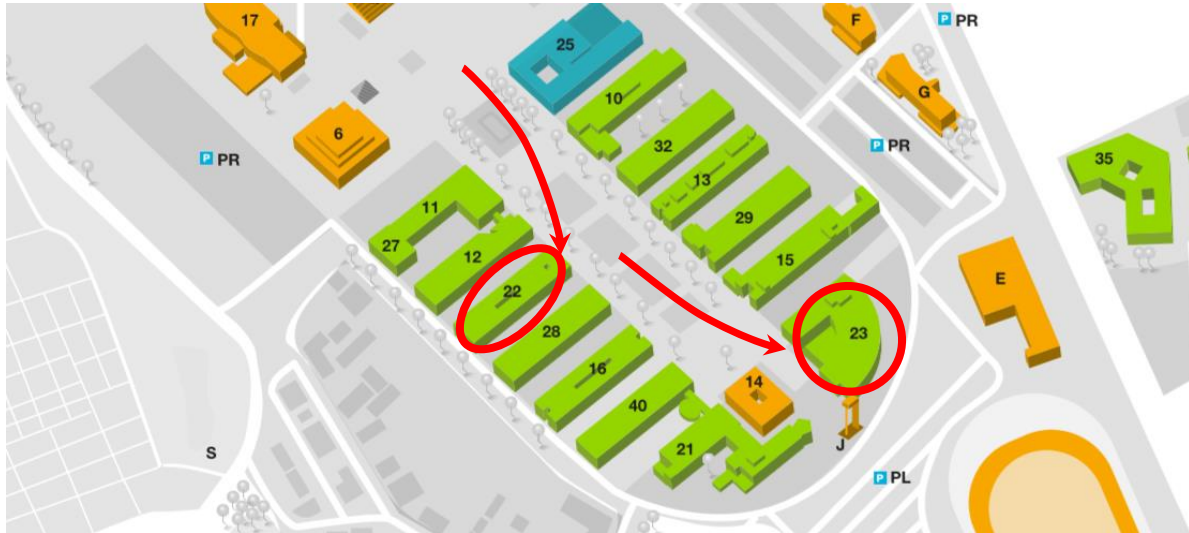




2nd International Conference on Nanomaterials Science and Mechanical Engineering

(SCIENTIFIC PROGRAM)

University Aveiro, DEM, Complexo Pedagógico (auditorium 23.1.7) 09.07-12.07. 2019



Department of Mechanical
Engineering - 22

Complexo Pedagógico - 23





10 July 2019

2 nd International Conference on Nanomaterials Science and Mechanical Engineering			
9:00-9:30	Auditorium 1: Anf. 23.1.7 (Complexo Pedagógico)		
	<p>WELCOME ADDRESS: Prof. Dr. Vítor António Ferreira da Costa (UA, Portugal), Prof. Dr. António Manuel de Bastos Pereira (UA, Portugal), Dr. Paula Alexandrina de Aguiar Pereira Marques (UA, Portugal), Dr. Duncan Paul Fagg (UA, Portugal), Dr. Igor Bdikin (UA, Portugal), Dr. Gonzalo Guillermo Otero Irurueta (UA, Portugal), Dr. Gil Alberto Batista Gonçalves (UA, Portugal)</p>		
9:30-10:15	<p style="text-align: right;">Session: New Materials and Advanced Materials CHAIRS: Prof. Dr. Paula Alexandrina de Aguiar Pereira Marques, Prof. Dr. António Manuel de Bastos Pereira</p> <p>Plenary Lecture Prof. Dr. Philip LeDuc Planes, Trains, Automobiles....and Cells? <i>Institut Departments of Mechanical Engineering, Biomedical Engineering, Computational Biology, and Biological Sciences Carnegie Mellon University, USA</i></p>		
10:15-11:00	<p>Plenary Lecture Prof. Dr. Yuri Dekhtyar Prethreshold electron emission to characterize nanostructured objects. <i>Biomedical Engineering and Nanotechnology Institute, Riga Technical University, Riga, Latvia</i></p>		
11:00-11:30	Coffee break (Complexo Pedagógico)		
	Auditorium 1: Anf. 23.1.7 (Complexo Pedagógico)	Auditorium 2: Anf. 22.3.2 (DEM)	Auditorium 3: José Grácio (DEM)
	<p>Session: New Materials and Advanced Materials CHAIRS: Prof. Dr. Philip LeDuc, Dr. Gonzalo Guillermo Otero Irurueta</p>	<p>Session: Micro / Nano Materials CHAIRS: Prof. Dr. Yuri Dekhtyar, Dr. Gil Alberto Batista Gonçalves</p>	<p>Session: Mechanical Engineering CHAIRS: Prof. Dr. António Manuel de Bastos Pereira, Prof. Dr. António Manuel Godinho Completo</p>
11:30-12:00	<p>Keynote talk Dr. Dmitry Karpinsky (I16) Crystal structure of co-doped BiFeO₃ ceramics near the phase boundary regions <i>National Research University of Electronic Technology "MIET", 124498 Moscow, Russia; Scientific-Practical Materials Research Centre of NAS of Belarus, 220072 Minsk, Belarus</i></p>	<p>Keynote talk Prof. Dr. Salam J.J. Titinchi (O29) Graphene-Based Porous Adsorbents for CO₂ Capture <i>Department of Chemistry, University of the Western Cape, Cape Town, South Africa</i></p>	<p>Keynote talk Prof. Dr. Ezddin Hutli (I14) The Relation between the Material Mechanical Properties and the Behaviour in the Fluid-Solid Structures Interaction <i>Department of Thermohydraulics, Centre for Energy Research, Hungarian Academy of Sciences, Budapest, Hungary; Institute of Nuclear Techniques (INT) of the Budapest University of Technology and Economics (BME), Hungary; Faculty of Mechanical Engineering, Department of Energy Engineering Techniques, Budapest University of Technology and Economics (BME), Hungary</i></p>



