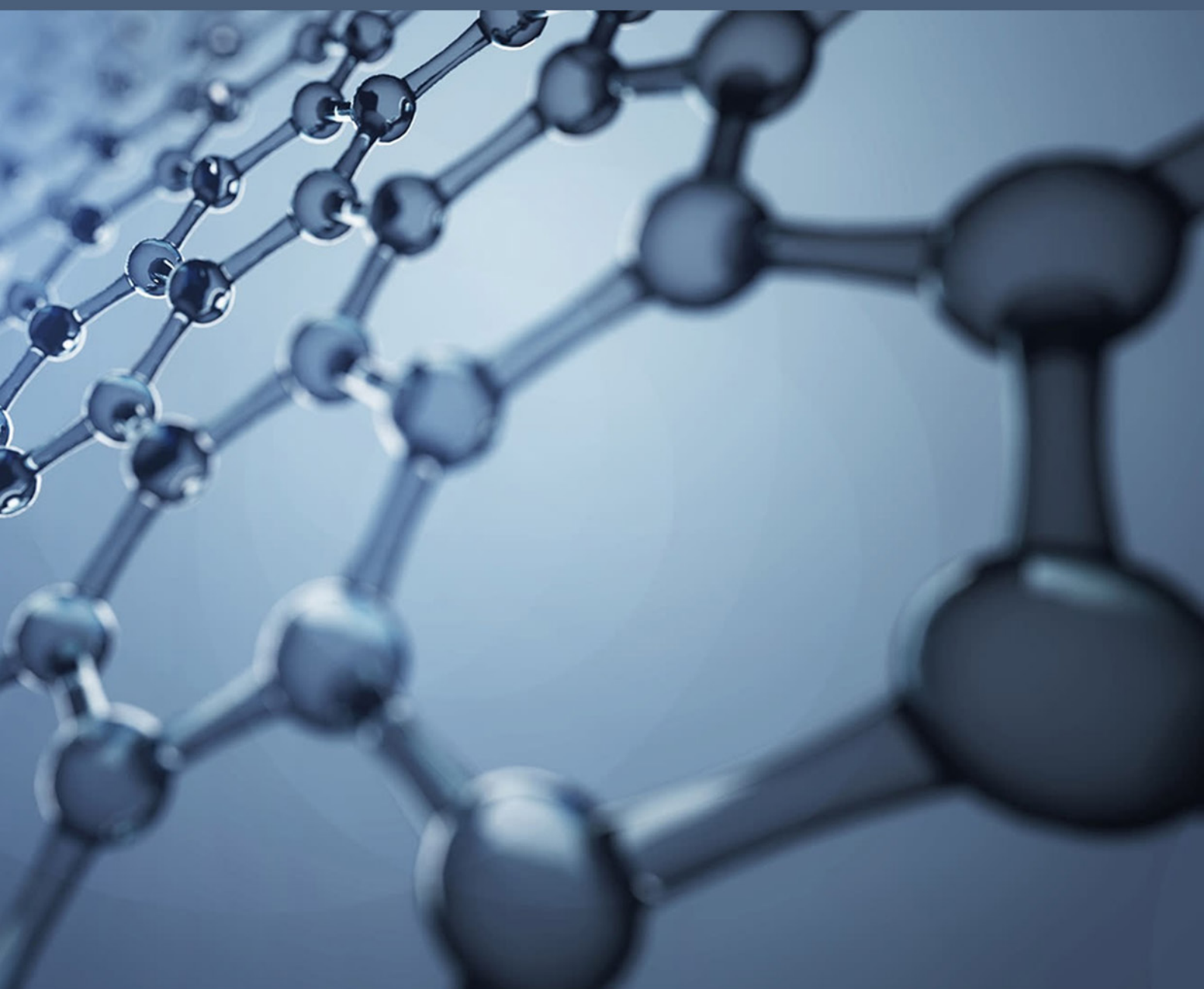


WEBINAR ON NANOTECHNOLOGY

October 21-22, 2020



w: <http://nano.endeavorresearchgroup.com>

Advisory Board Members



Peixuan Guo

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*Endowed Chair Professor,
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Rice University,
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Keynote Speakers



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*Co-Director, Center for Targeted
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Nanomedicine, USA*



