berliner-dom-architecture-night-germany

Berlin-Oberbaum-bridge-in-Berlin-Germany

Panorama-Brandenburg-Gate-in-Berlin-Germany

Berlinsites

Most-Festive-Christmas-Destinations-in-Europe

conferenceseries.com
1042nd Conference

Scientific Program

Joint Conference

International Conference on

Diamond and Carbon Materials & Graphene and Semiconductors

July 17-18, 2017 Chicago, USA

UK: Conference Series llc LTD
47 Churchfield Road, London, W3 6AY, Toll Free: +1-800-216-6499

Zurich

conferenceseries.com

Opening Ceremony

Keynote Forum

Introduction

Title: Graphene Nanoelectronics

Vijay K Arora, Wilkes University, USA

Title: Science and technology of multifunctional ultrananocrystalline diamond (UNCDTM) coatings and applications to a new generation of implantable medical devices

Orlando H Auciello, University of Texas-Dallas, USA

Title: Graphene battery – Impact on electrical vehicles and grid storage

Kuan-Tsae Huang, AzTrong Inc., USA

Title: Quantum device prospects of superconducting diamond films

Somnath Bhattacharyya, University of the Witwatersrand, South Africa

Group Photo

Networking & Refreshment Break

Title: Gap opening and tailoring of graphene band structure

Antonio Tejeda, Université Paris-Sud, France

Panel Discussion

Sessions:
Large scale Graphene production and characterization | Graphene and other 2D materials | Carbon nanotubes and graphene | Novel Hybrid carbon materials

Session Chair: Piotr Kula, Lodz University of Technology, Poland
Session Co-chair: James C Sung, Synthetic Element Six(SES), Taiwan

Session Introduction

Title: High Strength Metallurgical Graphene (HSMG®) – Prospects for application in functional laminates and sensors

Piotr Kula, Lodz University of Technology, Poland

Title: Sensor applications of graphene quantum capacitance varactor

Steven J Koester, University of Minnesota, USA

Title: Large single crystal graphene production

James C Sung, Synthetic Element Six(SES), Taiwan

Title: Carbon nanowalls, vertical nanographene network as platform for electrochemical application

Mineo Hiramatsu, Meijo University, Japan

Title: Crosslinking graphene oxide flakes into nonflammable membrane for safe mass-production

Z Ryan Tian, Institute of Nanoscience/Engineering, USA

Panel Discussion 13:10-13:15

Lunch Break

Title: Electrical and magneto transport properties of reduced graphene oxide thin films

Kartik Ghosh, Missouri State University, USA

Title: Suspended graphene and nanoscrolls explored by nanofocused x-rays

Gilbert Chahine, The National Centre for Scientific Research, France

Title: Graphene manufacture and simultaneous functionalization by electrochemical exfoliation – A winning paradigm or just another mark on an overpopulated IP map

Richard A Clark, Morgan Advanced Materials, USA

Title: The control of pore sizes in porous carbon fiber and its enhanced microwave absorption
Guang Li, Donghua University, China
Title: The solution-based sorting and assembly of single-walled carbon nanotubes for transistors and pressure sensors
Steve Park, Korea Advanced Institute of Science and Technology, South Korea

Panel Discussion

Networking & Refreshment Break

Sessions:
Graphene Synthesis | Electrochemistry of diamond and nanocarbon materials
Session Chair: Somnath Bhattacharyya, University of the Witwatersrand, South Africa
Session Co-chair: Jae-Jin Shim, Yeungnam University, South Korea

Title: Graphene/fluorinated graphene systems for a wide spectrum of applications
Irina V Antonova, Institute of Semiconductor Physics, Russia
Title: The application of Diamond, Graphene and Exfoliated graphite in electrochemical sensing and electrochemical degradation of organic pollutants in water
Omotayo A Arotiba, University of Johannesburg, South Africa
Title: Electronic properties of various B-doped diamond(111)/ dye molecule interfaces
Karin Larsson, Uppsala University, Sweden
Title: Graphene on Diamond (GOD)
James C Sung, Synthetic Element Six(SES), Taiwan
Title: Fluorination of boron-doped diamond film electrodes for minimization of perchlorate formation
Pralay Gayen, University of Illinois, USA
Title: Carbon based materials: A promising approach for water depollution by electrochemical advanced oxidation processes
Marc Cretin, Université de Montpellier, France

Panel Discussion

Day 2 | July 18, 2017

Zurich

Keynote Forum

Title: Enhancement of electrochemical performance of super capacitors, sensors, and photo catalysts using Graphene
Jae-Jin Shim, Yeungnam University, South Korea
Title: Stretchable energy storage systems enabled by engineering nanostructured carbon
Bingqing Wei, University of Delaware, USA
Title: Towards the growth of 3D forests of carbon nanotubes: selective height control using reservoirs and overlayers
Gilbert Daniel Nessim, Bar Ilan University, Israel
Title: Towards developing energy efficient systems based on novel carbon materials
Anirudha V Sumant, Argonne National Laboratory, USA

