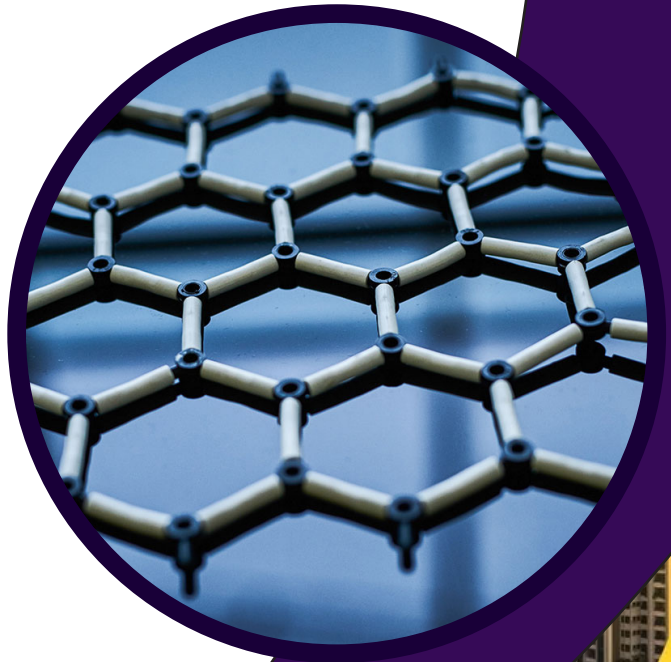
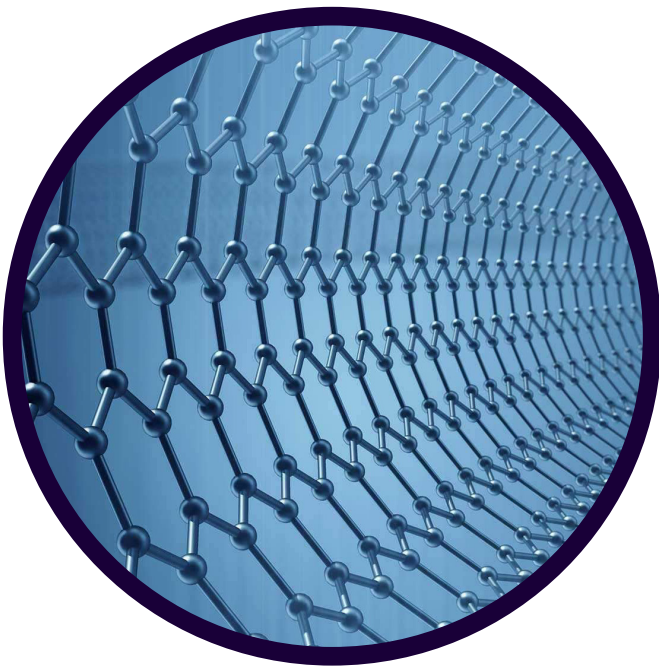


International Conference on

Graphene, Semiconductors & 2D Materials

March 20-21, 2023
City Seasons Suites,
Dubai, UAE



Scisynopsis LLC
Atlanta, GA 30326
USA

Contact us:

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Exhibitor

**BCL BUSINESS
COMMUNICATIONS LLC**

Conference Programme

March 20-21, 2023, City Seasons Suites, Dubai, UAE

Day 1 March 20, 2023

Meeting Hall: EL DHIYafa 2

9.30 - 9.45

Registrations

9.45 - 10.00

Introduction

Keynote Presentations

10.00 - 10.45

Andreas Heinrich, Aalen University, Germany

Title: Additive Manufacturing of Optics

10.45 - 11.30

William O'Neill, University of Cambridge, United Kingdom

Title: High Throughput Laser Array Based Additive Manufacturing of Metals

Oral Presentations

Session Chair:

William O'Neill, University of Cambridge, United Kingdom

Session Chair:

Norbert Hampp, University of Marburg, Germany

Sessions: Additive Manufacturing | Lasers in 3D Printing | Graphene | Semi Conductors | 2D Materials | Semiconductor Materials and Nanostructures | Synthesis of Graphene | 3D Image Processing and Visualization | 3D printing in Digital Light Processing (DLP) | Advances in Graphene | Growth and Synthesis of Graphene and 2D Materials | Physics of Graphene | Applications of Graphene in Biomedical | Perovskites

Group Photo: 11.30 - 11.45

Networking and Refreshments @ Banquet Pre Function Area: 11.45 - 12.15

12.15 - 12.40

Zhiyong Cai, Forest Products Laboratory USDA, USA

Title: Synthesizing Multi-Layer Nano-Shell Structure-based Graphene Material from Lignin and Its Potential Applications