12:00-12:30	<p>Keynote talk Dr. Indrani Coondoo (I12) An investigation on the impact of the synthesis routes on the electrical properties of lead-free ceramics <i>Department of Physics & CICECO, University of Aveiro, Portugal</i></p>	<p>Keynote talk Dr. Andrey Kovalskii (I13) Hollow BN spherical nanoparticles: synthesis and applications <i>Laboratory of Inorganic Nanomaterials, National University of Science and Technology "MISiS, Leninsky prospect 4, Moscow, 119049, Russian Federation</i></p>	<p>Surface Engineering/Coatings Ana Antelava (O25) Development of repellent surfaces <i>London South Bank University, 103 Borough Rd, London SE1 0AA, United Kingdom</i></p>
12:30-14:00	Lunch (UA restaurant)		
14:00-14:45	<p>Auditorium 1: Anf. 23.1.7 (Complexo Pedagógico)</p> <p>Plenary Lecture Prof. Dr. Vincent Ball From prebiotic chemistry to materials science: deposition of aminomalonitrile based films <i>Université de Strasbourg. Faculté de Chirurgie Dentaire. 8 rue Sainte Elizabeth. 67000 Strasbourg. France</i></p> <p style="text-align: right;">Session: Biomaterials CHAIRS: Dr. Duncan Paul Fagg, Dr. Igor Bdikin</p>		
14:45-15:30	<p style="text-align: right;">Session: New Methods of Modeling Properties Materials CHAIRS: Dr. Duncan Paul Fagg, Dr. Igor Bdikin</p> <p>Plenary Lecture Prof. Dr. Vladimir Bystrov Modeling of the Piezoelectric and Pyroelectric properties of the ferroelectric composites based on the polyvinylidene fluoride (PVDF) with graphene and graphene oxide layers and fibers <i>Inst. Mathematical Problems of Biology, Keldysh Institute of Applied Mathematics RAS, Pushchino, Moscow region, Russia</i></p>		
15:30-16:00	Coffee break (Complexo Pedagógico)		
	<p>Auditorium 1: Anf. 23.1.7 (Complexo Pedagógico)</p> <p>Session: New Materials and Advanced Materials CHAIRS: Prof. Dr. Salam J.J. Titinchi, Dr. D. Pukazhselvan</p>	<p>Auditorium 2: Anf. 22.3.2 (DEM)</p> <p>Session: New Methods of Modeling Properties Materials CHAIRS: Prof. Dr. Herbert Kliem, Prof. Dr. Vladimir Bystrov</p>	<p>Auditorium 3: José Grácio (DEM)</p> <p>Session: Mechanical Engineering CHAIRS: Prof. Dr. Vítor António Ferreira da Costa, Prof. Dr. Marco Paulo Soares dos Santos</p>
16:00-16:30	<p>Keynote talk Prof. Dr. Neeraj Panwar (I11) Magnetization reversal and low temperature magnetocaloric effect in rare-</p>	<p>Keynote talk Dr. José Coutinho (I4) Electronic structure calculations of solids, surfaces and nanostructures.</p>	<p style="text-align: center;">Materials Forming</p> <p>Olesya Fedchenko (O14) STUDY THE INFLUENCE OF THE PRE-FINISH GAUGES FORM ON THE EFFECTIVENESS OF THE GROOVES FILLING IN THE</p>