Panel Discussion

Networking & Refreshment Break

Sessions:
Applications of graphene in energy | Carbon Materials in Energy | Semiconductor materials
Session Chair: Jong-Sung Yu, Daegu Gyeongbuk Institute of Science and Technology, Republic of Korea
Session Co-chair: Rajib Paul, Case Western Reserve University, USA

Session Introduction

Title: Elastic nano-graphene-functionalized silicon anode for lithium ion battery with superior cycle stability and rate capability
Jong-Sung Yu, Daegu Gyeongbuk Institute of Science and Technology, Republic of Korea
Title: Porous worm-like $NiMoO_4$ coaxially decorated electrospun carbon nanofiber as binder-free high performance electrodes for supercapacitors and lithium-ion batteries
Yan Song, Institute of Coal Chemistry, China
Title: Graphene-oxide doped PEDOT: PSS as a superior hole transport material for high-efficiency perovskite solar cell
Shengzhong (Frank) Liu, Shaanxi Normal University China

Title: Porous full carbon film of graphene and activated carbon fiber for flexible supercapacitors
Guohua Sun, Institute of Coal Chemistry, China
Title: Graphene/TiO_2 composites synthesized in one-step by laser pyrolysis for improved charge extraction in perovskite solar cells
Johann Bouclé, University of Limoges, France

Panel Discussion

Lunch Break

Title: Characterization of graphite components of FHR design
Ruchi Gakhar, University of Wisconsin Madison, USA
Title: Hierarchical 3D materials with vertically aligned carbon nano-structures for efficient energy applications
Rajib Paul, Case Western Reserve University, USA
Title: Study on AlSb thin films prepared by pulsed laser deposition
Ping Tang, Sichuan University, China
Title: Sonication assisted synthesis and characterization of organic and inorganic acid doped polyaniline materials
K Karthika, Seethalakshmi Ramaswami College, India
Title: Facile synthesis of L-cysteine CdTe core shell system and its antioxidants properties
Daramola A Olamide, Walter Sisulu University, South Africa

Sessions:
Graphene modification and functionalization | Nano Carbon Materials | Applications of graphene in Biomedical
Session Chair: Adam Khan, AKHAN Semiconductor Inc., USA
Session Co-chair: Yung Woo Park, Seoul National University, Korea

Title: Manipulation of electrical properties in CVD-grown twisted bilayer Graphene induced by dissociative hydrogen adsorption
Yung Woo Park, Seoul National University, South Korea
Title: Thin film nanocrystalline diamond for optical and monolithically integrated display applications
Adam Khan, AKHAN Semiconductor Inc., USA
Title: Superhydrophilic functionalized graphene oxide-ceramic composite membrane for enhanced oily produced water treatment
Zahra Sadeghian, Research Institute of Petroleum Industry, Iran

Panel Discussion

Networking & Refreshment Break

Title: Graphene functionalized field-effect transistors for biomedical applications
Pedro Alpuim, International Iberian Nanotechnology Laboratory, Portugal
Title: Mass production of functionalized graphene quantum dots and their application in cancer diagnosis and therapy
Yanli Wang, Shanghai University, China
Title: Luminescence characteristics and related damage evolution of carbon ion implanted GaN
Jinlong Liu, National Natural Science Foundation of China, China
Title: Aluminum-α-hematite nanocomposite films for photoelectrochemical applications
Hussein Alrobei, University of South Florida, USA
Title: Ionic liquid-stabilized graphene and its use in decorated with Co nanocatalyst towards chlorinated organic pollutants degradation
Dandan Xu, Beijing Forestry University, China

Panel Discussion

Poster Sessions (July 18, 2017)

DC & GS 01	**Title: Synthesis of carbon quantum dots with tunable luminescence** **Svetlana A Smagulova**, North Eastern Federal University, Russia Federation
DC & GS 02	**Title: Quantum computation in a solid state diamond C^{12} with a chain of C^{13} atoms** **Gustavo Lopez Velazquez**, Universidad de Guadalajara, Mexico
DC & GS 03	**Title: Preparation and mechanical properties of carbon nanotube reinforced aluminum matrix composites** **H Erdem Çamurlu**, Akdeniz University, Turkey
DC & GS 04	**Title: Fabrication of electroactive nanofibers** **Pinar Camurlu**, Akdeniz University, Turkey

Panel Discussion

Award & Closing Ceremony