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University of London, UK*



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*Nanomaterials and Devices
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*Chair, Department of
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School of Mechanical and Materials Engineering, University College Dublin, Ireland



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Julia Beecherl Endowed Professor, Director of Nanotechnology Center, USA



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Professor, Department of Physics, University of Idaho, USA



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Wei Deng

The Graduate School of Biomedical Engineering, University of New South Wales, Kensington, NSW, Australia



Gurumurthy Hegde

Centre for Nano-materials & Displays, BMS College of Engineering - India

Speakers



Tingshu Hua

Department of Electrical & Computer Engineering, University of Massachusetts Lowell, USA



Kirill A. Afonin

Associate Professor, University of North Carolina, USA



Swetha Chandrasekaran

Staff Scientist Materials Science Division, USA



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Jie Xiao

China



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Seung-Ki Lee

Functional Composite Materials
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Institute of Science & Technology, Korea



Jiban Jyoti Panda

Scientist, Institute of Nano Science &
Technology, India



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CHILE



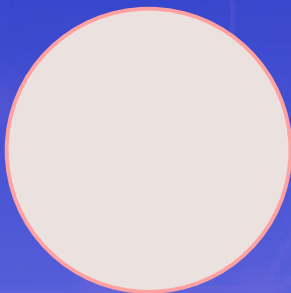
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Tehran, Iran*



I. Conejos-Sánchez

*Polymer Therapeutics Laboratory,
Spain*



Indrajit Shown

*Amrita Centre for Nanosciences
& Molecular Medicine, Amrita
Viswa Vidyapeetham, Kochi, India*

Keynote Forum

Introduction

Advisory Board Member Talks

09:00 - 09:25	<p>Title: RNA as a stretchable negative polymer and Lego block to build controllable 3D and 4D nanostructures for material and biomedical applications</p> <p>Peixuan Guo, <i>Director of Center for RNA Nanobiotechnology and Nanomedicine - USA</i></p>
09:25 - 09:50	<p>Title: Science and technology of multifunctional/low cost ultranano-crystalline diamond (UNCDTM) coatings and applications to new generation of external and implantable medical devices</p> <p>Orlando Auciello, <i>Endowed Chair Professor, University of Texas at Dallas - Texas, USA</i></p>
09:50 - 10:15	<p>Title: Single-source precursors for advanced materials synthesis</p> <p>Kenton H. Whitmire, <i>Department of Chemistry, Rice University - USA</i></p>

Keynote Talks

10:15 - 10:40	<p>Title: Enhanced penetration of magnetic nanoparticles into tumors using non-linear magnetic fields</p> <p>Andrew Tsourkas, <i>Co-Director, Center for Targeted Therapeutics and Translational Nanomedicine - USA</i></p>
10:40 - 11:05	<p>Title: Ultrahigh field-induced train in lead-free ceramics</p> <p>Haixue Yan, <i>School of Engineering and Materials Science, Queen Mary University of London - UK</i></p>
11:05 - 11:30	<p>Title: Engineering of two-dimensional nanomaterials for practical applications</p> <p>Wonbong Choi, <i>Nanomaterials and Devices Lab., MRS Fellow, University of North Texas -USA</i></p>

Refreshment break (11:30-11:40)

11:40 - 12:05	<p>Title: Organic Nanoscale Objects: Unique Properties and Hierarchical Superstructures</p> <p>Richard J. Spontak, <i>Professor of Chemical and Biomolecular Engineering - North Carolina State University-USA</i></p>
12:05 - 12:30	<p>Title: Carbon Dots as Versatile Drug Nanocarriers in Modern Medicine</p> <p>Roger M. Leblanc, <i>Chair, Department of Chemistry, University of Miami-USA</i></p>
12:30 - 12:55	<p>Title: Nanoengineered Advanced Composites for Enhanced Mechanical and Multifunctional Performance with a Focus on Self-manufacturing</p> <p>Brian L. Wardle, <i>Director, necstlab and Nano-Engineered Composite aerospace Structures (NECST) Consortium, MIT-USA</i></p> <p>Jeonyoon Lee, <i>Massachusetts Institute of Technology, USA</i></p>

