

Program of EUROINVENT ICIR Conference
ORAL PRESENTATION

Palace of Culture Iasi – Voievozilor Hall

DAY 1 – THURSDAY MAY 16	
9.00	Participants registration
11.00	EUROINVENT Opening Ceremony
12.00	ICIR Opening Ceremony
	KEYNOTE SPEAKER SESSION Chairman: Prof. Dr. Petrica VIZUREANU Prof. Dr. Andriana SURLEVA
12.10	Keynote Speaker – Mihaly REGER <i>Defect Free Steel Continuous Casting, the Role of Mathematical Modelling</i>
12.40	Invited Speaker – Rodica Mariana ION <i>Investigations of the Corvins' Castle towers - an Artistic, Architectural and Technological Achievement of the 15th - 17th Centuries</i>
13.15	LUNCH - Restaurant COSMOPOLITAN - Hotel Ramada
15.00	Session 1 Chairman: Prof. Dr. Lidia BENEĂ Prof. Dr. Rodica Mariana ION
15.00	Tamás RÉTI - <i>A Probabilistic Kinetic Model for Predicting Grain Growth Processes in Alloys</i>
15.15	Adriana SAVIN - <i>Ultrasound methods for determining the influence of yttrium in Mg-0.5Ca-xY</i>
15.30	Vitalie COBZAC - <i>Assessment of Ionic and Anionic Surfactants Effect on Demineralized Osteochondral Tissue</i>
15.45	Alexandru PETRE - <i>Comparative Study of Experimental Approaches to Increase the Availability of Phytochemicals using Gamma Radiation</i>
16.00	Anca RAVOIU - <i>Influence of Different Concentration of Hydrogen Peroxide on the Corrosion Behaviour of Ti-6Al-4V Alloy Immersed in Physiological Solution</i>
16.15	Rozina STEIGMANN - <i>Nondestructive testing methods for assessment of biomaterials based on Titanium alloys</i>
16.30	Laurentiu DRĂGUS - <i>Effect of the Inflammatory Conditions and Albumin Presence on the Corrosion Behavior of Ti6Al4V Alloy in Saliva Biological Solution</i>
16.45	Salmabanu LUHAR - <i>Impact of Volcanic Ash on Geopolymerization of Volcanic Ash Based Geopolymer Composites: A Review</i>
17.00	COFFEE BREAK
17.15	Session 2 Chairman: Prof. Dr. Mihail TITU Prof. Dr. Ionelia VOICULESCU
17.15	Lidia BENEĂ - <i>Wear-Corrosion Response of Cerium Oxide Reinforced Cobalt Hybrid Composite Layers in Biological Solution</i>
17.30	Maria Dolores ROMERO-SANCHEZ - <i>Microencapsulated PCMs for Thermal Energy Storage in the Range 300-500°C: Pilot-Testing</i>
17.45	Avram NICOLAE - <i>Obsolescence of Metal Materials and Products</i>
18.00	Muhammad Muaz Husaini ROSLI - <i>Study of Unattended Child Presence Detection System for ASEAN NCAP Safety Rating</i>
18.15	Mihai-Alexandru FLOREA - <i>Extraction of Pesticide Residues from Plant Extracts Using Regenerative MCM41 Mesoporous Materials</i>
18.30	Aurelian BUZĂIANU - <i>Considerations Regarding WC-Cermet Depositions by HVOF and ESD Techniques Used for Coating Steel Components of Geothermal Turbines</i>
19.00	End of Conference Day