	<p>earth orthochromites: Impact of co-doping Department of Physics, School of Physical Sciences, Central University of Rajasthan, Bandarsindri-305817, Ajmer, Rajasthan-INDIA</p>	<p><i>13N & Department of Physics, University of Aveiro, Campus Santiago, 3810-193, Portugal</i></p>	<p>FINISHING PASS OF REINFORCING STEEL ROLLING <i>Karaganda state industrial university, 101400, Republic avenue 30, Temirtau, Kazakhstan</i></p>
16:30-17:00	<p>Dr. Hanna S. Abbo (O31) Organo functionalised core shell magnetic nanomaterial as adsorbent for aqueous heavy metals removal <i>Department of Chemistry, University of Western Cape, Cape Town, South Africa. Department of Chemistry, University of Basrah, Iraq</i></p>	<p>Keynote talk Dr. Leon Avakyan (O7) Atomic Structure of Multicomponent Metallic Nanoparticles From Extended X-ray Absorption Fine Structure Spectroscopy <i>Southern Federal University, Rostov-on-Don, Russia</i></p>	<p>Manufacturing Processes and Mechanical Engineering Prof. Dr. Boutahari Said (O22) Comparison between linear and nonlinear tolerance analysis of flexible assembly taking into account spot welding effects <i>High School of Technology of Fez, University sidi mohamed ben abdellah B.P 2626 –Route d’Imouzzar, 30000 Fez, Morocco</i></p>
17:00-17:30	<p>Dr. Dina I. Bakranova (O4) SYNTHESIS OF SILICON CARBIDE FILMS BY MAGNETRON SPUTTERING <i>Kazakh-British Technical University, Kazakhstan</i></p>	<p>Dr. Budhendra Singh (O10) First Principle study on Structural, Electrical, Optical and Mechanical properties of GaSe_{1-x}S_x solid solution (x = 0,0.25,0.5,0.75,1) <i>TEMA, Department of Mechanical Engineering, University of Aveiro, Portugal</i></p>	<p>Hafsa ATIK (O11) A new tolerance analysis approach for deformable assemblies: an industrial case study <i>High School of Technology of Fez, University sidi mohamed ben abdellah B.P 2626 –Route d’Imouzzar,30000 Fez,Morocco</i></p>
17:30-18:00	<p>Monika Nehra (O38) Structural Studies of Metal-Organic Frameworks for Selective Adsorption of Hazardous Contaminants from Aqueous Solutions <i>Guru Jambheshwar University of Science and Technology, Hisar-Haryana, 125001, India</i></p>	<p>Keynote talk Dr. Ekaterina Paramonova (O6) Magnetic iron substitutions in hydroxyapatite: density functional study <i>Institute of Mathematical Problems of Biology, Keldysh Institute of Applied Mathematics, RAS, Pushchino, 142290, Russia</i></p>	<p>Low Dimension Structures / Mechanical Engineering Abdelkadir Belhadj (O41) Free vibration investigation of single walled carbon nanotubes with rotary inertia <i>Computational Mechanics Laboratory, Department of Mechanical Engineering, Faculty of Technology, University of Tlemcen, Tlemcen, Algeria</i></p>
18:00-18:30	<p>Chimaine FEUDJIO TSAGUE (O30) Surface modification of polyethylenimine coated magnetic nanoparticles in water treatment <i>Department of Chemistry, University of the Western Cape, Cape Town, South Africa</i></p>		



