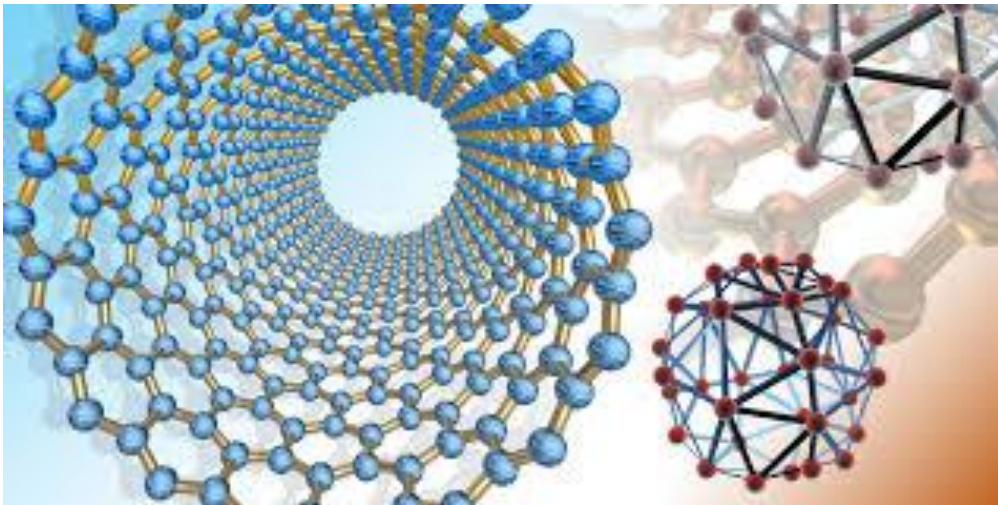




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International Conference:
***“Current Trends and Perspectives on the
Synthesis & Use of Nanomaterials and
Nanotechnologies for Sustainable Energy
Solutions”***



June 28th, 2021

Venue: Constanta, Romania & Online

**Event dedicated to the Celebration of 10th Anniversary of the activity of
the Institute for Nanotechnologies and Alternative Energy Sources**



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Final Program

Date: June 28th, 2021

Place: Senate Hall, Campus of Ovidius University of Constanta

June 28th

09:30 Registration of participants

10:00 Opening Session

Assoc. Prof. Dr. Dan ILIESCU, Rector, "Ovidius" University of Constanta

Prof. Dr. Diane Corina Paula VANCEA, Chair of the Senate, "Ovidius" University of Constanta

Prof. dr. Eden MAMUT, Director, Institute for Nanotechnologies & Alternative Energy Sources, "Ovidius" University of Constanta

Acad. Ioan DUMITRACHE, Romanian Academy

Dr. Laszlo BORBELY, State Counselor, Department for Sustainable Development, Romanian Government

Acad. Abel MAHARRAMOV, Azerbaijan National Academy of Sciences, "*Development Prospects of Nanotechnology in Scientific Relations between Azerbaijan and Romania*"

Prof. Dr. Ion STAMATIN, 3NANOSAE Research Centre, University of Bucharest

Dr. Ion MORJAN, National Institute for Laser, Plasma and Radiation Physics, Bucharest

Prof. Dr. Victor CIUPINĂ, "Ovidius" University of Constanta, "*Cu/Co/Fe Nanostructures with Giant Magnetoresistance Properties*"

10:45 Plenary Section on: „Current Trends and Perspectives on Nanosciences & Nanomaterials”

Prof. Dr. Diana BORCA-TASCIUC, Rensselaer Polytechnic Institute, USA, "*Solar Power Harvesting Building Envelope Employing Luminescent Solar Concentrators*"

Dr. Michele Giocondo, Dr. Tiziana RITACCO, Institute of Nanotechnology, Consiglio Nazionale delle Ricerche, Italy, "*Physical Phenomena beyond the Gold Nanoparticles Clustering, by Multi-photon Photoreduction*"

Prof. Dr. Xi Jin XU, Dean of the School of Physics & Technology, University of Jinan, P. R. China (t.b.c.) "*Design and Syntheses of Transition-metal micro/nano-architectures for Energy Storage*"



