

NANO

Boston Conference

April 22-24, 2019

Venue

Crowne Plaza Boston - Newton
320 Washington St, Newton, MA 02458
United States

Sponsor/ Exhibitor

HEIDELBERG
INSTRUMENTS

 **Nano**
natureresearch

SPRINGER NATURE

DAY 1 APRIL 22 2019

8:30-10:00 NWC Boston-2019 Registrations

09:45-10:00 Conference Inauguration

PLENARY SESSION

10:00-10:45 *John C. Polanyi*
University of Toronto, Canada
STILL PLENTY OF ROOM AT THE BOTTOM; Surface Aligned Reaction Suggests New Paths to Nanofabrication

10:45-11:30 *Shaker A. Mousa*
Albany College of Pharmacy and Health Sciences, NY, USA
The Impact of Nanobiotechnology on the Future of Medicine: The Road toward Precision Medicine

KEYNOTES SESSION

11:30-12:00 *Stephen D Miller, Northwestern University Medical School, IL, USA*
Marco-targeting PLG Nanoparticles Modulate Inflammatory Monocytes for Amelioration of (Neuro)Inflammatory Diseases

12:00-12:30 *Thomas J. Webster, Northeastern University, MA, USA*
Two Decades of Commercializing Nanomedicine (with FDA Approval)

12:30-13:00 *Orlando Auciello, University of Texas at Dallas, TX, USA*
Science and Technology of Multifunctional/Biocompatible Ultrananocrystalline Diamond (UNCD™) Coatings and Applications to a New Generation of Implantable Medical Devices

13:00-14:00 Lunch & Networking Session

14:00-14:30 *Ahmed A. Busnaina, Northeastern University, MA, USA*
TBA

14:30-15:00 *Li Qiu Wang, The University of Hong Kong, Hong Kong*
Love or Hate Water?

15:00-15:30 *Svetlana V. Boriskina, Massachusetts Institute of Technology, MA, USA*
Energy-saving & Comfortable Clothes from Recycled Plastic Bags

15:30-16:00 *Bhanu Jena, Wayne State University, MI, USA*
Porosome: Cells Secretary Nanomachine

16:00-16:30 *Jae-Jin Shim, Yeungnam University, S. Korea*
Nanomaterials for Energy Storage and Photocatalysis

16:30-16:50 **Tea Break**

SYMPOSIUM “Clinical Applications of Nano-hydroxyapatite”

- 16:50–17:20 *Mario E. Rodriguez Garcia, National Autonomous University of Mexico, Mexico*
Physicochemical Characterization of Nano Bio-Hydroxyapatite Obtained by Thermal Annealing
- 17:20–17:50 *Gilberto López-Chavez, Advanced Human Bioengineering, Mexico*
Clinical Applications of Nano-Hydroxyapatite Obtained by Thermal Annealing

DAY 2 APRIL 23 2019

SESSION -1 NANOTECHNOLOGY AND NANOSCIENCES (Energy & Environment)

- 09:00–09:25 *Hai-Feng Ji, Drexel University, PA, USA*
Recent Advance in Phosphorus Nanomaterials
- 09:25–09:50 *Ram Gupta, Pittsburg State University, KS, USA*
Nanostructured Materials for Energy Generation and Storage
- 09:50–10:15 *Igor Linkov, US Army Engineer Research and Development Center, MA, USA*
From Nano to Emerging Technologies: Lessons Learned from Risk Assessment and Management
- 10:15–10:35 Tea Break**
- 10:35–11:00 *Radmila Tomovska, University of the Basque Country, Spain*
Waterborne 3D Graphene Based Self-assembly Materials for CO₂ Capture
- 11:00–11:25 *G. Fred Lopez, Northeastern University, MA, USA*
Nanoparticle Synthesis of Titanium Compounds via the Flow-Levitation Method, Applications, and Characterization
- 11:25–11:50 *Simone Musso, Aramco Services Company, TX, USA*
Why Nano Matters for Completion: From Monitoring to Healing of Smart Cement
- 11:50–12:15 *Ofra Paz-Tal, Nuclear Research Center, Negev (NRCN), Israel*
Polydiacetylene (PDA)-TTA Vesicles – Nanostructure Arrays: A Potential Tool for Radionuclide Sensing
- 12:15–12:40 *Ethan Languri, Tennessee Tech University, TN, USA*
Applications of Nanodiamond Colloids in Industry
- 12:40–13:05 *Prathik Roy, SpringerNature, NY, USA*
TBA