11 July 2019

2 nd International Conference on Nanomaterials Science and Mechanical Engineering		2nd International Conference of TEMA: Mobilizing Projects		
9:00-9:45	<p>Auditorium 1: Anf. 23.1.7 (Complexo Pedagógico)</p> <p style="text-align: right;">Session: Nanotechnology CHAIRS: Dr. Duncan Paul Fagg, Dr. Igor Bdikin</p> <p>Plenary Lecture Prof. Dr. Nikolai Sobolev Modification of perpendicular magnetic tunnel junctions by ion irradiation <i>Physics Department & i3N, University of Aveiro, 3810-193 Aveiro, Portugal; National University of Science and Technology "MISIS", 119049 Moscow, Russia</i></p>		Auditorium 3: José Grácio (DEM)	
9:45-10:30	<p style="text-align: right;">Session: New Methods of Modeling Materials Properties CHAIRS: Dr. Duncan Paul Fagg, Dr. Igor Bdikin</p> <p>Plenary Lecture Prof. Dr. Herbert Kliem A Novel Model for Ferroelectric Imprint in P(VDF-TrFE) <i>Institute of Electrical Engineering Physics, Saarland University, Building A5 1, 66123 Saarbuecken, Germany</i></p>			
10:30-11:00	Coffee break (Complexo Pedagógico)			
	<p>Auditorium 1: Anf. 23.1.7 (Complexo Pedagógico)</p> <p>Session: Biomaterials CHAIRS: Prof. Dr. Vincent Ball, Prof. Dr. Herbert Kliem</p>		<p>Auditorium 2: Anf. 22.3.2 (DEM)</p> <p>Session: Powder Metallurgy CHAIRS: Prof. Dr. António Manuel de Bastos Pereira, Prof. Dr. Fernando José Neto da Silva</p>	
11:00-11:30	<p style="text-align: center;">Molecular Modelling of Bio-nanostructures</p> <p>Keynote talk Prof. Dr. V. S. Bystrov (I2) Piezoelectric and ferroelectric properties of various amino acids and dipeptides structures: molecular modeling and experiments <i>Institute of Mathematical Problems of Biology, Keldysh Institute of Applied Mathematics, RAS, 142290 Pushchino, Moscow region, Russia</i></p>		<p>Keynote talk Prof. Dr. HAMİT ÖZKAN GÜLSOY (O12) Influence of Niobium additions on sintering behaviors and mechanical properties of injection molded 420 stainless steel powder <i>Marmara University, Technology Faculty, Metallurgy and Materials Eng. Dep., 34722 Istanbul, Turkey</i></p>	



11:30-12:00	<p align="center">Composites, Biomaterials</p> <p>MOUGHAOU FATIHA (O9) Removal of Methylene Blue Dye by Adsorption Using Alginate–Clay–Activated Carbon nanobiocomposite <i>Biomolecular and Organic Synthesis Laboratory, Faculty of Science Ben M'sik, University Hassan II of Casablanca. Morocco</i></p>	<p align="center">Session: Nanotechnology</p> <p>Dr. Deepa Kummatummal Govindan (O18) Photocatalytic degradation of methylene blue under visible light using Cu₂ZnSnS₄ film made of nanoparticle ink <i>Interdisciplinary Centre for Energy Research, Department of Instrumentation and Applied Physics, Indian Institute of Science, Bangalore, India</i></p>	<p align="center">Auditorium 3: José Grácio (DEM)</p> <p align="center">2nd International Conference of TEMA: Mobilizing Projects</p>
12:00-12:30	<p><i>Keynote talk</i></p> <p>Prof. Dr. Münir Taşdemir (O1) Mechanical properties of polypropylene bio composites with sea weeds <i>Marmara University, Technology Faculty, Metallurgy and Materials Eng. Dep., Istanbul, 34722, Turkey</i></p>	<p>Dr. Nimisha Kaippamangalath (O27) Nonlinear Optical and Mechanical Features of Conjugated Polymer Nanocomposites <i>Organic Nano Electronic Group, Department of Materials Engineering, Indian Institute of Science Bangalore, India</i></p>	
12:30-14:00	Lunch		
	<p>Auditorium 1: Anf. 23.1.7 (Complexo Pedagógico)</p> <p>Session: Biomaterials CHAIRS: Prof. Dr. Herbert Kliem, Prof. Dr. Vincent Ball</p>	<p>Auditorium 2: Anf. 22.3.2 (DEM)</p> <p>Session: Nanotechnology CHAIRS: Prof. Dr. Nikolai Sobolev, Dr. Gonzalo Guillermo Otero Irurueta</p>	
14:00-14:30	<p align="center">Biomaterials</p> <p><i>Keynote talk</i></p> <p>Dr. Pavel Zelenovskii (I15) Chirality-dependent self-assembly of diphenylalanine microtubes <i>Department of Physics & CICECO–Aveiro Institute of Materials, University of Aveiro, 3810-193 Aveiro, Portugal; School of Natural Sciences and Mathematics, Ural Federal University, 620000 Ekaterinburg, Russia</i></p>	<p>Kapil Faliya (O17) Charge Oscillations in PEO from Surface Potential by KPFM <i>Institute of Electrical Engineering Physics, Saarland University, Germany</i></p>	
14:30-15:00	<p>Mariia Likhodeeva (O34) DNA-noble metal nanoparticles complexes for biomedical applications <i>Saint Petersburg State University, Russia, Saint-Petersburg</i></p>	<p><i>Keynote talk</i></p> <p>Dr. Olena Okhay (I9) Utilizing reduced graphene oxide for harvesting / storage energy <i>TEMA, Department of Mechanical Engineering, University of Aveiro, Portugal</i></p>	
15:00-15:30	<p align="center">Sensor Materials, Biomaterials</p> <p>Miguel Reis (O26) Thin film functionalization for engineering of biologically active selective sensor surface</p>	<p align="center">Low Dimension Structures</p> <p><i>Keynote talk</i></p> <p>Prof. Dr. Sergey Bozhko (O36) STM lithography at MoO₂/Mo(110) surface <i>Institute of Solid State Physics RAS, Russia</i></p>	