12:55-13:20	<p>Title: Nanostructure formation within signal-mode and multi-mode microwave applicators</p> <p>Victor Law, <i>School of Mechanical and Materials Engineering, University College Dublin, Ireland</i></p>
Scientific Session Presentation	
13:20-13:40	<p>Title: Simple Effective Power Management Circuit for Triboelectric Nanogenerators</p> <p>Tingshu Hua, <i>Department of Electrical and Computer Engineering, University of Massachusetts Lowell</i></p>
13:40-14:00	<p>Title: Immunomodulation with nucleic acid nanoparticles (NANPs)</p> <p>Kirill A. Afonin, <i>Associate Professor, University of North Carolina, USA</i></p>
14:00-14:20	<p>Title: Direct Ink Writing of Carbon and Graphene aerogels</p> <p>Swetha Chandrasekaran, <i>Staff Scientist Materials Science Division - USA</i></p>
Lunch Break (14:20-15:00)	
15:00-15:20	<p>Title: Interface Mediated Assembly of Janus rods: a new route for fabrication of advanced materials with tailored properties</p> <p>Shaghayegh Khani, <i>Case Western Reserve University, Cleveland, Ohio - USA</i></p>
15:20-15:40	<p>Title: Hybrid Triboelectric-Electromagnetic Nanogenerator for Energy Threshold</p> <p>M. Jasim Uddin, <i>Photonics and Energy Reseach Laboratory, University of Texas Rio Grande Valley, USA</i></p>
15:40-16:00	<p>Title: Application of Nano-materials on Textile substrates to enhance their functional Properties</p> <p>Gurumurthy.B.Ramaiah, <i>Associate Professor, FTVET Institute/University - Ethiopia</i></p>
16:00-16:20	<p>Title: Cryogenic Correlative Single-Particle Photoluminescence Spectroscopy and Electron Tomography for Investigation of Nanomaterials</p> <p>Peter Dahlberg, <i>Postdoctoral Scholar, Stanford University, USA</i></p>
16:20-16:40	<p>Title: Interfacial distribution of phenolic antioxidant in Pickering emulsions</p> <p>Jie Xiao, <i>South China Agricultural University, China</i></p>
16:40-17:00	<p>Title: Solution based Selective Synthesis of 2D Heterostructure</p> <p>Seoung-Ki Lee, <i>Functional Composite Materials Research Center, Korea Institute of Science and Technology, Korea</i></p>
Refreshment break (17:00-17:10)	
17:10-17:30	<p>Title: BBB Traversing Peptide/Amino Acid Nanotherapeutics for Combating Neural Disorders</p> <p>Jiban Jyoti Panda, <i>Scientist, Institute of Nano Science and Technology, India</i></p>
17:30-17:50	<p>Title: Magnetic Liquid Metals: Stimuli-responsive antimicrobial treatment</p> <p>Vi Khanh Truong, <i>Nanobiotechnology Lab, School of Science, College of Science, Engineering and Health, RMIT, Australia</i></p>

17:50-18:10	Title: Nickel-iron binary composition boosts Prussian blue based cathode for superior K-ion storage Shaokun Chong , <i>Frontiers Science Center for Flexible Electronics, Northwestern Polytechnical University, China</i>
18:10-18:30	Title:Folate receptor-targeted RNAi nanoparticles for silencing STAT3 in tumor-associated macrophages and tumor cells Yue Tang , <i>China</i>
18:30-18:50	Graphene-based composites for an efficient and durable supercapacitor Dinesh Singh , <i>Universidad de Santiago de Chile, CHILE</i>

Day-2 (October 22, 2020)

Keynote Speeches

09:00-09:25	Title: Process-Structure-Property relationships of Nanofibers developed using the Forc spinning Technology Karen Lozano , <i>Julia Beecherl Endowed Professor, Director of Nanotechnology Center, USA</i>
09:25-09:50	Title: Advanced Magnetic Separation Nanotechnology for Nuclear Waste Recycle You Qiang , <i>Professor, Department of Physics, University of Idaho, USA</i>
09:50-10:15	Title: NanoBiotechnology Strategies towards the Development of Smart Antibiotics J. Ruben Morones-Ramirez , <i>Full Professor, Lead Scientist, NanoBiotechnology Research Group, Mexico</i>
10:15-10:40	Title: Nanomaterials For Energy Device Applications: Special Emphasis On Lithium Batteries Nallani Satyanaryana , <i>UGC-BSR-Faculty Fellow Nanoscience and Technology Research Laboratory, Pondicherry University Pondicherry, India</i>
10:40-11:05	Title: Application of mitochondrially targeted nanoconstructs to neo-adjuvant X-ray-induced photodynamic therapy for rectal cancer Wei Deng , <i>The Graduate School of Biomedical Engineering, University of New South Wales, Kensington, NSW, Australia</i>
11:05-11:30	Title: Waste to wealth based porous nanostructures for satisfying energy-water –health sector Gurumurthy Hegde , <i>Centre for Nano-materials & Displays, BMS College of Engineering, India</i>