13:05-14:05 Lunch & Networking Session

14:05-14:30 *Prantik Mazumder, Corning Research and Development Corporation, NY, USA*
Nano-Engineering the Wetting, Optical and Adhesion Property Glass Surface and its Applications

14:30-14:55 *Ge Wang, University of Science and Technology Beijing, China*
Constructing of Ultrathin 2D Material for Highly Efficiency Electrocatalysis

14:55-15:20 *Pei Zhao, University of Waterloo, Canada*
A Three-Electrode EPD System for the Deposition of Carbon Nanotubes onto Silicon

15:20-15:45 *Shaikh Tofazzel Hossain, SUNY Oneonta, NY, USA*
Cu-O-Ce Solid Solutions and CuO/CeO₂ Nanorods Catalysts for the Application of CO Oxidation

15:45-16:00 Lunch & Networking Session

16:00-16:20 *Peter Baumli, University of Miskolc, Hungary*
Preparation and Characterization of Alkaline Metals Doped Zinc Oxide Particles and their Adsorption Behavior

16:20-16:40 *Doga Kavaz, Cyprus International University, Turkey*
Green Synthesis of Nano Particles from Agricultural Waste for Treatment of Oil Contaminated Water

17:00-18:00 POSTER SESSION

DAY 2 APRIL 23 2019

SESSION -2 NANOTECHNOLOGY AND NANOSCIENCES (Life Sciences and Medicine)

- 09:00-09:25 *Hari Shanker Sharma, Uppsala University, Sweden*
Alzheimer's Disease Neuropathology is Exacerbated Following Traumatic Brain Injury: Neuroprotection by Co-Administration of Nanowired Mesenchymal Stem Cells and Cerebrolysin
- 09:25-09:50 *Renal Backov, University of Bordeaux, France*
Integrative Chemistry toward "Out of the Box" Heterogeneous Catalysis
- 09:50-10:15 *Yongmei Zheng, Beihang University, China*
Bioinspired Wettability Surfaces: Development in Micro- and Nanostructures
- 10:15-10:40 *Wong Tin Wui, Universiti Teknologi MARA, Malaysia*
Current Progress in Nanocarrier Design for the Treatment of Lung and Metabolic Diseases
- 10:40-10:55 Tea Break**
- 10:55-11:15 *Huanchen Li, NanoSurgery Inc., MA, USA*
Nano Surgery
- 11:15-11:35 *Aruna Sharma, Uppsala University, Sweden*
Brain Injury Exacerbates Neuropathology of Sleep Deprivation: Superior Neuroprotection by Co-Administration of TiO₂-Nanowired with Alpha-MSH and Cerebrolysin
- 11:35-11:55 *Maria Augustyniak, University of Silesia in Katowice, Poland*
Chronic Exposure to Graphene Oxide can Influence on Life Expectancy and DNA Stability in *Acheta domesticus*
- 11:55-12:15 *Jianjun Wei, University of North Carolina at Greensboro, NC, USA*
A Chip-Based Nano-Optic-Fluidic Biosensor for Protein Detection
- 12:15-12:35 *Charles Jakobsche, Clark University, MA, USA*
A Versatile Platform for Adding Functional Properties to Amyloid Fibrils
- 12:35-13:30 Lunch & Networking Session**
- 13:30-13:50 *Rajnish Kumar Chaturvedi, CSIR-Indian Institute of Toxicology Research, India*
Nanomedicine in Parkinson's and Alzheimer's Disease
- 13:50-14:10 *Mengistie L. Debasu, Universidade de Aveiro, Portugal*
Highly Sensitive Near-Infrared (GdNd)₂O₃ Nanothermometers Operating in the Biological Windows

