

**Program of EUROINVENT ICIR Conference 2020**  
**ORAL PRESENTATION**

*Virtual Meeting - ZOOM*

DAY 1 – THURSDAY MAY 21	
10.00	<b>ICIR Opening Ceremony</b>
KEYNOTE SPEAKER SESSION	
10.15	<b>Keynote Speaker – Joseph KOST</b> <i>Nanoparticles and Ultrasound for Targeted Therapies</i>
10.45	<b>Keynote Speaker – Mohd Arif Anuar Mohd SALLEH</b> <i>Recent Studies on the Influence of Substrates and Microalloying Additions on the Primary Intermetallic Growth of Pb-Free Solder Joints</i>
SESSION 1	
11.15	<b>Titu Aurel - Mihail, Pop Alina-Bianca</b> - CNC End Milling Process Parameters Optimization on Aluminium Alloy by using Taguchi and Anova Methods
11.30	<b>Attila Zsolt KENEZ</b> - Effect of Surface Cleaning Methods on Seam Quality of Laser Beam Welded Mixed Joints
11.45	<b>Laura HROSTEA</b> - Improving the Photovoltaic Performance of PBDB-T-SF Thin Films by Chemical Sensitization
12.00	<b>Romisuhani AHMAD</b> - Comparison Study on Microstructure Properties of Kaolin Based Geopolymer Ceramics with Addition of UHMWPE under Different Sintering Condition
12.15	<b>Constantin BEIU</b> - The Influence of Thermal Factors on the Protection Characteristics of Electro-Insulating Materials
12.30	<b>Warid Wazien Ahmad ZAILANI</b> - Effect of Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) on the Properties of Fly Ash Based Geopolymer
12.45	<b>Iuliana COCEAN</b> - Laser induced intensified coating with Reactive Blue 21 on hemp fibers
BREAK – INDIVIDUAL LUNCH	
INVITED SPEAKER SESSION 1	
15.00	<b>Invited Speaker – Hanaa HACHIMI</b> <i>Hybridization of Bio-Inspired Metaheuristics for Optimization Applications</i>
SESSION 2	
15.20	<b>Titu Aurel - Mihail, Pop Alina-Bianca</b> - The Relationship Between the Cutting Process Parameters and the Surface Roughness during the Aluminum Machining
15.35	<b>Irina-Elena CIOBOTARU</b> - Improvement of microplastics separation from synthetic samples – a key step for their analysis
15.50	<b>Brăduț Alexandru IONESCU</b> - A Review Regarding the Use of Natural and Industrial By-products in the Production of Geopolymer Binders
16.05	<b>Florina-Diana DUMITRU</b> - Assessing the contamination of the Dambovita River through heavy metal indices
16.20	<b>Elvira GREBENIȘAN</b> - Influence of TiO <sub>2</sub> Nanoparticles on the Performance of Cementitious Materials – Experimental Results
16.35	<b>Cornelia BAERA</b> - Development of cement-based materials enriched with polymeric coated reactive grains as long term promoter of matrix continuous hydration
16.50	<b>Stefan-Corneliu STOICA</b> - Reducing power consumption in smart monitoring systems with BLE wireless protocol
17.05	<b>Marcin NABIALEK</b> - Magnetic properties of composites based on amorphous iron alloys produced with the use of a non-magnetic binder and covered with high temperature varnish
End of Conference Day	

