

**PROGRAM CA Bucharest Training School on
Nanomaterials synthesis and advanced characterization techniques at nanometer and atomic scale
4th – 7th June 2019**

Hour	Tuesday	Wednesday	Thursday	Friday
8:00	Registration			
8:15				
8:30				
8:45				
8:45	Opening Remarks			
9:00	The application of STM and AFM techniques in Nanotechnology (Marius Enachescu)	Synthesis of SWCNTs, CNOs and Graphene via PLA (Mariana Prodana)	TEM studies on Carbon and Related Materials: basic concepts and illustrative examples (Raul Arenal)	Theoretical Predictions for the Elastic Properties of Carbon Nanotubes and their Applications (Mircea Bercu)
9:15				
9:30				
9:45				
10:00				
10:15				
10:30	Coffee Break	Coffee Break	Coffee Break	Coffee Break
10:45				
11:00	A Raman approach for carbon-based nanomaterials and systems (Elena Maria Anghel)	Practical Aspects Regarding the Electrodeposition of Metal and Alloy Composites with Carbon Nanomaterials using ILs based Electrolytes (Liana Anicai)	Carbon/epoxy composites revisited: interface/interphase modification for property enhancement (Naum Naveh)	Electrodeposition Laboratory
11:15				
11:30				
11:45				
12:00				
12:15				Lunch Break
12:30	Lunch Break	Lunch Break	Lunch Break	
12:45				
13:00				
13:15				
13:30				Closing Remarks
13:45	Atomic Force Microscopy (AFM) Laboratory	Pulsed Laser Ablation (PLA) Laboratory	Scanning Transmission Electron Microscopy (STEM) Laboratory	
14:00				
14:15				
14:30	Confocal micro-Raman Spectroscopy Laboratory	Scanning Electron Microscopy (SEM) Laboratory	X-Ray Diffraction (XRD) Laboratory	
14:45				
15:00				
15:15				
15:30	Coffee Break	Coffee Break	Coffee Break	
15:45				
16:00	1 st Oral Presentations Session	2 nd Oral Presentations Session	3 rd Oral Presentations Session	
16:15				
16:30				
16:45				
17:00				
17:15				
17:30				
17:30			Poster Session	
17:45	Poster Session	Poster Session		
...				
19:30 -			Networking Dinner	

1st Oral Presentations Session, 4th June, Tuesday	
16:00 – 17:45	S1.1. Yunfu Ou Interlaminar toughening in structural carbon fiber/epoxy composites interleaved with carbon nanotube veils
	S1.2. Stefan Valkov Surface modification of Al substrate with TiCN nanopowder by electron-beam treatment
	S1.3. Anastasios Stergiou New avenues for heterofullerene chemistry
	S1.4. Branislav Stankovic Investigation of the changes in fullorol structure during the thermal treatment
	S1.5. Michela Alfe Reinventing carbon black for the synthesis of advanced materials
	S1.6. Valentina Gargiulo Integration of carbon black-derived building blocks in composite materials
	S1.7. Sabrina Rosoiu Electrodeposition of Ag and Ag composites with carbon nanotubes using novel deep eutectic solvent formulations
2nd Oral Presentations Session, 5th June, Wednesday	
16:00 – 17:45	S2.1. Müslüm Kaplan Investigation of carbon nanotube/ thermoplastic polymer composites
	S2.2. Ana Barra Development of clay-supported graphene-like materials using sepiolite and caramel
	S2.3. Mariana Silva Improvement of titanium dioxide's photocatalytic activity with carbon materials
	S2.4. Zélia Alves Improvement of alginate films with ZnO - reduced graphene oxide filler dispersed in sepiolite
	S2.5. Johnny Chimborazo Towards controllable inner chirality in double-walled carbon nanotubes
	S2.6. Jacob Shiby Mathew Tribological analysis of plasma sprayed alumina-graphite coatings
	S2.7. Silvia Giordani Carbon Nano Onions
3rd Oral Presentations Session, 6th June, Thursday	
16:00 – 17:30	S3.1. Ana Teresa Brandão Deep eutectic solvents and carbon materials for energy storage applications
	S3.2. Rocío Rojas Hernández Designing nanostructured luminescent materials
	S3.3. Maria Kanidi Films of polymer blends with tunable wettability on microstructured silicon substrates
	S3.4. Maria Cristina Cringoli Nanocarbons and Peptides for Hybrid Functional Materials
	S3.5. Artem Iakunkov Swelling of graphene oxide membranes in alcohols: effects of molecule size and air ageing
	S3.6. Andreas Nordenström Activated graphene as electrode material in supercapacitors
Poster Session	
	P1. Selene Acosta Morales

Application of graphene conjugated with chlorine e6 in photodynamic therapy
P2. Irina Kuehne A rare Mn(III) low-spin compound attached to few-layer graphene
P3. Tatiana Silva Toxicometabolomics of graphene based nanomaterials (GBNs): towards mechanistic insights and new biomarkers
P4. Jelena Jovanovic Novel synthesis of nanocomposites based on reduced graphene oxide and gelatine
P5. Cormac Costello Towards Core-Shell Nanoparticle-Graphite Composites for Reinforced Membrane Filtration
P6. Dzhihan Menseidov Electrical properties of nanomaterials
P7. Vladimir Ciobanu GaN micro-nanostructures for electronic and environmental applications
P8. Morari Vadim Technologies of obtaining optical and photoelectrical properties in the Zn _{1-x} Mg _x O thin films
P9. Irina Plesco Multifunctional flexible nanocomposites based on semiconductor compounds and carbon aerogels
P10. Jelena Tanasic Hybrid biobased nanomaterials
P11. Joanna Rymarczyk Characterization of nanocomposite carbonaceous films with metallic nanoparticles
P12. Izabela Stepińska Nanocomposite materials for photothermal effect
P13. Benas Beklešovas Multiferroic and doped diamond like carbon thin films deposition by reactive magnetron sputtering method
P14. Ines Cazin Covalent Functionalization of Graphite using Diazonium Chemistry: Towards Modulation of Surface Properties
P15. Ecaterina Magdalena Modan Regional Center of Research & Development for Materials, Processes and Innovative Products Dedicated to the Automotive Industry (Crc&D-Auto)
P16. John David Gordon Towards a Tuneable Thermal Conductivity Material via Low Voltage Ordering of CNT Networks
P17. Anthony Carter Strongly-Coupled Radicaloid Ligands Force Quenching of Zero Field Quantum Tunnelling in a Stable Dy ₂ Single Molecule Magnet
P18. Geanina Mihai Manufacturing and dispersion of SWCNTs as a prerequisite for nano-device building using Electron Beam Lithography
P19. Oana Andreea Lazar Platinum decorated reduced graphene oxide for PEM fuel cells applications
P20. Calin Constantin Moise Graphene synthesized by KrF excimer laser ablation - Complex characterization
P21. Veronica Anastasoae Electrochemical Synthesis of Bismuth and Copper Nanowires Involving Ionic Liquids Analogues
P22. Laura Bianca Enache Platinum Nanoparticles Synthesized by KrF Laser Ablation for Smart Catalysis

P23. Alin Alexandru Jderu

Tuning synthesis between carbon nano-tubes, carbon nano-onions and graphene in the same reactor

P24. Cristina Pavel

Morphological and structural investigations of electrodeposited Ni-Sn alloy/reduced graphene oxide composites from deep eutectic solvents

P25. Aida Pantazi

Multiwalled carbon nanotubes-silver nanocomposite coatings from ionic liquids analogues – morphological and structural analysis