- 14:10–14:25 *Tianyuan Zhang, Zhejiang University, China*
Mesenchymal Stem Cell Engineering using Ferrimagnetic Nanocube for an Improved Ischemic Stroke Treatment
- 14:25–14:40 *Poornima Dubey, University College London, United Kingdom*
Nanofabrication of Electrospun Micelle Incorporated Nanofibers as a Novel Approach to Delivering Highly Hydrophobic Peptide Drug
- 14:40–14:55 *Chevva Harish, University of North Carolina at Greensboro, NC, USA*
Study of Growth Science of Bottom-Up and Solid-State Silver Nanowires (Ag NWs) and their Potential Application in Surface Enhance Raman Scattering (SERS) and Antibacterial Activities
- 14:55–15:10 *Khalaf Jasim, University of Central Florida, FL, USA*
Targeted Chemotherapy Approach Based on Iron-Releasing Nanoparticle Conjugates for Triggered Metastatic Melanoma Therapy *in vitro*
- 15:10–15:25 *Marta Dziewiecka, University of Silesia in Katowice, Poland*
Evaluation of Selected Biological Parameters in *Acheta domesticus* after Long-Lasting Exposure to Graphene Oxide Nanoparticles in Food
- 15:25–15:45 Tea Break**
- 15:45–16:00 *Emmanuel Eni Amadi, University of Bradford, United Kingdom*
***In vitro* Investigation into the Genotoxic Effects of Graphene Oxide on Human DNA before and after Exposure to Human Whole Blood from Healthy Individuals and Pulmonary Disease Patients: Asthma, COPD and Lung Cancer Patients**
- 16:00–16:15 *Pavan Walvekar, University of KwaZulu Natal, South Africa*
Fatty Acid Conjugated Pyridinium Cationic Amphiphiles as Antibacterial Agents and Self-Assembling Nano Carriers
- 16:15–16:30 *Thamonwan Angkuratipakorn, Thammasat University, Thailand*
Tailoring Cellulose Nanocrystals by Food Grade Cationic Surfactant (Lauric Arginate) for Stabilizing Edible Pickering Oil-in-Water Emulsion
- 16:30–16:45 *Ching Chang, National Tsing Hua University, Taiwan*
Growth of Nitrogen-Incorporated Ultra-Nano Crystalline Diamond with Acicular-Shaped Grains Using Si_3N_4 as Interface Layer and Study Its Application in Biosensor
- 16:45–17:00 *Jiankun Cao, Southeast University, China*
Nanofibers Mat as Directly Available Sampling Module of Direct Analysis in Real Time Mass Spectrometry for Fast and Sensitive High-Throughput Screening of Illegal Additives in Foods

17:00–18:00 POSTER SESSION

DAY 3 APRIL 24 2019

SESSION -3 NANOTECHNOLOGY AND NANOSCIENCES

(Nano-Electronics)

