



INTERNATIONAL SCIENTIFIC CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING

9-10 November 2023, Debrecen, Hungary

09:30 – 11:30	Session POLYMER ENGINEERING (Metallographic Laboratory, 1 st floor, room E.120.)
Chairman:	Gábor BELLÉR , University of Debrecen, Hungary
Secretary:	Márton HOMOLYA , University of Debrecen, Hungary
09:30 - 09:45	Noémi LÁSZLÓ, Péter FICZERE <i>The issues of surface roughness measurement in case of plastic vehicle parts produced by FFF additive manufacturing</i>
09:45 - 10:00	István NEMES-KÁROLY, Gábor SZEBÉNYI <i>3D scanning of medical implant inserts</i>
10:00 – 10:15	Yitbarek Firew MINALE, Kálmán MAROSSY, Andrea MAJOR, Annamária POLYÁKNÉ KOVÁCS <i>Investigating the mechanical properties of PVC based ternary blends</i>
10:15 – 10:30	Szabolcs KRIZSMA, András SUPICZ <i>Comprehensive measurement and simulation of prototype injection moulds</i>
10:30 – 10:45	Avodeji AKERELE, Kinga TAMÁSI, Awogbemi OMOJOLA <i>Study on the mechanical properties of natural rubber mixtures plasticized with selected plant oil</i>
10:45 – 11:00	Ákos GÖRBE, István HALÁSZ-KUTASI, Tamás BÁRÁNY <i>Thermoplastic elastomers from recycled ground tyre rubber</i>
11:00 – 11:15	Djebbara BENZERGA, Abdelkader HADDI <i>Effects of external defects on the behavior and damage of PHED tubes</i>
11:15 – 11:30	Monther ALMASHAL, Mundher Alsaadi DOOKHI <i>Free vibration of composite rectangular plates with internal crack</i>
09:30 – 11:45	Session MATERIALS SCIENCE AND TECHNOLOGY II. (SMARTMAT Material Technology Laboratory, 4 th floor, room E.414.)
Chairman:	István BUDAI , University of Debrecen, Hungary
Secretary:	Márton LÉVAI , University of Debrecen, Hungary
09:30 - 09:45	Zoltán WELTSCH <i>Development of bonding technology for composite materials with high energy density surface treatments</i>
09:45 - 10:00	István BUDAI, András SZOBOSZLAI <i>Continuous ultrasonic foaming for floating dosage forms</i>
10:00 – 10:15	Branko SKORIC, Pál TEREK, Lazar KOVACEVIC, Vladimir TEREK, Zoran BOBIC <i>Surface modification with ions to improve properties of tools</i>
10:15 – 10:30	Gábor GYARMATI, Ádám PÁLÓCZI, Dorottya SOMFAI, Tibor FERENCZI, Zoltán KÉRI <i>Analysis of different commercial solid fluxes used for the melt treatment of casting aluminum alloys</i>
10:30 – 10:45	György THALMAIER, Mircea NASUI, Niculina A. SECHEL, Csilla KÁDÁR, Ioan VIDA-SIMITI <i>Cold sintering of Zinc powders for the manufacturing of porous Zinc materials</i>
10:45 – 11:00	Levente BOGOLY, Tamás MENDE, György FEGYVERNEKI, Gábor GYARMATI <i>The influence of different grain refining fluxes and master alloy addition on the melt quality of an aluminum casting alloy</i>
11:00 – 11:15	Aidi MOUSSA, Yamina HARNANE, Bordja LYES <i>Integrating phase change materials and nanoparticles for advancing building energy efficiency</i>
11:15 – 11:30	Afrah AWAD <i>Nanoparticles application in solar energy</i>
11:30 – 11:45	Saida BOUYEGH, Samira TLILI <i>Improvement of biodegradable magnesium-based alloys properties by Ca-P based bioceramics biomimetic deposition</i>
11:00 – 12:00	poster session (1 st floor, Gallery of the Faculty of Engineering)
11:30 – 14:00	lunch (Restaurant, Faculty of Engineering)
12:30 – 12:45	ISCAME group photo (meeting at the Aula of the Faculty of Engineering)