Refreshment Break(11:30-11:40)

Scientific Session Presentation

11:40-12:00	Title: Thickness-Controlled Black Phosphorus Tunnel Field-Effect Transistor for Low Power Switches Sungjae Cho , <i>Korea</i>
12:00 - 12:20	Title: Hyper Resolute Photopolymerization: From Plasmonics Anti-Counterfeiting To Flat Optics Applications Giuseppe Emanuele Lio , <i>University of Calabria and CNR-Nanotec, Italy</i>

12:20-12:40	<p>Title: Nanocomposites materiales type hydrithalcite/Polystyrene: Thermal Evaluation Miguel Ángel de la Rosa-Guzmán, <i>DR National Polytechnic Institute, Mexico</i></p>
12:40-13:00	<p>Title: Surfactant-free syntheses of colloidal nanoparticles: ideal candidates for improved catalysts and beyond Jonathan Quinson, <i>Denmark</i></p>
13:00-13:20	<p>Title: Advanced Nanomaterials for Multifunctional Properties and Applications Tokeer Ahmad, <i>Nanochemistry Laboratory, Department of Chemistry, Jamia Millia Islamia, India</i></p>
Lunch Break (13:20-14:00)	
14:00-14:20	<p>Title: A (Super) Bug's Life: Next Generation Antimicrobial Stimuli Responsive Ninja-Particles James Chapman, <i>Australia</i></p>
14:20-14:40	<p>Title: Hydration of submerged graphene Neda Ojaghlu, <i>Virginia Commonwealth University, USA</i></p>
14:40-15:00	<p>Title: Optical nanoantenna: design, fabrication, and applications Satish Kumar Dubey, <i>Centre for Sensors, Instrumentation and Cyber Physical System Engineering (SeNSE), Indian Institute of Technology Delhi, India</i></p>
15:00-15:20	<p>Title: Epsilon-Near-Zero Resonant Tunneling Modes in Metal/Insulator/Metal nanocavities Vincenzo Caligiuri, <i>University of Calabria - Department of Physics, Italy</i></p>
15:20-15:40	<p>Title: Titania Nanoparticles as modified Photocatalyst for Environmental Applications Tarun Parangi, <i>Department of Chemistry, Sardar Patel University, India</i></p>
15:40-16:00	<p>Title: The effects of membrane composition and rigidity on the interaction of gold nanoparticles with lipid interfaces Andrea Ridolfi, <i>Centre for Colloid and Surface Science, Italy</i></p>
16:00-16:20	<p>Title: Controlling the nucleation and growth of atomic layers in nanowires. Carina B. Maliakkal, Researcher, <i>Lund University, Sweden</i></p>
Refreshment Break(16:20-16:40)	
16:40-17:00	<p>Title: Oxygen release heterogeneity from cation migration kinetics in layered lithium cathodes Congli, <i>Wuhan University of Technology, China</i></p>
17:00-17:20	<p>Title: Gold-Based Hybrid Nanostructures: Promising Nanomaterials for Combinational Cancer Therapy Mona Khafaji, <i>Sharif University of Technology - Tehran, Iran</i></p>
17:20-17:40	<p>Title: Polypeptide-based Conjugates as Versatile Therapeutics I. Conejos-Sánchez, <i>Polymer Therapeutics Laboratory, Spain</i></p>
17:40-18:00	<p>Title: Band structure engineering of 2D SnS₂ thin film and its surface interaction with CO₂ molecule for photo-catalytic reduction Indrajit Shown, <i>Amrita Centre for Nanosciences and Molecular Medicine, Amrita Viswa Vidyapeetham, Kochi, India</i></p>



Global Summit on
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