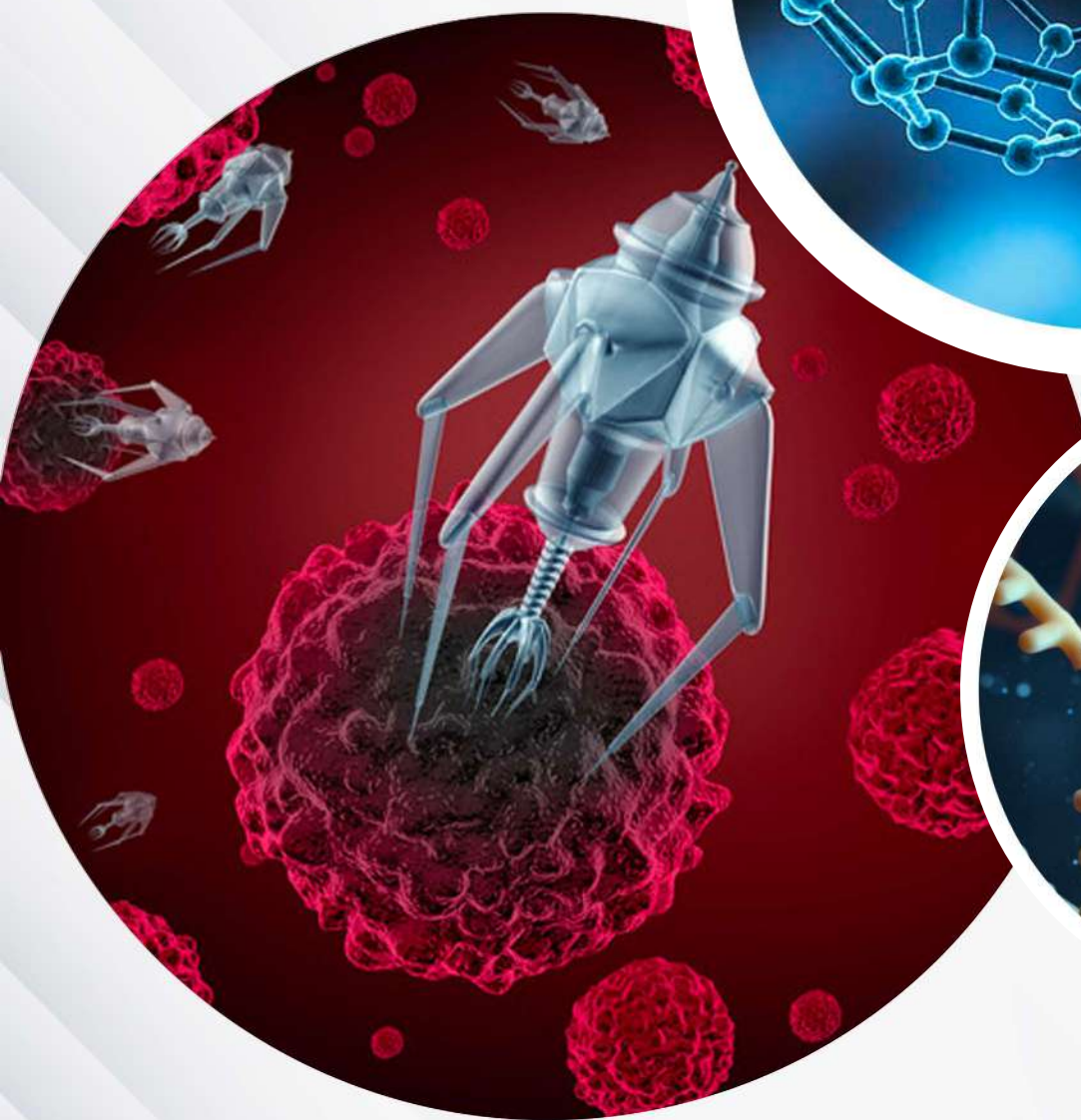
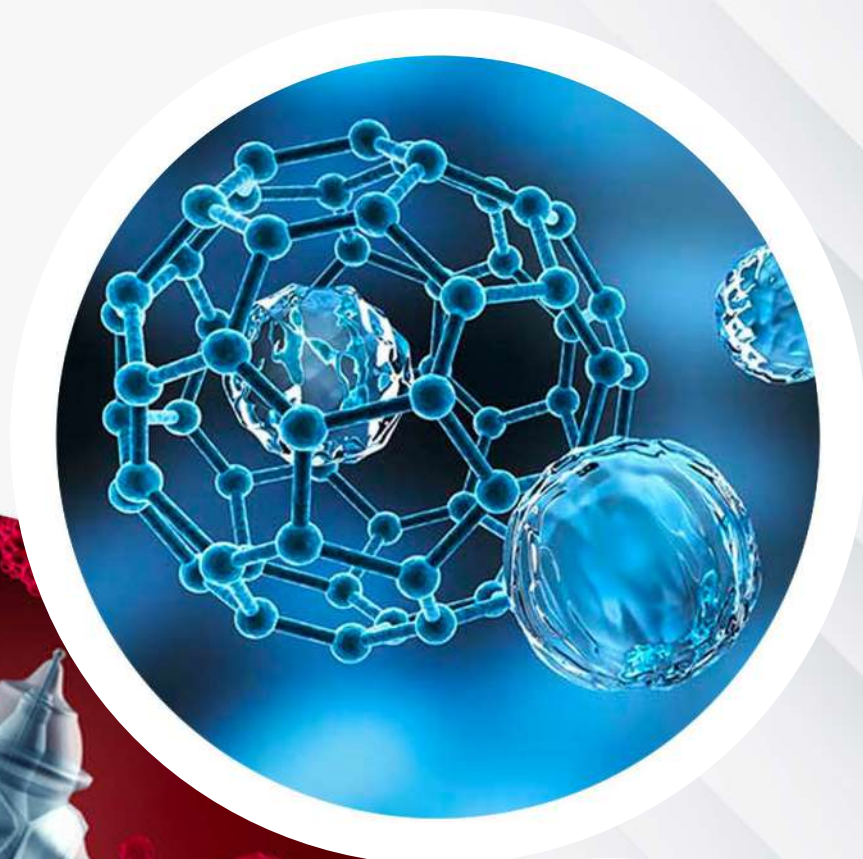