12.40 - 13.05

Julian Polte, IWF TU Berlin and Fraunhofer IPK, Germany

Title: Opportunities and Advances in Precision Additive Manufacturing

13.05 - 13.30

Antonios Dimopoulos, Brunel University London, United Kingdom

Title: Multi-Response Optimization of Ti_6Al_4V Support Structures for Laser Powder Bed Fusion Systems

Lunch @ El DHIYafa 1: 13.30 - 14.30

14.30 - 14.55

Ana Pilipović, University of Zagreb, Croatia

Title: Influence of FDM Processing Parameters and Snack Dimension on Food Printability

14.55 - 15.20

Terence Xiaoteng Liu, University of Northumbria, United Kingdom

Title: Graphene Aerogel Electrode for Advanced Electrochemical Devices

15.20 - 15.45

Zeina Al-Nabulsi, Warwick University, DYSE, United Kingdom

Title: WAAM Ultimate Steel and Structural Applications

15.45 - 16.10

Sudhir Sharma, New York University Abu Dhabi, UAE

Title: Synthesis of Calcium Carbonate Molecular Sheets *via* Chemical Route

Networking and Refreshments @ Banquet Pre Function Area: 16.10 - 16.30

16.30 - 16.55

Vyas Mani Sharma, Tel Aviv University, Israel

Title: Additive Manufacturing of QT17-4+ PH Steel Using DED

16.55 - 17.20

Daniel Q Tan, Guangdong Technion – Israel Institute of Technology, China

Title: Fabrication of Large Interlayer Spacing 2D $Mo_2Ti_2C_3$ MXene Suitable for High-performance Supercapacitors

17.20 - 17.45

Ivan Stich, Slovak Academy of Sciences, Slovakia Republic

Title: Colossal Band Gap Response of Single-layer Phosphorene to Strain Predicted by Quantum Monte Carlo

17.45 - 18.10

Giada Gasparini, DICAM – University of Bologna, Italy

Title: Calibration of Structural Design Values for Wire-and-Arc Additively Manufactured Stainless Steel Bars

18.10 - 18.35

Shueiwan H. Juang, National Taiwan Ocean University, Taiwan

Title: Application of Metal 3D Printing to Make Conformal Cooling Lines of Die-Casting Molds

18.35 - 19.00

Martin Nozar, University of West Bohemia, Czech Republic

Title: Simple and Advanced Technologies to Improve The Properties of Metal Additive Manufacturing Products

Day 1 Concludes

Day 2 March 21, 2023

Meeting Hall: EL DHIYafa 2

Keynote Presentation

10.00 - 10.45

Norbert Hampp, University of Marburg, Germany

Title: Laser-controlled Design of Carbon Nanotube Architectures

Oral Presentations

Session Chair:

Andreas Heinrich, Aalen University, Germany

Session Chair:

Zhiyong Cai, Forest Products Laboratory USDA, USA

Sessions: 3D Printing | Nano 3D printing | 3D bio printing | Polymers in 3D printing | Metal 3D Printing | 3D Printing Future Technology | 3D Printing in Tissue Engineering & Organ Printing | | 3D Printing in Medicare, Healthcare and Life sciences | 3D printing in Orthopedics and Traumatology | Organ Printing | 4D Printing | | Organic/Inorganic Hybrid Semiconductors | Synthetic Graphite and Natural Graphite | Carbon Nanotubes | Fullerenes | Novel Hybrid Carbon Materials | Large Scale Graphene Production and Characterization | Graphene-based Nanocomposites | Electrochemistry of Diamond and Nano Carbon Materials | Graphene Modification and Functionalization | Graphene Chemistry | Graphene Applications | Carbon Nano Chips and Nanostructures | Graphene 3D Printing

10.45 - 11.10

Aleksey Adamtsevich, Moscow State University of Civil Engineering, Russia

Title: Salient Features of Structures Made by 3DCP

Networking and Refreshments @ Banquet Pre Function Area: 11.10 - 11.30

11.30 - 11.55

Muhammad Zafar Iqbal, United Arab Emirates University, UAE

Title: Graphene/Polyolefin Nanocomposites

11.55 - 12.20

Nikita Ryskin, Saratov State University, Russia

Title: Facile and Cost-Effective Fabrication of Components for Sub-THz Vacuum-Tube Electron Devices by LCD 3D Printing and Magnetron Sputtering

12.20 - 12.45

Poonam Kumari, IIT Guwahati, India

Title: Development of Flexible PVDF-Graphene Piezoelectric Nanocomposites for Smart Sensing Applications