	<i>MacDiarmid Institute for Advanced Materials and Nanotechnology, Department of Electrical and Computer Engineering, University of Canterbury, Christchurch, 8140, New Zealand</i>		
15:30-16:00	Gul Sirin Ustabasi (O19) Determining the impact of aging on the bacterial toxicity of Zn nanoparticles <i>Health Services Vocational School of Higher Education, T. C. Istanbul Aydın University, Sefakoy Kucukcekmece, 34295, Istanbul, Turkey</i>		
16:00-18:00	Poster session (Complexo Pedagógico)		
20:00-22:00	Conference Dinner		



12 July 2019

2nd International Conference on Nanomaterials Science and Mechanical Engineering		2nd International Conference of TEMA: Mobilizing Projects	
	<p>Auditorium 1: Anf. 23.1.7 (Complexo Pedagógico)</p> <p>Session: Thin Films CHAIRS: Dr. Duncan Paul Fagg, Dr. Gonzalo Guillermo Otero Irurueta</p>		<p>Auditorium 2: Anf. 22.3.2 (DEM)</p> <p>Session: Composites CHAIRS: Dr. Indrani Coondoo, Dr. Gil Alberto Batista Gonçalves</p>
9:00-9:30	<p>Keynote talk Prof. Dr. Eudes Borges de Araujo (I1) Thermally activated processes and bias field effects on the electrical properties of BiFeO3 thin films <i>Department of Physics and Chemistry, São Paulo State University, 15385-000 Ilha Solteira, Brazil</i></p>		<p>Building Materials Dr. HAMDANE Hasna (O23) Mechanical and microstructural properties of geopolymeric mixtures based on not thermally treated Moroccan phosphate washing sludge: Experimental investigation of new materials as a building materials <i>University Hassan II of Casablanca, Faculty of Sciences Ben M'sik. Laboratory of Engineering and Materials. Casablanca, Morocco</i></p>
9:30-10:00	<p>Keynote talk Dr. Paula Ferreira (I5) Self-standing chitosan-based piezoelectric composite films <i>Department of Materials and Ceramic Engineering, CICECO - Aveiro Institute of Materials, University of Aveiro, 3810-193 Aveiro, Portugal; TEMA-NRD, Mechanical Engineering Department and Aveiro Institute of Nanotechnology (AIN), University of Aveiro, Aveiro, 3810-193, Portugal</i></p>		<p>Younesse HADDAJI (O20) Mechanical and microstructural investigation of Metakaolin/ phosphate washing sludge Based Geopolymers composites Reinforced with polypropylene fibers <i>Laboratory of engineering and materials LIMAT, Faculty of science Ben M'Sik, Hassan II University, Casablanca, Morocco</i></p>
10:00-10:30	Coffee break (Complexo Pedagógico)		
	<p>Session: Thin Films CHAIRS: Prof. Dr. Eudes Borges de Araujo, Dr. Gonzalo Guillermo Otero Irurueta</p>		<p>Session: Composites CHAIRS: Dr. Gil Alberto Batista Gonçalves, Prof. Dr. Paula Alexandrina de Aguiar Pereira Marques</p>
10:30-11:00	<p>Keynote talk Dr. Oleksandr Tkach (I8) Strain mediated substrate effect on the properties of polar dielectric thin films <i>Department of Materials and Ceramic Engineering, CICECO – Aveiro Institute of Materials, University of Aveiro, Aveiro, 3810-193, Portugal</i></p>		<p>Dr. Maryam Salimian (O40) Synthesis and characterization of Ni/rGO nanocomposite: from nickel nanoclusters to homogeneously distributed discrete nickel nanoparticles <i>TEMA, Department of Mechanical Engineering, University of Aveiro, Portugal</i></p>
			Auditorium 3: José Grácio (DEM)