# 3<sup>rd</sup> Edition of Webinar on Nanotechnology

Aug 02 to 03, 2021



# Day-01 (August 02, 2021)

## Nanomedicine | Nanomedicine and Nano Drug Delivery Systems | Nanotechnology in Medical Diagnosis

EDT  
10:00-10:25

**Title:** Magnetically targeted drug delivery to stented blood vessels

**Michael Chorny**, The Children's Hospital of Philadelphia, USA

EDT  
10:25-10:50

**Title:** Utilizing multi-organ human on a chip systems to predict in vivo outcomes for efficacy and toxicity

**James J Hickman**, Founding Director, NanoScience Technology Center, NanoScience Technology Center, USA

EDT  
10:50-11:15

**Title:** Raman Signal Enhancement and Delineation of Cancer Cell Lines Using Au Nanoparticles

**Rina Tannenbaum**, Department of Materials Science and Chemical Engineering, Stony Brook University, USA

EDT  
11:15-11:40

**Title:** Measuring physical properties of lipid-based nanoparticles for RNA delivery with multidetector asymmetric flow field flow fractionation (MD-AF4)

**Fanny Caputo**, Department of Biotechnology and Nanomedicine, SINTEF Industry, Trondheim, Norway

EDT  
11:40-12:05

**Title:** Nanotraps for the containment and clearance of SARS-CoV-2

**Jun Huang**, Pritzker School of Molecular Engineering, University of Chicago, USA

EDT  
12:05-12:30

**Title:** Designing targeted drug delivery system using a high-throughput nanosensor

**Hung-Jen Wu**, Associate Professor, Artie McFerrin Department of Chemical Engineering, Texas A&M University, USA

EDT  
12:30-12:55

**Title:** Novel Breath Acetone Sensor Based On 1d/2d Nanocomposite For Diabetes Prevention And Monitoring

**Danling Wang**, Department of Electrical and Computer Engineering, North Dakota State University, USA

EDT  
12:55-13:20

**Title:** Nanotechnology-based Tools for Glioblastoma and Secondary Brain Cancers

**Shanta Dhar**, Assistant Director of Technology and Innovation at Sylvester Comprehensive Cancer Center, University of Miami, USA

# Break (13:20-13:30)

Nanomaterials | Nanomaterials for Energy and Environmental Applications | Graphene and Applications of 2D Materials | Nanomaterials Characterizations and Devices | Nanomaterials and Nanocomposites

EDT  
13:30-13:55

**Title:** Exploring the Limits of Magnetism in Two-Dimensional Materials

**Elton J. G. Santos**, The University of Edinburgh, UK

EDT  
13:55-14:20

**Title:** Energetic nanoaluminum with innovative polymer capping systems

**Paul A. Jelliss**, PhD, Department of Chemistry, Saint Louis University, USA

EDT  
14:20-14:55

**Title:** Anisotropic properties of bio-inspired nanocomposite materials

**Oliver Félix**, CNRS - Institut Charles Sadron, Université de Strasbourg, Strasbourg, France

EDT  
14:55-15:20

**Title:** Development of carbon nanofiber aggregate sensing technology for sustainable resilience of civil infrastructures to multi-hazards

