Sustainable Mobility and Transportation Symposium 2026

Poster Section · Thursday, 8 October 2026 · 12:15–14:30 · Management Campus, First Floor Hall · 21 posters

No.	Title and authors
P01	**Demonstration of manual refinishing procedures in modern automotive coatings** *Krisztián Kun, Erika Varga*
P02	**Experimental Assessment of Autogenous TIG-Welded Dissimilar Thin High-Strength Steel Sheets** *Valentin Endre Szabó, Krisztián Kun*
P03	**Investigation of the Weldability of Galvanized HCT600X Dual-Phase Steel Sheets using Gas Metal Arc Welding with Controlled Material Transfer** *Dávid István Kis*
P04	**Feasibility of Capacitor-Based Emergency Power for Tethered UAVs in a 1-DOF Testbed** *Barnabás Kiss, Miklós Kuczmann, Áron Ballagi*
P05	**Tool-Material Limitations and Carbide-Tool Development for Friction Stir Welding of S355JR Structural Steel** *Zsolt Ferenc Kovács*
P06	**Effect of repeated recycling on the mechanical properties and microstructure of sintered 4605 metal injection molded steel** *György Ledniczky, Zoltán Weltsch*
P07	**Impact of Ignition Sequence Changes on Performance Parameters of a 600 cc Inline Four-cylinder Four-stroke Engine** *László Kovács, Dániel Medgyesi*
P08	**Experimental Validation of a Wheel-Tire Contact Force Estimation System for Vehicles** *Dániel Medgyesi, Botond Szigeti*
P09	**Combined Effects of Dilution and WC Content on the Microstructure and Hardness of CoCrFeNi-Based Composite Layers Produced by Laser Metal Deposition** *Ferenc Hareancz, Gergely Juhász*
P10	**Investigation of microstructure and mechanical properties of Inconel 718 alloy produced by laser metal deposition** *Gergely Juhász, Ferenc Hareancz*
P11	**Design-Oriented Model for Estimating Current Density in Oil-Cooled End Windings** *Jakub Súkeník, Marek Toman, Antonín Krmíček, Pavel Novotný, Radoslav Cipín*
P12	**Comparative Evaluation of Serpentine Flow Channel Design and GDL Porosity Effects in PEM Fuel Cells** *János Kelemen, Zoltán Kurják, Erika Varga*
P13	**The Effect of Angle of Inclination and Geometric Slenderness on the Load-Bearing Capacity of Corrugated Board Boxes** *Renáta Pidl, Lajos Fehér*
P14	**Vibration Analysis of Parting-Off Tools** *János Líska, Gábor Kónya, Zsolt Kovács, Csaba Görög, Ladislav Morovic, Ivan Buransky, Maros Dubnicka, Roman Bedus*
P15	**Thermomechanical Modeling of Automotive Rubber Components under Cyclic Loading** *Veronika Tomposné Szüle, Balázs Pere*
P16	**Design and Optimization of a Lightweight Motorsport Driveshaft Using Finite Element Analysis** *Norbert Szabó, Dániel Vaczkó*
P17	**Influence of femtosecond laser-induced surface structures on the adhesion performance of pultruded GFRP composites** *Dániel Vaczkó, Zoltán Weltsch, Róbert Keresztes*
P18	**Mechanical Performance of Heat-Set Threaded Inserts in FDM-Printed PLA Components** *Kornél László, Brigitta Fruzsina Szívós, Vivien Nemes*
P19	**Evaluation of Dimensional Precision and Repeatability in MSLA Resin Printing** *Brigitta Fruzsina Szívós, Vivien Nemes*
P20	**Investigation of Hardness Changes in Sheet Materials Induced by Different Cutting Technologies** *Szabolcs Szalai, Szabolcs Ádám Vitéz*
P21	**Effect of Printing Orientation on the Mechanical and Geometrical Properties of FDM-Printed Specimens Manufactured from PLA** *Szabolcs Szalai, Attila Nagy, József Beke*