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DAY 2 – FRIDAY MAY 17	
9.00	Session 3 Chairman: Prof. Dr. Adriana Savin Prof. Dr. Brandusa Ghiban
9.00	Invited Speaker – Mohammad FIRDAUS ABU HASHIM <i>Characteristics of Geopolymer Filled Glass Reinforced Epoxy Composite Using Filament Winding Technique</i>
9.20	Kamrosni Abdul RAZAK - <i>A Review on Synthesis and Factors of Controlling the Formation of Titanium Dioxide (TiO₂) Thin Film via Sol-Gel Method</i>
9.35	Marzieh Javadi TOGHCHI - <i>Thermal Resistance and Water Vapor Permeability of 3D Interlock Woven Fabrics Containing Silver Multifilament Yarns</i>
9.50	Liliana Maria NICULA - <i>Study to Achieving a Class of Road Concrete with Slag Powder Addition at the Cement Mass and Substitution with Artificial Aggregates</i>
10.05	Cosmin RUS - <i>Electric Cars as Environmental Monitoring IoT Network</i>
10.20	Marcin NABIALEK - <i>Proces of magnetising bulk amorphous alloys Fe_{43+x}CO_{29-x}y₈B₂₀ (x= 0 lub 5)</i>
10.35	Nicoleta SIMIONESCU - <i>Corrosion Behavior of Ni/Wc Nano-Structured Composite Layers Synthesized by Electrochemical Method</i>
10.50	Ioana Nicoleta NEGRU - <i>A New Approach on 3D Scanning-Printing Technologies for Medical Applications</i>
11.05	Simona RIUREAN - <i>Issues regarding Visible Light Data Communication in Industrial Environments</i>
11.20	Marius RISTEIU - <i>3D Modeling and Simulation of Human Upper Limb</i>
11.35	Marius Leonard OLAR - <i>Augmented Reality in Postindustrial Tourism</i>
11.50	Laurentiu MARDARE - <i>Marine Corrosion Behavior of EH 36 Steel in the Black Sea Coast</i>
12.05	COFFEE BREAK
12.30	Session 4 Chairman: Prof. Dr. Andriana SURLEVA Prof. Dr. Mohammad FIRDAUS ABU HASHIM
12.30	Invited Speaker – Brândușa GHIBAN <i>Brown band characteristics of Aluminum cladding alloys</i>
12.50	Arun Fabian PANAITE - <i>Hand Rehabilitation - A Gaming Experience</i>
13.05	Mihnea Ion MARIN - <i>Experimental Determination the Coefficient of Restitution</i>
13.20	Irina Elena CIOBOTARU - <i>Advanced treatment solutions intended for the reuse of livestock wastewater in agricultural applications</i>
13.35	Laura Elena GEAMBAZU - <i>Al_{0.5}CrCoFeNi high entropy alloy for Geothermal Environment</i>
13.50	Cristina Ileana COVALIU - <i>Nanomaterials applied for heavy metals removal from wastewater</i>
14.05	Mihail Aurel ȚÎȚU - <i>Optimization of the Objective Function –Surface Quality by End-Milling Dimensional Machining of Some Aluminum Alloys</i>
14.20	Andreea BARAITARU - <i>The influence of the technological process of rice husk ash synthesis over its structure</i>
14.35	Ioana Corina MOGA - <i>Improved biofilm carriers for fungal exploitation in wastewater treatment</i>
14.50	Mulat ABTEW - <i>3D warp interlock p-aramid fabrics for composite reinforcement and ballistic vest applications: Effect of yarn density on its formability characteristics</i>
15.05	Mihail Aurel ȚÎȚU - <i>Modeling the Machined Surface Quality of an Aluminum Alloy Using the Active Experiment Type</i>
15.30	Conference Closure and Awards Ceremony
19.00	Cocktail dinner - Restaurant – HOTEL CIRIC

Program of EUROINVENT ICIR Conference
POSTER PRESENTATION

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DAY 1 – THURSDAY MAY 16

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14.00	Poster Session Chairman: Prof. Dr. Nicanor CIMPOESU Assoc. Prof. Dr. Darya ILIEVA
P1.	Ana-Maria GALAN - Investigation of Microalgae Loaded Ceramic Beads for Application as Biostimulants in Agriculture
P2.	Irina Elena CHICAN - Surface Properties in Surfactant Systems Containing Amino Acid-Based Surfactants
P3.	Pierantonio de LUCA - Treatment of Industrial Slag Zinc Ferrite by Zeolite Sludge
P4.	Paola FOGLIA - Brackish Water Treatment with Carbon Nanotubes
P5.	Carlo SICILIANO - ¹ H and ¹³ C NMR Investigation of Oils Extracted from Exotic Fruits
P6.	Carlo SICILIANO - ¹ H NMR Quantification of Cannabidiol (CBD) in Industrial Products Derived from Cannabis Sativa L. (Hemp) Seeds
P7.	Robert-Alexandru DOBRE - Spectroscopic Investigation of Transparent Polylactic Acid
P8.	Daniela TARNITA - Experimental Study of the Treadmill Inclination Influence on the Flexion Angles of the Lower Limbs Joints
P9.	Lăcrămioara-Raluca BIVOL - Metallographic analysis of icon oklad - St. Great Martyr George
P10.	Ștefan-Ioan GHICA - In vitro Corrosion Behavior of Ti-Mo-W Alloy in Artificial Saliva
P11.	Vlad Dragoș DIACONESCU - Design of a Monitoring, Alert and Control System for Indoor Exhibition Spaces
P12.	Claudia MILEA - The effect of the precious metal addition in chemical composition of the non precious dental alloys on their microstructure characteristics
P13.	Elena GROSU - Performing and characterization of biodegradable magnesium alloys type Mg-Zn-Zr-Ag coated with hydroxyapatite
P14.	Viorel Mircea DRAGAN - Determination of air quality in a petroleum extraction area
P15.	Viorel Mircea DRAGAN - Assessment of soil quality in an area with hydrocarbon exploitation activities
P16.	Marius Nicolae BABA - Investigation of Mode II Interlaminar Fracture Toughness of Lignocellulosic Laminated Specimens – an Experimental Approach
P17.	Mirela Maria CODESCU - Co-based magnetic nanostructured material for high frequency applications
P18.	Ștefan TUDORAN - Effects of chemical composition on the microstructural characteristics of Ti-Nb-Ta-Zr alloys
P19.	Victor GEANTĂ - Obtainment and Characterisation of High Entropy Alloys Used for Medical Applications
P20.	Ionelia VOICULESCU - New Refractory High Entropy Alloys
P21.	Andrei-Mihai BACIU - Influence of Process Parameters for Selective Laser Melting on the Roughness of 3D Printed Surfaces in Co-Cr-W Dental Alloy Powder
P22.	Mihai-Adrian BERNEVIG-SAVA - Considerations on the Surface Roughness of SLM Processed Metal Parts and the Effects of Subsequent Sandblasting
P23.	Cristian-Andrei MICU - Electrical and Thermal Characteristics of Nitinol Wires for Linear Heat Detectors
P24.	Constantin ARVINTE - Imposed Technical Requirements and Materials Used in Manufacture of Firefighter Gloves
P25.	Raluca-Maria FLOREA - Microstructure and properties of high entropy alloy coating