- 09:00-09:25 *Issai Shlimak, Bar Ilan University, Israel*
Irradiation-Induced Metal-Insulator Transition in Monolayer Graphene
- 09:25-09:50 *Yukiko Yasukawa, Chiba Institute of Technology, Japan*
Nano-Design of the Magneto-Optical Materials
- 09:50-10:15 *Tandabany Dinadayalane, Clark Atlanta University, GA, USA*
Computational Study on Binding of Histidine and Proline with Graphene in Gas and Aqueous Phases
- 10:15-10:40 *Basudev Pradhan, University of Central Florida, FL, USA*
Hybrid Graphene-Perovskite Quantum Dot Phototransistor with High Responsivity
- 10:40-10:50 Tea Break**
- 10:50-11:10 *Ming-Qiang Zhu, Huazhong University of Science and Technology, China*
Fluorescent Molecular Switches for Super-Resolution Imaging
- 11:10-11:30 *Jelena Kosmaca, University of Latvia, Latvia*
Application of One-Dimensional GeSn, CuO and Bi₂Se₃ Nanomaterials in Nanoelectromechanical Switches
- 11:30-11:50 *Suli Wu, Dalian University of Technology, China*
Building of Photonic Crystals by CdS Spheres with High Refractive Index and their Application to Manipulating the Luminescence Properties of NaYF₄:Yb³⁺,Er³⁺
- 11:50-12:10 *Xue-Hua Wang, Sun Yat-Sen University, China*
On-Demand Purification of Nanoparticles Based on Surface Area
- 12:10-12:30 *Mian Akif Safeen, University of Poonch, Pakistan*
Non Volatile, Reversible Metal Insulator Switching in Oxide Interfaces Controlled by Gate Voltage and Light
- 12:30-12:50 *Niloufar Yavarishad, University of Wisconsin-Milwaukee, WI, USA*
Room-Temperature Self-Powered Energy Photodetector based on Optically-Induced Seebeck Effect in Cd₃As₂
- 12:50-13:00 *Raheel Ahmed Janjua, University of Science and Technology of China, China*
Non-Conventional Ratiometric Upconversion Luminescence Remote Thermometry Based on Non-Thermally Coupled Levels of Er in High Temperature Cubic Phase NaYF₄: Yb, Er

13:00-13:15 **Best Poster Presentations Award - Closing Remarks and Discussion**

DAY 3 APRIL 24 2019

SESSION -4 NANOTECHNOLOGY AND NANOSCIENCES (Energy & Environment)

- 09:30-09:55 *Igor Levitsky, Emitech Inc, USA*
Highly Sensitive and Selective Fluorescent Sensors To Hydrogen and Organic Peroxides Explosive Vapors Based on Organic-Inorganic Nanocomposites
- 09:55-10:20 *Chuan-Jian Zhong, State University of New York at Binghamton, NY, USA*
TBA
- 10:25-10:50 *Zhaoyang Liu, Hamad bin Khalifa University, Qatar*
Fast and Efficient Oil/water Separation with ZnO Nanorods/Carbon Microfiber Composite Membranes
- 10:50-11:10 *Mingda Li, Massachusetts Institute of Technology, MA, USA*
Quantized Dislocations
- 11:10-11:30 Tea Break**
- 11:30-11:45 *Yongliang Wang, China University of Mining and Technology, China*
Adaptive Finite Element Analysis for Multistage Fracturing of Rock
- 11:45-12:00 *Elaheh Kheirandish, University of Wisconsin Milwaukee, WI, USA*
Free-Standing Two-Dimensional Alumina Grown by Graphene-Assisted Atomic Layer Deposition
- 12:00-12:15 *Kuan-Yu Chen, National Tsing Hua University, Taiwan*
Development of Fe₂O₃ Hollow Microspheres-Incorporated rGO Sponge for Effective Electromagnetic Wave Absorption
- 12:15-12:30 *Ashish Bohre, National Institute of Chemistry, Hajdrihova, Slovenia*
Synthesis of Methacrylic Acid from Biomass Derived Itaconic Acid over High Surface Area Nano-Catalysts
- 12:30-12:45 *Umer Farooq, University of Science and Technology of China, China*
High-Color-Purity Red-Emitting Phosphors Na₃.6Y_{1.8}(PO₄)₃:Pr³⁺ for Blue LED
- 12:45-13:00 *Kalpna Avasthi, National Institute of Chemistry, Hajdrihova, Slovenia*
Synthesis of Styrene from Biomass-Derived Feedstocks Over Nano Material Based Heterogeneous Catalysts
- 13:00-13:15 *Ningge Jian, Southeast University, China*
Novel Nanofibers Mat as an Efficient, Fast and Reusable Adsorbent for Solid Phase Extraction of Non-Steroidal Anti-Inflammatory Drugs in Environmental Water
- 13:15-13:30 Best Poster Presentations Award - Closing Remarks and Discussion**

* Please note that this program is TENTATIVE and subject to change without notice

We wish to see you
at
Boston, MA, USA



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