International Workshop on Advances in Nanomaterials

September 10-12, 2018

Program

Monday 17.09:
1. Official opening (9.15-9.30): Nicola Seiani, Stefan Antohe, Lucian Pintilie

2.1 Size effects, quantum dots and nanomagnetism (9.30-11.00)

Mira Ristić, Rudjer Boskovic Institute, Zagreb, Croatia: Metal Oxide Nanostructures: Chemical Synthesis and Properties (9.30 - 10.00)

Stjepko Krehula, Rudjer Boskovic Institute, Zagreb, Croatia: Influence of Metal Doping on the Properties of Iron Oxide Nanoparticles (10.00 - 10.30)

Marko Boskovic, Vinca Institute of Nuclear Sciences, Belgrade, Serbia: AC magnetometry for hyperthermia applications (10.30 - 11)

11-11.30 Coffe Break

2.2 Size effects, quantum dots and nanomagnetism (11.30-13.00)

R. Piticescu, National Institute of Non-ferrous and Rare Metals, Bucharest: to be announced (11.30 - 12.00)

S. Greculeasa, National Institute for Materials Physics, Magurele - Bucharest: Multifunctional and tunable iron oxides prepared by laser Pyrolysis (12.00 - 12.30)

V. Barsan, National Institute for Physics and Nuclear Engineering and the Horia Hulubei Foundation, Magurele - Bucharest: Applications of generalized Lambert functions in nanomagnetism (12.30 - 13.00)

13.00-14.15 Lunch

3.1. Photovoltaics, Photocatalysis and Photonics (14.15-15.45)

Suzana Topuzovski, Sts. Kiril and Metodius University, Skopje: Shaping Laguerre-Gaussian laser modes (with or without phase singularities) by using fork-shaped gratings (14.15 - 14.45)

Sorina Iftimie, Physics Department, Bucharest University: Organic and biologic thin films based photovoltaic devices: preparation, characterization and optimization (14.45 - 15.15)

Lucia Leonat, National Institute for Materials Physics, Magurele - Bucharest: Defects in organic/hybrid thin films solar cell (15.15 - 15.45)

15.45-17.30 Coffe Break + Visits in laboratories + Discussions

Tuesday 18.09

3.2. Photovoltaics, Photocatalysis and Photonics (9.30-11.00)

N. Seriani, ICTP - Trieste: Photoelectrochemistry of water splitting form first principles (9.30 - 10.00)

Erick Vesselli, University of Trieste: Vibronic and chemical properties of supported single metal atom catalysts (10.00 - 10.30)

Vlad Antohe, Physics Department, Bucharest University: Fabrication and characterization of Cu nanowire arrays for photovoltaic applications (10.30 - 11.00)

11-11.30 Coffe Break

3.3. Photovoltaics, Photocatalysis and Photonics (11.30-13.00)

G.A. Nemnes, Physics Department, Bucharest University: How measurement protocols influence the dynamic J-V characteristics of perovskite solar cells: Theory and experiment (11.30 - 12.00)

M.Grigoroscuta, National Institute for Materials Physics, Magurele - Bucharest: Spectral up-conversion of Yb/Er doped CeO2 thin films on Si solar cells (12.00 - 12.30)

Mihaela Baibarac, National Institute for Materials Physics, Magurele - Bucharest: to be announced (12.30 - 13.00)

13-14.15 Lunch

14-15-15.30: Discussions with the Humboldt Foundation Representatives

4.1 Low dimensional systems and heterojonctions (15.30-17.00)

Nenad Novkovski, Sts. Kiril and Metodius University, Skopje: Interface state densities in different heterojunctions (15.30 - 16.00)

Radu Dragomir, National Institute for Materials Physics, Magurele - Bucharest: Spin correlations in 2D electron systems (16.00 - 16.30)

Andra Georgia Boni, National Institute for Materials Physics, Magurele - Bucharest: Multiferroic heterojunctions: the role of interfaces (16.30 - 17.00)

Wednesday 19.09

4.1 Low dimensional systems and heterojonctions (9.30-10.30)

Ruxandra Vidu, National Institute for Materials Physics, Magurele - Bucharest: to be announced

Cristian Teodorescu, National Institute for Materials Physics, Magurele - Bucharest: to be announced

10.30-10.45 Coffe Break

4.2 Low dimensional systems and heterojonctions (10.45-11.45)

Felicia Tolea, National Institute for Materials Physics, Magurele - Bucharest: Multifounctional magnetic materials: Superposed shape memory and magneto-caloric effects

Ionut Enculescu, National Institute for Materials Physics, Magurele - Bucharest: Metallic and Semiconducting nanowires and applications

11.45-11.55 Final Remarks

12.00-13.00 Lunch