12.45 - 13.10

Vladimir Popov, Tel Aviv University, Israel

Title: New Alloys and Materials Design *via* Additive Manufacturing

Lunch @ El DHIYafa 1: 13.10 - 14.15

14.15 - 14.40

Prahaladh Srikanth, SA 3D Solutions, India

Title: A Study on Aero Testing with Reference to F1-75

14.40 - 15.05

Rahim Mutlu, University of Wollongong in Dubai, UAE

Title: 3D Printing in Wearable Robotics: from Prosthetics to Haptics

15.05 - 15.30

Umar Asghar, University of Wollongong in Dubai, UAE

Title: 3D Printed Soft Sensors

15.30 - 15.55

Atanu Kumar Metya, (IIT) Patna, India

Title: Structure and Dynamics behavior of Binary Mixture and Electrolyte Solution in Nanochannel by 2D Materials

15.55 - 16.20

Rouslan Svintsitski, 3DCeram Sinto SAS, France

Title: Multi-material 3DPrinting, Several Technologies in One for New Ceramic Printer

Networking and Refreshments @ Banquet Pre Function Area: 16.20 - 16.50

16.50 - 17.15

Igor V. Reshetov, Sechenov University, Russia

Title: Development and Testing of Individual Titanium Implants with Bioactive Coatings Obtained by SLM for Use in Maxillofacial Surgery

17.15 - 17.40

Sudhir Sharma, New York University Abu Dhabi, UAE

Title: Synthesis of One Atom Thick-2D Gold Nanostructures- Goldene

Keynote Presentation

17.15 - 17.40

Haider Butt, Khalifa University, Abu Dhabi, UAE

Title: 3D Printed Nanocomposite Contact Lenses for Ocular Health Management

Poster Presentations

17.40 - 18.00

Markéta Havrdová, Palacký University, Czech Republic

Title: Graphene Dots with Single Atoms as A Tool for Killing Cancer Cells

18.00 - 18.20

Roberto Marsili, University of Perugia, Italy

Title: Investigating Additive Manufactured Structures by Thermoelastic Stress Analysis and Dynamic Mechanical Analysis

Video Presentations (18.20 - 19.00)

VP001

Boris Ezdin, Novosibirsk State University, Russia

Title: Research on the Nucleation of Carbon Nanoparticles

VP002

Tatjana Dostalova, Charles University, Czech Republic

Title: Intraoral 3D Scanner and 3D Stereolithography Print (SLA) in Orthodontic and Dentistry in Long-term Clinical Applications

VP003

Jolanta Janutėnienė, Klaipeda University, Lithuania

Title: Investigation of Recycled Polymers for 3D Printing

Day 2 Concludes followed by Panel Discussion - Awards & Closing Ceremony

Virtual Programme

March 20-21, 2023, Virtual Program

Day 1 March 20, 2023 GMT (London Time: 09.00 - 15.25)

Oral Presentations

09.00 - 09.25

Alexander Emmanuel Tohidi, UNSW, Australia

Title: Designing for Extreme Heat, Strategies Towards 3D Printing of Earth Structures

09.25 - 09.50

Dingwen Nic Bao, School of Architecture and Urban Design, Australia

Title: Structural Performance-Driven Generative Design and Large-Scale Robotic 3D Printing Fabrication

09.50 - 10.15

Xin Ren, Nanjing Tech University, China

Title: Auxetic Metamaterials and their Applications

Keynote Presentation

10.15 - 10.45

Kalaichelvan, Anna University, India

Title: Review on Ceramic Additive Manufacturing and it's Applications

Oral Presentations

10.45 - 11.10

Darío González Fernández, INDAERO GRUPO EMERGY, Spain

Title: Challenges in the Aerospace Application of Additive Manufacturing

11.10 - 11.35

M. A. Fazal, University of Jeddah, Saudi Arabia

Title: Characterization of Al_2O_3 , TiO_2 , Hybrid Al_2O_3 - TiO_2 and Graphene Oxide Nanofluids and Their Performance Evaluations in Photovoltaic Thermal System

11.35 - 12.00

Abhay Meena, Lok Nayak hospital, India

Title: Evaluation of contour of Acetabular Columns and Their Comparison with Anatomical Acetabular Plates for Fracture Fixation Using 3D Printing

12.00 - 12.25

Ibrahim Maouhoubi, Sidi Mohamed Ben Abdellah University, Morocco

Title: Effects of Applied External Field and The Contribution of The Hydrostatic Pressure on The Electronic Properties of Donor Impurity in A Circular Quantum Disk Made out of GaAs

12.25 - 12.50

Vijeth H, Nagaland Central University, India

Title: Polypyrrole Nanotubes Decorated With NiO for All-solid-state Symmetric Supercapacitor Application

12.50 - 13.15

Ajeet Kumar, Indian Institute of Technology (IIT) Guwahati, India

Title: Design of Support-less Lattice Structure for Advanced Product

Lunch (13.15 - 13.45)

13.45 - 14.10

Srin K. S, Indian Institute of Technology, Kanpur, India

Title : Graphene's Future Lies in LASER-Induced Layers

14.10 - 14.35

Seongwoo Woo, Ethiopian Technical University, Ethiopia

Title: Improving The Reliability Design of Mechanical Systems Such As Refrigerator