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Yun Zhang, Wenkai Zhu, and Prof. Dr. Theodore BORCA-TASCIUC, Rensselaer Polytechnic Institute, USA *“Quantitative Temperature Distribution Measurements by Non-contact Scanning Thermal Microscopy Using Wollaston Probes Under Ambient Conditions”*

12:00 Plenary Section on: “Smart Nanomaterials, Nanotechnologies and Metamaterials”

Dr. Antonio FERRARO, University of Calabria – Department of Physics, *“Hyper Resolute Photopolymerization Towards 2D and 3D Nanodevice”*

Assoc. Prof. Dr. Gabriel PRODAN, “Ovidius” University of Constanta, *“Plasmonic Sensors in Smart Anticorrosive Monitoring System”*

A.M. Maharramov, F.V. HAJIYEVA, Baku State University, *“New Hybrid Nanomaterials for Solar Cells Application”*

A.M. Maharramov, F.V. Hajiyeva, E.M. ABDULLAYEVA, Baku State University, *“Removal of Coomassie Brilliant Blue R-250 Dye Using Iron Oxide (Fe₃O₄) Magnetic Nanoparticles”*

A.A. NOVRUZOVA, M.A. Ramazanov, F.V. Hajiyeva, Baku State University, Azerbaijan, *“Photoluminescence Properties of Hybrid Nanocomposites on the Base of PVDF+PbS+CdS”*

G.G. VALIYEVA¹, Luca Di Palma², S.R. Hajiyeva¹, M.A. Ramazanov¹, F.V. Hajiyeva³, E.K. Gasimov⁴, F.H. Rzayev⁴, ¹Baku State University, ²Sapienza Universita` di Roma, ⁴Azerbaijan Medical University, *“Reuse of Bimetallic Nanoparticles for Nitrate Reduction”*

13.30 Lunch Break

13:45 Plenary Session on: “Beyond Nano: Smart Nanomaterials, Nanotechnologies and Metamaterials for Plasmonics and Advanced Energy Systems”

M. NIȚĂ, University of Bucharest, Faculty of Physics, 3Nano-SAE: Research Center, *“Heterogeneous Photocatalytic Degradation of Dyes using TiO₂ Nanotubes”*

H.A. SHIRINOVA, M.R. Hasanova, Baku State University, Azerbaijan, *“PL Properties of Amorphous Silica-Based Nanocomposite Depending on Quenching Condition”*,



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Florentina Iuliana MAXIM, University of Bucharest, 3Nano-SAE Research Center, *"Plasma Doped Nitrogen Carbon Materials for Electrocatalytic Applications"*

Matei-Tom IACOB, University of Bucharest, 3Nano-SAE Research Center, *"Plasma Treated Anodes and Cathodes. Improved Electrodes for Microbial Fuel Cells"*

Esmail JALALI LAVASANI, Ioan Stamatina, George Zărnescu, University of Bucharest, Faculty of Physics, 3Nano-SAE: Research Center, *"Development of Synthesis, Characterization, and Thermoelectric Properties of Barium Calcium Cobalt Oxide Nanoceramics"*

Dr. Laurentiu OANCEA¹, Prof. Dr. Eden Mamut¹, George Suci² ¹"Ovidius" University of Constanta, ²Beia Ltd. *"Nanostructured Layers for Anti-fouling Protection of Submerged Piping Structures"*

Cristina SOFRONIEI¹, Dr. Cornelia Nichita², Prof. Dr. Ion Stamatina², Prof. Dr. Eden Mamut¹, ¹"Ovidius" University of Constanta, ²University of Bucharest, *"Nanostructured Catalysts for Urea Fuel Cells"*

15:30 Panel discussions on „Risks and Hazards Related to Manufactured Nanomaterials”

Moderator: Prof. dr. Eden MAMUT, Director, Institute for Nanotechnologies & Alternative Energy Sources, "Ovidius" University of Constanta

16:30 Debates and Conclusions

Contact:

Assoc. Prof. Dr. Gabriel PRODAN

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