**Yi-Lung Mo**, Professor, University of Houston, USA

EDT  
15:20-15:45

**Title:** Computational Design and Discovery of Novel Nanomaterials for Energy and Nanoelectronics Applications

**Aijun Du**, School of Chemistry and Physics, Faculty of Science, Queensland University of Technology, Australia

EDT  
15:45-16:10

**Title:** Enhanced Energy Transfer from Nitrogen-Vacancy Centers to Three-Dimensional Graphene Heterostructures by Laser Nanoshaping

**Jing Liu**, Department of Physics, Indiana University-Purdue University, USA

EDT  
16:10-16:35

**Title:** Manipulation and characterization of individual nanostructures

**Sergei Vlassov**, Institute of Physics, University of Tartu, Estonia

EDT  
16:35-17:00

**Title:** Bilayer graphene grown in Frank van der Merwe mode and its machine-learning-assisted characterization

**Haozhe Wang**, Massachusetts Institute of Technology, USA

EDT  
17:00-17:25

**Title:** Controlling epitaxial growth of wafer-scale transition metal dichalcogenides by MOCVD

**Tanushree H. Choudhury**, Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology, India

EDT  
17:25-17:50

**Title:** Towards control at the nanoscale: Coated nanodiamonds as intracellular heaters and temperature sensors

**Marco Raabe**, Max Planck Institute for Polymer Research, Germany

EDT  
17:50-18:15

**Title:** Microfluidic supported structured polymer nanoparticles and their controlled assemblies

**Nikunj Kumar R. Visaveliya**, Postdoctoral Researcher, City College of New York, USA

# Day-02(August 03, 2021)

Nanomaterials | Nanomaterials for Energy and Environmental Applications | Graphene and Applications of 2D Materials | Nanomaterials Characterizations and Devices | Nanomaterials and Nanocomposites

EDT  
08:35-09:00

**Title:** Low-dimensional Nano-materials for Photo-catalytic CO<sub>2</sub> Reduction and the Mechanistic Studies using in situ Spectroscopies  
**Li-Chyong Chen**, Center for Condensed Matter Sciences, National Taiwan University, Taipei, Taiwan

EDT  
09:00-09:25

**Title:** Ferromagnetism in Transition Metal Dichalcogenides  
**Eui Hyeok Yang**, Professor, Stevens Institute of Technology, USA

EDT  
09:25-09:50

**Title:** Carbon doped SnS<sub>2</sub> Thin Film and Powder for Artificial Photosynthesis  
**Kuei-Hsien Chen**, Distinguished Research Fellow and Director, Inst. of Atomic and Molecular Sciences, Academia Sinica, Taiwan

EDT  
09:50-10:15

**Title:** Silicon carbide for advanced in-vivo medical devices  
**Stephen E. Sadow**, Professor, University of South Florida, USA

EDT  
10:15-10:40

**Title:** Defects in Two-Dimensional Transition-Metal Dichalcogenides  
**Andrew T. S. Wee**, Department of Physics, National University of Singapore, Singapore

EDT  
10:40-11:05

**Title:** Electronic Structure and Energy Applications of 2D Materials  
**Hong Seok Kang**, Department of Nano & Advanced Materials, Jeonju University, South Korea

EDT  
11:05-11:30

**Title:** 3D bioprinting neural tissues  
**Stephanie Willerth**, Full Professor, Biomedical Engineering, University of Victoria, Canada



Nanodevices, Nanoelectronics and Nanosensors | Nano Materials Synthesis, 2D & 3D Characterization and Applications | Biomaterials and Nanobiotechnology | Nanofabrication, Nanoprocessing & Nanomanufacturing | Nano-optics and Nanophotonics

EDT  
11:30-11:55

**Title:** NEMO5, a Parallel, Multiscale, Multiphysics Nanoelectronics Modeling Tool

**Gerhard Klimeck**, Professor, Network for Computational Nanotechnology, Purdue University, USA

EDT  
11:55-12:20

**Title:** Intrinsic Defects in MoS<sub>2</sub> Grown by Pulsed Laser Deposition: From Monolayers to Bilayers

**Stela Canulescu**, Department of Photonics Engineering, Technical University of Denmark, Denmark

EDT  
12:25-12:50

**Title:** Smart contact lens sensors

**Haider Butt**, Department of Mechanical Engineering, Khalifa University, UAE

EDT  
12:50-13:15

**Title:** Sticker-like Electronics (Sticktronics) for Wearable Health Monitoring

**Chi Hwan Lee**, Associate Professor, Purdue University, USA

EDT  
13:15-13:40

**Title:** Excess Polymer in Single-Walled Carbon Nanotube Thin-Film Transistors: Its Removal Prior to Fabrication Is Unnecessary