11:00-11:30	<p>Katarzyna Mituła (O3) Multi(alkenyl)functionalized silsesquioxanes as potential polysiloxanes modifiers <i>Adam Mickiewicz University in Poznan, Umultowska 89C, 61-614 Poznan, Poland</i></p>	<p>Martina Kocijan (O28) Synthesis of TiO₂-rGO nanocomposites as photocatalysts for the degradation of methylene blue dye in water <i>Department of Materials, Faculty of Mechanical Engineering and Naval Architecture University of Zagreb, Ivana Lučića 1, 10000 Zagreb, Croatia</i></p>	<p>Auditorium 3: José Grácio (DEM)</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">2nd International Conference of TEMA: Mobilizing Projects</p>
11:30-12:00	<p>António Fróis (O5) DLC coatings for better orthodontics alloys performance <i>CEMMPRE-DEM, Universidade de Coimbra, Pólo II, Rua Luís Reis, 3030-788, Coimbra, Portugal</i></p>	<p>Oumaima JAMAL EDDINE (O8) Synthesis and characterization of phosphate glass fibers: mechanical and luminescence properties <i>University Hassan II, F. S. Ben M'sik, Laboratory LIMAT, Boulevard Cdt Driss Harti, BP.7955, Ben M'sik - Casablanca - Morocco</i></p>	
12:00-12:30		<p>Talha Baig (O16) Synthesis and characterization of gold nanoparticles immobilized on vinyl modified sepiolite <i>The City School, Capital Campus, Islamabad, Pakistan</i></p>	
12:30-14:00	Lunch		
	<p>Session: Thin Films CHAIRS: Dr. Paula Ferreira, Dr. Oleksandr Tkach</p>	<p>Session: Nanotechnology CHAIRS: Dr. Isabel Maria Alexandrino Duarte, Prof. Dr. Neeraj Panwar</p>	
14:00-14:30	<p>Dr. Mourad Mebarki (O13) Physical properties of Fe_{1-x}Cu_x films electrodeposited on porous and non-porous silicon <i>Centre de Recherche en Technologie des Semi-conducteurs pour l'Energétique (CRTSE), 2, Bd Frantz Fanon, BP 140 Alger 7- Merveilles 16038, Algeria</i></p>	<p>Keynote talk Dr. Andrei Kovalevsky (I10) Oxide thermoelectrics: redox tuning of the functional properties <i>CICECO – Aveiro Institute of Materials, Department of Materials and Ceramic Engineering, University of Aveiro, Portugal</i></p>	
14:30-15:00	<p>Keynote talk Prof. Dr. Sergey Bozhko (I7) Dynamic of molecules rotation in monolayer C60 film. <i>Institute of Solid State Physics RAS, Russia</i></p>	<p>Dr. Niloufar Raeis-Hosseini (O37) Reconfigurable Metamaterial Perfect Absorber <i>Imperial College London, Department of Electrical and Electronic Engineering, South Kensington, London, SW7 2BT, UK</i></p>	
15:00-15:30	<p>Prof. Dr. Aleksandr Bagmut (O21)</p>	<p>Prof. Dr. Musaab ZAROG (O35)</p>	