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DAY 2 – FRIDAY MAY 22	
10.00	<b>Start of second day of the Conference</b>
INVITED SPEAKER SESSION 2	
10.00	<b>Invited Speaker – Tünde Anna KOVÁCS</b> <i>The Microstructure Changing As A Function Of The Electroacoustic Effect Under Ultrasonic Welding Process</i>
10.20	<b>Invited Speaker – Shayfull Zamree Abd RAHIM</b> <i>Potential of Metal Epoxy Composite (MEC) as Hybrid Mold Insert in Rapid Tooling Application</i>
SESSION 3	
10.40	<b>Rodica-Mariana ION</b> - <i>Instrumental techniques for architectural heritage materials</i>
10.55	<b>Wan Mastura WAN IBRAHIM</b> - <i>The Effects of Solid to Liquid Ratio on Fly Ash-Based Lightweight Geopolymer</i>
11.10	<b>Iuliana COCEAN</b> - <i>Landfill waste fire effects over town areas under rain waters</i>
11.25	<b>Nur Syahirah Mohamad Zaimi</b> - <i>Void Distributions in Sn-3.0Ag-0.5Cu (SAC305) Composite Lead Free Solder Subjected to Thermal Ageing Using Acoustic Micro Imaging Technique</i>
11.40	<b>Alexandru COCEAN</b> - <i>Copper sulfate pentahydrate target behavior during pulsed laser deposition to produce dichroic coatings for beam splitters</i>
11.55	<b>Adrian Lazarescu</b> - <i>Experimental Investigation on the Development Geopolymer Paving Blocks Using Romanian Local Raw Materials</i>
12.10	<b>Oleksandr IVASHKO</b> - <i>A model of the functional organization of an art-cluster based on a revitalized industrial enterprise</i>
12.25	<b>Anamaria Cătălina MIRCEA</b> - <i>Designing Concrete with Self-Healing Properties Using Engineered Cementitious Composites as a Model</i>
12.40	<b>Bianca Iulia CIUBOTARU</b> - <i>Comparative study on the characteristics of silicone synthetic elastomers used in dental impression techniques</i>
12.55	<b>Luminița SCRIPCARIU</b> - <i>On the Security of the Software Defined Network Used by a Smart City</i>
13.10	<b>Andra-Teodora NEDELICU</b> - <i>Oceanographic research and recordings made on the north-west coast of the black sea</i>
CONFERENCE CLOSURE AND AWARDS CEREMONY	

**POSTER SESSION**

is available at:

