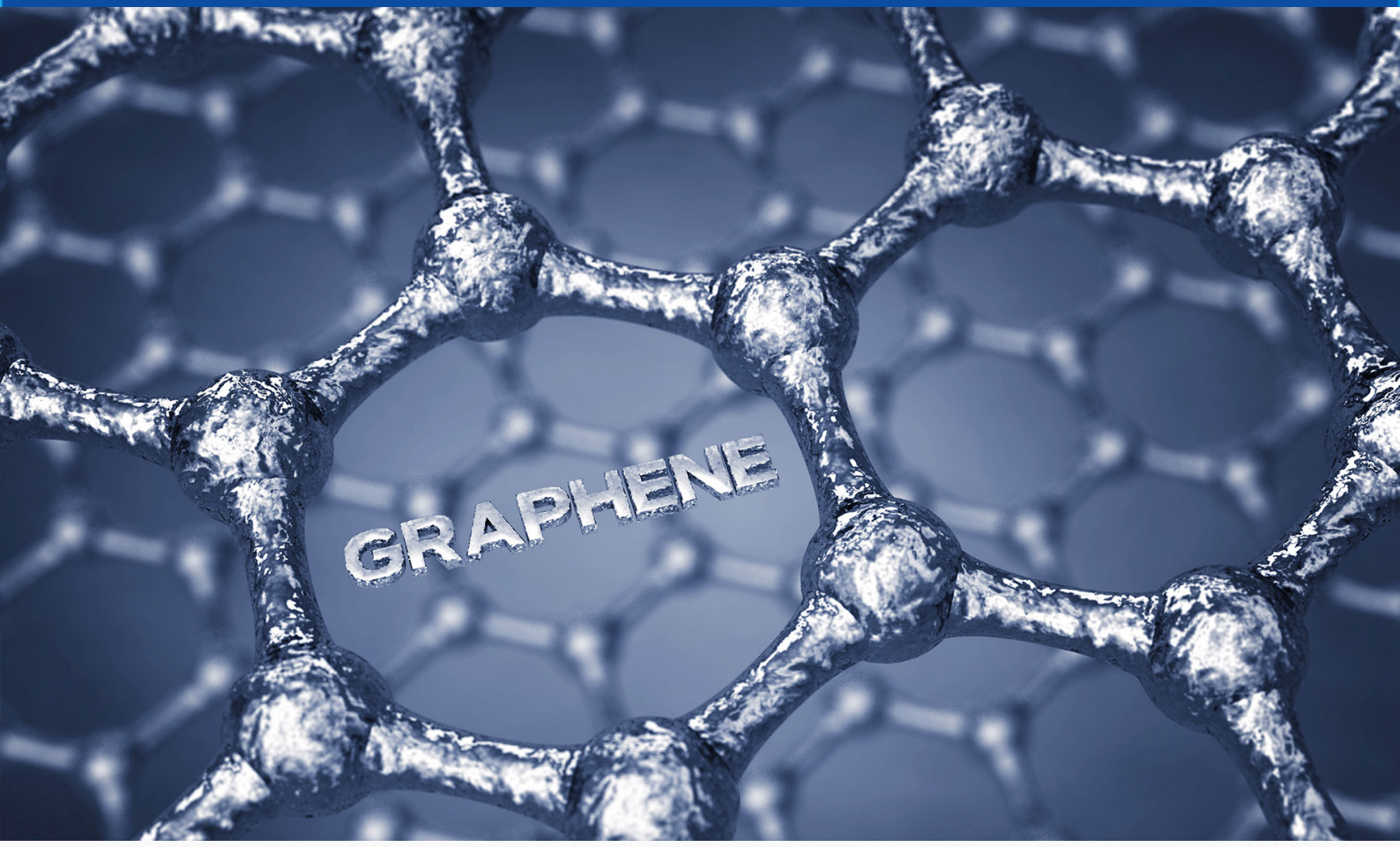
# Tentative Program

## 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** | | |

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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

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# Glimpses











# Glimpses











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**Joint Conference**

International Conference on

# Diamond and Carbon Materials & Graphene and Semiconductors

July 17-18, 2017 Chicago, USA



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# 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**<br>**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**<br>**Gustavo Lopez Velazquez**, Universidad de Guadalajara, Mexico |
| **DC & GS 03** | **Title: Preparation and mechanical properties of carbon nanotube reinforced aluminum matrix composites**<br>**H Erdem Çamurlu**, Akdeniz University, Turkey |
| **DC & GS 04** | **Title: Fabrication of electroactive nanofibers**<br>**Pinar Camurlu**, Akdeniz University, Turkey |

**Panel Discussion**

**Award & Closing Ceremony**