	<p>Crystal growth modes and crystallization kinetics of amorphous films according to transmission electron microscopy “in situ” <i>National Technical University “Kharkiv Polytechnic Institute”, NTU “KhPI” 2, Kyrpychova sr., 61002, Kharkiv, Ukraine</i></p>	<p>Sizing Electrode and its effect on performance of a microactuator <i>Department of Mechanical and Industrial Engineering, College of Engineering, Sultan Qaboos University, P.O. Box 33, Al-Khod, Muscat, 123, Oman</i></p>	<p>Auditorium 3: José Grácio (DEM)</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">2nd International Conference of TEMA: Mobilizing Projects</p>
15:30-16:00	Coffee break (Complexo Pedagógico)		
	<p>Session: Thin Films CHAIRS: Prof. Dr. Sergey Bozhko, Dr. Duncan Paul Fagg</p>	<p>Session: Nanotechnology CHAIRS: Dr. Denis Alikin, Dr. Igor Bdikin</p>	
16:00-16:30	<p style="text-align: center;">Low Dimension Structures Laser Processing</p> <p>Dr. Georgiy Shakhgildyan (O32) Femtosecond laser processing of Ag/CdS doped oxide glasses <i>Mendeleev University of Chemical Technology of Russia, 9 Miusskaya sq., Moscow, Russia</i></p>	<p>Keynote talk Dr. Maciej Wojtaś (I3) Strong piezoelectricity in Pirydyl-Alanine based hybrid crystals. <i>Faculty of Chemistry, University of Wrocław, 14 Joliot-Curie, 50-383 Wrocław, Poland</i></p>	
16:30-17:00	<p style="text-align: center;">New Energy Materials</p> <p>Keynote talk Dr. D. Pukazhselvan (I6) High capacity hydrogen storage: current developments and future perspectives. <i>TEMA, Department of Mechanical Engineering, University of Aveiro, Portugal</i></p>	<p>Alexander Abramov (O34) Local Electric-Field Induced Phase and Domain Transformations in (1-x)BiFeO₃-BaTiO₃ systems <i>School of Natural Sciences and Mathematics, Ural Federal University, Ekaterinburg, Russia</i></p>	
17:00-17:30	<p style="text-align: center;">Hydrogen and Fuel Cell Science</p> <p>Francisco J. A. Loureiro (O39) Proton conductivity in BCY10 in nominally dry conditions <i>TEMA, Department of Mechanical Engineering, University of Aveiro, Portugal</i></p>	<p style="text-align: center;">Environmental Friendly Materials, Composites</p> <p>Prof. Dr. Shaista Taimur (O15) Influence of synthesis parameters on polyamidoxime chelating nanohybrid by radiation induced graft polymerization and emulsion graft polymerization for copper (II) uptake <i>Balochistan University of Information Technology, Engineering and Management Sciences, Baleli, Quetta, Pakistan; Department of Metallurgy and Materials Engineering, Pakistan Institute of Engineering and Applied Sciences, PO Nilore, Islamabad, Pakistan</i></p>	
17:30-18:00	<p>Auditorium 1: Anf. 23.1.7 (Complexo Pedagógico)</p> <p>Conference Closing Ceremony</p>		