<http://www.euroinvent.org/conference/program/poster-session/>

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**POSTER PRESENTATION**

P1.	<b>Nadezhda CHERNOVA</b> et al. - Recycling of Aqueous Phase from Hydrothermal Liquefaction and Municipal Wastewater by Microalgae
P2.	<b>János KÖNYA</b> et al. - Improving tribological properties of biomedical 3D printed Titanium alloy with surface treatment
P3.	<b>Ana-Maria GALAN</b> et al. - An Integrated Approach for Biotechnological Treatment of Dairy Wastes and Bioactive Compounds Production
P4.	<b>Anca PAULENCO</b> et al. - Microalgae Cultivation in an Open System Integrated in Biogas Installations
P5.	<b>Lăcrămioara-Raluca BIVOL</b> et al. - Studies on Two Icons Oklads with the Representation of St. Great Martyr George
P6.	<b>Ileana Mariana MATES</b> et al. - New Materials and Processes Developed For Cranioplasty
P7.	<b>Denisa ANCA</b> et al. - Experiments Regarding the Possibility of Blocking the Diffusion of Sulfur at Casting-Mould Interface in Order to Limit the Graphite Degeneration in the Surface Layer of Compacted Graphite Cast Irons Pieces
P8.	<b>Silvia Tudorița GAROFALIDE</b> et al. - Study of Physico-Chemical Characteristics Of Some Major Urban Air Pollutants
P9.	<b>Florin PREDĂ</b> et al. - Influencing Factors on Premature Fracture of Cast Iron Support of Electric Motor in Aluminium Rolling Line
P10.	<b>Eugenia T. IACOB TUĐOȘE</b> - Stability of Emulsions prepared by Vapor Condensation
P11.	<b>László TÓTH</b> et al. - PVD Coating Effects for the Surface of Plasma Nitrided Dievar Tool Steel
P12.	<b>Mircea Cristian PANTILIMON</b> et al. - Novel Trip Steel – Characterization, Impact Test And Comparison With Existing Trip Steels
P13.	<b>Claudia Ionela TARCEA</b> et al. - Photocatalytic degradation of methylene blue dye using TiO <sub>2</sub> and Fe <sub>3</sub> O <sub>4</sub> /SiO <sub>2</sub> /TiO <sub>2</sub> as photocatalysts
P14.	<b>Irina Elena CHICAN</b> et al. - Corrosion Protection of Metallic Surfaces in Peroxide – Surfactant Formulations
P15.	<b>Yulia IVASHKO</b> et al. - Rational And Aesthetic Principles Form-Making In Traditional Chinese Architecture As The Basis Of Restoration Activities
P16.	<b>Raluca-Maria FLOREA</b> - Transfer Processes at the Manufacture of Metal Matrix Composite Materials
P17.	<b>Sophia V. KISELEVA</b> et al. - Influence of primary power source on heat-insulating material choice for autonomous telecom unit container
P18.	<b>Mihail-Marius VESCAN</b> et al. - Intelligent Communication, Specific to the Engineering of Materials, under the Conditions of Ensuring the Circular Economy and Technological Digitization
P19.	<b>Mihail-Marius VESCAN</b> et al. - Considerations Regarding the Recalibration of the Manufacture of Castings from the Perspective of the Development of the Circular Economy
P20.	<b>Ovidiu MOCĂNIȚA</b> et al. - Expanded Foam Glass - An Application for Fire Resistant Multilayer Materials
P21.	<b>Liliana Maria NICULA</b> et al. - Methods for Assessing the Frost-thaw Resistance of Road Concrete Used in our Country and at European level
P22.	<b>Nicoleta SIMIONESCU</b> et al. - The Effect of H <sub>2</sub> O <sub>2</sub> and Lactic Acid addition in Biological Saliva on the Corrosion Behaviour of 304L Stainless Steel
P23.	<b>Vasile BASLIU</b> et al. - Influence of the Imposed Parameters on XRD Patterns of Electrochemically Top-Down Obtained Nanoporous Al <sub>2</sub> O <sub>3</sub> on Al1050 Al
P24.	<b>Liliana Maria NICULA</b> et al. - The Influence of Blast Furnace slag for Abrasion Resistance in Road Concrete
P25.	<b>Eusebiu TOADER</b> et al. - Contributions to the Development of a Low-speed Gadolinium Actuator System
P26.	<b>Veronica LUCA</b> et al. - A New Material for Repairs Obtained from Crushed Stone and Special Cements
P27.	<b>Ioana Corina MOGA</b> et al. - Cellulosic and Tannins Containing Wastewater Treatment Using MBBR Technology and Fungal Strains
P28.	<b>Mihaela – Andreea MONCEA</b> et al. - Handy and Sustainable Method of Nano-Ca(OH) <sub>2</sub> Synthesis Used in Conservation and Consolidation Works
P29.	<b>Veneta STEFANOVA</b> et al. - Possibilities for Use of Vermiculite in Recultivation of Embankments Obtained as a Result of the Deposit of Mining Waste from the Extraction of Copper Ores
P30.	<b>Alina ORTAN</b> et al. - Comparison of total phenolic content, antioxidant activity and extraction yield from Apium graveolens waste using unconventional extraction methods
P31.	<b>Horatiu DRAGNE</b> et al. - Experimental Research on the Behaviour of the Systems for Ventilated Facades, Exposed to the Fire Action
P32.	<b>Noorhazlinda Abd RAHMAN</b> et al. - Simulation of pedestrian walking through angled-corridors for evacuation behaviour study
P33.	<b>Zul ILHAM</b> et al. - Optimized Conversion of Nyamplung Seeds Oil to Biodiesel Using Box-Behnken Response Surface Methodology (RSM)
P34.	<b>Abdul Mutalib LEMAN</b> et al. - Reliable Method and Multistage Process Involved in the Production of Activated Carbon Based on Raw Material- A Systematic Review
P35.	<b>Liliana Rozemarie MANEA</b> et al. - Progress in Electrospun Nanofibers for Air Filtration
P36.	<b>Syafiq MUZARPAR</b> et al. - Recycling of Plastic throughout Pyrolysis and Distillation Process to Recover an Alternative Fuel Sources
P37.	<b>Liliana Rozemarie MANEA</b> et al. - Polyester Dyeing and its Environmental Impact
P38.	<b>Iuliana STAN</b> et al. - The influence of heat accumulation coefficient and casting temperature on the macro and micro-structure of solidification