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12.00	Poster Session Chairman: Prof. Dr. Nicanor CIMPOESU Assoc. Prof. Dr. Darya ILIEVA
P1.	Ionuț BRATOSIN - Recovery of LiCoO ₂ Compound from Cathodic Paste of Waste LIBs, by Ultrasonography in Lactic Acid Solution
P2.	Cristian STESCU - Machining of Thermal Sprayed Coatings – A Case Study for Self-fluxing Powder
P3.	Ovidiu MOCĂNIȚA - Investigation of Thermal Coating Influence on the Fire Resistance of a Multi-layer Material
P4.	Dumitru Doru BURDUHOS-NERGIS - Ecologic Geopolymer Based on Thermoelectric Power Plant Ash and Glass Powder from Recycled Wastes for Applications in the Field of Buildings Materials and Obtaining Procedure
P5.	Veneta STEFANOVA - Assessment of the soil formation process in reclaimed terrains in Bulgarian copper mine
P6.	Victor APOSTOL - Accumulation of Stress Induced Martensite in Fe _{43.5} Mn ₃₄ Al _{15±x} Ni _{7.5∓x} Shape Memory Alloys
P7.	Madalin-Constantin GURAGATA - Particularities of forming behavior for INCONEL 718 SUPERALLOY
P8.	Dragoș-Teodor BRAN - Heat treatment behavior of alternator shafts steels
P9.	Elena-Raluca BACIU - SEM/EDS analyses on shape memory alloys subjected to electrochemical corrosion
P10.	Radu-Armand HARAGA - Influence of surface roughness and current intensity on the adhesion of high alloyed steel deposits - obtained by thermal spraying in electric arc
P11.	Maria-Iuliana MARCUS - Recycling of CRT glass in plastering mortars
P12.	Andreea Mihaela MONCEA - Metakaolin - waste glass geopolymers. The influence of hardening conditions on mechanical performances
P13.	Carmen TOCIU - Advanced treatment solutions intended for the reuse of livestock wastewater in agricultural applications
P14.	Ion-Aurel PERIANU - Experimental research on reconditioning transmission axes by MAG robotic welding
P15.	Darya ILIEVA - Estimation of soil and tailing dump toxicity: development and validation of a protocol based on bioindicators and ICP-OES
P16.	Adrian SIMION - Contributions on the fire performance assessment of ETICS systems
P17.	Alexandru PASCU - Laser cladding reconditioning of injection moulding
P18.	Mohammad Firdaus Abu HASHIM - Advanced Glass Reinforced Epoxy Filled Fly Ash Based Geopolymer Filler: Preparation and Characterization on Piping Materials
P19.	Mohamad Anuar KAMARUDDIN - Extraction of Nitrogen, Phosphorus and Potassium from Food Waste under Elevated Temperature by Heat Induced Bath Method
P20.	Norizah Abdul KARIM - Graphitization of Oil Palm Trunk Waste at Lower Heating Temperature
P21.	Paul CIUBOTARIU-ANA - Investigation of Thermal Degradation and Electrical Properties of Polyamide Materials Versus Polybismaleimide Materials for Fire-Fighters Helmets
P22.	Vasile Filip SOPORAN - <i>Assessment Methodology and Coverage of Developments in Production Processes of Castings in Engineering Training Programs</i>
P23.	Vasile Filip SOPORAN - <i>Engineering of Circular Economy and Good Management of Industrial Material Resources</i>