Poster session, 16:00-18:00, 11 July

P1	XPS, FTIR and photoelectron emission spectroscopies to analyze nanocapacitor silicon nitride nano layered structures Mindaugas Andrulevičius, Liga Avotina, Yuri Dekhtyar, Gennady Enichek, Marina Romanova, Evgeny Shulzinger, Hermanis Sorokins, Sigitas Tamulevičius, Aleksandr Vilken, Aleksandr Zaslavski <i>Kaunas University of Technology, K. Donelaičio g. 73, Kaunas 44249, Lithuania; University of Latvia, Raiņa blvd 19, LV-1586, Riga, Latvia; Riga Technical University, LV1658, 1 Kalku str, Riga, Latvia; Joint-Stock Company ALFA RPAR, Ropazu str 140, LV-1006, Riga, Latvia</i>
P2	Ferroelectric domain wall motion in lead-free BST thin films M.S. Afanasiev, G.V. Chucheva, D.A. Kiselev <i>Fryazino branch of the Kotel'nikov Institute of Radioengineering and Electronics of Russian Academy of Sciences, Vvedensky Square 1, Fryazino, Moscow region, Russia; Department of Materials Science of Semiconductors and Dielectrics, NUST "MISIS"</i>
P3	Development of magnetic nanoparticles for use in conjunction with radiofrequency heating for greener processes Duaa Raja, Javier Fernandez Garcia, Ali Hassanpour, Jason Ho <i>University of Leeds, Leeds, LS2 9JT, UK; South University of Science and Technology of China, 1088 Xueyuan Ave, Nanshan, Shenzhen, Guangdong, China</i>
P4	Optimizing Citral-loaded Lipid Nanoparticles using a 2² Experimental Factorial Design Zielinska, A., Dias-Ferreira, J., Ferreira, N.R., Silva, A.M., Nowak, I., Souto, E.B. <i>Faculty of Pharmacy, University of Coimbra, Coimbra, Portugal; Faculty of Chemistry, Adam Mickiewicz University in Poznań, Poland; University of Trás-os-Montes and Alto Douro, Portugal; Centre for Research and Technology of Agro-Environmental and Biological Sciences (CITAB-UTAD); CEB - Centre of Biological Engineering, University of Minho, Campus de Gualtar 4710-057 Braga, Portugal</i>
P5	Lipid Nanomaterials for the Targeting of Triamcinolone Acetonide to Retinal Müller Cells in vitro Dias-Ferreira, J., Zielinska, A., Silva, A. M, Sanchez-Lopez, E., Garcia, M. L., Souto, E. B. <i>Department of Pharmaceutical Technology, Faculty of Pharmacy, University of Coimbra, Portugal; Department of Faculty of Chemistry, Adam Mickiewicz University in Poznań, Poland; School of Life and Environmental Sciences (ECVA), University of Trás-os-Montes and Alto Douro, Portugal; Centre for Research and Technology of Agro-Environmental and Biological Sciences (CITAB-UTAD), Quinta de Prados; 5001-801 Vila Real, Portugal; Department of Pharmacy, Pharmaceutical Technology and Physical-Chemistry, Faculty of Pharmacy, University of Barcelona, Spain; Institute of Nanoscience and Nanotechnology (IN2UB), Faculty of Pharmacy, University of Barcelona, Spain; CEB - Centre of Biological Engineering, University of Minho, Campus de Gualtar 4710-057 Braga, Portugal</i>
P6	Di- and tetrasubstituted double-decker silsesquioxanes as building blocks for molecular and macromolecular frameworks Julia Duszczak, Beata Dudzic, Michał Dutkiewicz <i>Faculty of Chemistry, Adam Mickiewicz University in Poznan, Umultowska 89B, 61-614 Poznan, Poland; Centre for Advanced Technologies, Adam Mickiewicz University in Poznan, Umultowska 89c, 61-614 Poznan, Poland; Adam Mickiewicz University Foundation, Rubiez 46, 61-612 Poznan, Poland</i>
P7	SYNTHESIS OF NANOSTRUCTURES AND FILMS USING HIGH-TEMPERATURE VACUUM ELECTRIC FURNACE K.Kh. Nussupov, N.B. Beisenkhanov, S. Keiinbay, D.I. Bakranova, A.A. Turakhun, A.A. Sultan <i>Kazakh-British Technical University, Kazakhstan</i>
P8	The structures of non-IPR isomers 29 (C2), 31 (Cs), 38 (D2) and 39 (D5d) of fullerenes C40 Khamatgalimov A.R., Idrisov R.I., Kamaletdinov I.I., Kovalenko V.I. <i>Arbuzov Institute of Organic and Physical Chemistry, FRC Kazan Scientific Center, Russian Academy of Sciences, 8 Arbuzova str., 420088 Kazan, Russia; Kazan National Research Technological University, 68 K. Marx str., 420015, Kazan, Russia</i>



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P63	Unusual magnetic properties of BLFO - KBr nanocomposites Olena M. Fesenko, Andrii Yaremkevich, Dmitry V. Karpinsky, Maxim V. Silibin, Vladimir V. Shvartsman, and Anna N. Morozovska <i>Institute of Physics, NAS of Ukraine, 46, pr. Nauky, 03028 Kyiv, Ukraine; Scientific-Practical Materials Research Centre of NAS of Belarus, 220072 Minsk, Belarus; National Research University of Electronic Technology "MIET", 124498 Moscow, Russia; Institute for Materials Science and Center for Nanointegration Duisburg-Essen (CENIDE), University of Duisburg-Essen, 45141, Essen, Germany</i>
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P68	Radiation-induced point defects transformation in irradiated lithium fluoride crystals after their mechanical fragmentation A. P. Voitovich, V. S. Kalinov, A. N. Novikov, L. P. Runets <i>B. I. Stepanov Institute of Physics of the National Academy of Sciences of Belarus, 68-2 Nezavisimosti ave., Minsk, 220072, Belarus</i>
P69	Development of 3D electrospun PCL/Chitosan scaffolds for musculoskeletal tissue engineering Andreia Leal Pereira, André F. Girão, Ângela Semitela, Samuel Guieu, Paula A.A.P. Marques, Maria Helena V. Fernandes <i>CICECO - Aveiro Institute of Materials, Department of Materials and Ceramic Engineering, University of Aveiro, 3810-193 Aveiro, Portugal; TEMA – Centre for mechanical technology and automation, Department of Mechanical Engineering, University of Aveiro, 3810-193 Aveiro, Portugal; QOPNA & LAQV-REQUIMTE, Department of Chemistry, University of Aveiro, 3810-193 Aveiro, Portugal; The Discoveries Centre for Regenerative and Precision Medicine, Headquarters at University of Minho, Avepark, 4805-017 Barco, Guimarães, Portugal</i>