14.35 - 15.00

Amna Mazen, University of Detroit Mercy, USA

Title: Factors Affecting Ultimate Tensile Strength and Impact Toughness of 3D Printed Parts Using Fractional Factorial Design

15.00 - 15.25

Abdul Salam Sarkar, Stevens Institute of Technology, USA

Title : Emerging Anisotropic 2D Tin (II) Sulfide Monolayer and Optoelectronic Applications

Day 1 Concludes

Day 2 March 21, 2023 GMT (London Time: 09.00 - 13.10)

Oral Presentation

09.00 - 09.25

K. Saravanan, SRM Institute of Science and Technology, India

Title: Synthesis of CuO and ZnO Nanoparticles Using Borassus Flabellifer L. stem (Plant Extract) and Evaluation of Nanomedicine Applications

09.25 - 09.50

M. Irfan Hussain, University Of Science And Technology Beijing, China

Title: Research on DLP-Stereolithography 3D Printing, Microstructure and Mechanical Properties of Alumina Reinforced Zirconia (ARZ) Components

Poster Presentation

09.50 - 10.05

Mohammad Tanvir Ahmed, Jashore University of Science and Technology, Bangladesh

Title : Semiconductor to Insulator Transition of Twisted Graphene Nanoribbon *via* Boron and Nitrogen Incorporation

Oral Presentation

10.05 - 10.30

Massah Tagueu Raïssa, University of Dschang, Cameroon

Title: Aminated Metal-organic Framework MIL-101(Cr) for Electrochemical Detection of Tartrazine in Soft Drink

10.30 - 10.55

Shahzad Ashraf, NFC Institute of Engineering and Technology, Pakistan

Title : Broaching Uncouth Water Level Snag in Underground Agriculture Field Through Wireless Sensors

10.55 - 11.20

Farah Marsusia, Amirkabir University of Technology, Iran

Title: Fluorinated Graphene: Electronic and Magnetic Properties

11.20 - 11.45

B. Renganathan, Saveetha Institute of Medical and Technical Sciences, India

Title : Graphene Oxide Coating Fiber Optics Chloroform Gas Sensing Applications

11.45 - 12.10

Tunji John Erinle, Federal Polytechnic, Ekiti State, Nigeria

Title: Fused Deposition Modelling (FDM) and Selective Laser Sintering (SLS) as Indisputable Machines in Additive Manufacturing: A Review

12.10 - 12.35

Robin Singla, Thapar Institute of Engineering and Technology, India

Title : Modified Graphene The True Wonder Material

12.35 - 13.00

Sangeeta Tiwari, Amity University, India

Title : Application of 2D Polymeric Nanofibrous Membranes for Effective Removal of Arsenic From Water

13.00 - 13.25

Abhay Meena, Lok Nayak hospital, India

Title: Virtual Planning and 3D Printing Solving Problems in Giant Bone Tumors

13.25 - 13.50

R. Thiruchelvi, Vels Institute of Science, Technology and
Advanced Studies (VISTAS), India

Title: Algal Polysaccharides for 3D Printing : A Review

Day 2 Concludes Followed by Vote of Thanks

Forthcoming Events

International Conference on **Biomaterials and Biodevices**

September 25-26, 2023 | Paris, France



2nd International Conference on **Neurology and Brain Disorders**

November 2-3, 2023 | London, UK



Internarional Conference on **Hematology and Blood Disorders**

November 6-7, 2023 | Paris, France



European Conference on **Human Genetics**

November 6-7, 2023 | Paris, France



International Conference on **Gynecology and Obstetrics**

November 6-7, 2023 | Dubai, UAE



International Conference on **Biomedical Science and Engineering**

November 6-8, 2023 | Dubai, UAE



International Confernce on **Clinical Case Reports**

November 8-9, 2023 | Dubai, UAE



2nd International Conference on **Materials Science & Engineering**

November 8-9, 2023 | Dubai, UAE



2nd European Congress on **Chemistry and Applied Sciences**

November 9-10, 2023 | Paris, France



2nd International Conference on **Catalysis & Chemical Engineering**

November 9-10, 2023 | Paris, France



European Congress on **Renewable Energy and Sustainable Development**

November 16-17, 2023 | Rome, Italy



European Congress on **Biopolymers and Bioplastics**

November 16-17, 2023 | Rome, Italy



2nd International Conference on **Nanomaterials and Nanotechnology**

November 20-21, 2023 | Vienna, Austria



2nd European Congress on **Microbiology**

November 20-21, 2023 | Vienna, Austria



2nd International Conference on **Infectious Diseases**

November 20-21, 2023 | Vienna, Austria



2nd International Conference on **Addiction & Psychiatry**

November 20-21, 2023 | Vienna, Austria