**Benoît H. Lessard**, Department of Chemical and Biological Engineering, University of Ottawa, Canada

EDT  
13:40-14:05

**Title:** Probing the Interior of Complex Polysaccharides at the Molecular Level by Pyrene Excimer Fluorescence (PEF)

**Jean Duhamel**, Institute for Polymer Research, Waterloo Institute for Nanotechnology, Canada

# Break (14:05-14:15)

Nanodevices, Nanoelectronics and Nanosensors | Nano Materials Synthesis, 2D & 3D Characterization and Applications | Biomaterials and Nanobiotechnology | Nanofabrication, Nanoprocessing & Nanomanufacturing | Nano-optics and Nanophotonics

EDT  
14:05-14:40

**Title:** Complex Interactions between Nanomaterials and Biomolecules Elucidated with Advanced Analytical Tools

**Wenwan Zhong**, Department of Chemistry, University of California, USA

EDT  
14:40-15:05

**Title:** Charge Transfer and Exciton dynamics at hybrid organic-2D interfaces

**Wai-Lun Chan**, Department of Physics and Astronomy, University of Kansas, USA

EDT  
15:05-15:30

**Title:** Nanoscale Ferroelectric Characterization with Advanced Multi-Frequency Scanning Probe Microscopies

**Kaiyang Zeng**, Department of Mechanical Engineering, National University of Singapore, Singapore

EDT  
15:30-15:55

**Title:** Non-linear Damping Phenomena in Palladium Nano-mechanical resonators

**Ananth Venkatesan**, Department of Physical Sciences, Indian Institute of Science Education and Research, India

EDT  
15:55-16:20

**Title:** Continuous Nature Factory and Characterization of One-dimensional (1D) Silver and Palladium Nanostructures

**Shohreh Hemmati**, School of Chemical Engineering, Oklahoma State University, USA

EDT  
16:20-16:45

**Title:** Nanoscale visualization of temperature distribution on bundles of carbon nanotubes

**Hiromu Hamasaki**, Department of Mechanical Engineering, Osaka University, Japan

EDT  
16:45-17:10

**Title:** Optofluidics and its applications

**Anna Pyayt**, Department of Chemical, Biological and Materials Engineering, University of South Florida, USA

EDT  
17:10-17:35

**Title:** Thermodynamically stable, spray-coated nanoparticle solar selective absorbers with >94% optical-to-thermal conversion efficiency at 750°C

**Jifeng Liu**, Thayer School of Engineering, Dartmouth College, USA

EDT  
17:35-18:00

**Title:** Simple One Step Synthesis of Dual Emissive Heteroatom Doped Carbon Dots for Acetone sensing in Commercial Products and Cr (VI) reduction

**Naveen Kumar Reddy Bogireddy**, Condensed matter physics, Institute of Physics, The National Autonomous University of México

**Note: Program Schedule is subject to change with final allotment of speaker slots**

# WAYS TO JOIN THE WEBINAR

## DAY-01, MONDAY, AUGUST 2, 2021

10:00 AM | (UTC-04:00) Eastern Time (US & Canada)

JOIN FROM THE MEETING LINK:

<https://endeavor.webex.com/endeavor/j.php?MTID=m4daa9a9e1c07d6c95ae8d0b20b81c86c>

JOIN BY MEETING NUMBER

Meeting number (access code): 182 602 1557

Meeting password: Nano\_2021(A)

Tap to join from a mobile device (attendees only)

+1-415-655-0001,1826021557## US Toll

## DAY-02, TUESDAY, AUGUST 3, 2021

8:35 AM | (UTC-04:00) Eastern Time (US & Canada)

JOIN FROM THE MEETING LINK:

<https://endeavor.webex.com/endeavor/j.php?MTID=md596721cb472730a6bd48fb74623e713>

JOIN BY MEETING NUMBER

Meeting number (access code): 182 791 9743

Meeting password: Nano\_2021(B)

Tap to join from a mobile device (attendees only)

+1-415-655-0001,1827919743## US Toll

**Contact Person:** Luke Harris

**Website:** <https://nano.endeavorresearchgroup.com/>

**Mail:** [nano@endeavorconferences.com](mailto:nano@endeavorconferences.com)