

Name	Title of the presentation	Session	Session time	Conference Day
Munther ABD UL ZAHRA DOOKHI	Finite properties of composite pipes with cracks	Polymer Engineering	Friday 9:00am to 11:30am	November 8
Arden KHAJAT ARDULAH	A novel air-flow electrifying setup for controlling fiber distribution and morphology	Polymer Engineering	Friday 1:00pm to 5:00pm	November 8
Anas ABU AL-HAJAJA	Enhancing control strategies for mini high bay warehouse: evaluating methods for voltage conversion and encoder pulse detection	Manufacturing Science	Friday 1:00pm to 5:00pm	November 8
Fadia AHMED NAJI	Investigations on ball and magneto-rheological (BEMR) finishing of Ti64 alloy for enhancement surface quality	Engineering Optimization	Thursday 2:30pm to 6:00pm	November 7
Ayodeji Usman AKERELE	Thermal properties of ceramic foam glass sintered from industrial waste incinerator slags using sic as foaming agent	Energy Industry	Friday 1:00pm to 5:00pm	November 8
Farar AL AQBARAWI	Optimise model-based parameter tuning of genetic algorithm for the shape optimization of automotive rubber bumpers	Engineering Optimization	Thursday 2:30pm to 6:00pm	November 7
Arif AL-AWANLI	Investigation of theoretical energy intensity of sonohydrogen	Engineering Optimization	Thursday 2:30pm to 6:00pm	November 7
Goga ALEXANDRU-SILVIU	AI-driven workflow optimization: revolutionizing mechanical engineering project management	Artificial Intelligence in Engineering Problems	Friday 9:00am to 11:30am	November 8
Rashwan ALKENTAR	Patient specific hip implant topology optimization with lattice structures	Biomechanics	Friday 1:00pm to 5:00pm	November 8
Sabah KHAJALI	Implementing lean tools to improve a production line in a given company	Industrial Processes	Thursday 2:30pm to 6:00pm	November 7
Masar ALSIGAR	Complex optimization of automatic radial and axial feed	Engineering Optimization	Thursday 2:30pm to 6:00pm	November 7
Sulaiman AL-TIMIMI	Effect of reinforcement on mechanical properties of iron metal matrix composites	Materials Science	Thursday 2:30pm to 6:00pm	November 7
Ali AMININEJAD	A new flow line approach for modeling the deformation field and texture in FALPE	Materials Science	Thursday 2:30pm to 6:00pm	November 7
Aymen ADOUTI	Influence of layer thickness on the melting behavior of NiTi nano-multilayers	Materials Science	Friday 9:00am to 11:30am	November 8
Sándor APÁTI	Dynamic modelling possibilities of jigsaws	Machine and Product Design	Friday 1:00pm to 5:00pm	November 8
Atilla ARADI	AI (machine learning) - driven approaches for enhancing underwater acoustic noise analysis for electrical boat propulsions	Artificial Intelligence in Engineering Problems	Friday 9:00am to 11:30am	November 8
Baksa ATTILA	Determination of von Mises stresses in elliptical cross sections	Applied and Theoretical Mechanics	Friday 9:00am to 11:30am	November 8
Haniyeh AZIMI	Severe plastic deformation of magnesium alloys	Materials Science	Friday 9:00am to 11:30am	November 8
Erika BAKSÁNE VARGA	Integrating robotics, logistics, and programming in stem education: preparing students for industry 4.0	Material Handling and Logistics	Thursday 2:30pm to 6:00pm	November 7
György BARKÓ	Agricultural aspects of moor/marss soil simulants for machinery tests	Machine and Product Design	Thursday 2:30pm to 6:00pm	November 7
Attila BATA	Investigation of the recyclability of automotive plastic nanocomposites	Polymer Engineering	Friday 9:00am to 11:30am	November 8
Gabriel BATIN	Characterization of alumina filament used for thermoplastic extrusion	Materials Science	Thursday 2:30pm to 6:00pm	November 7
Miklós BERCEZLI	Adhesive technology research and industry development trends 2025	Materials Science	Friday 1:00pm to 5:00pm	November 8
Gábor József BÉRES	Welded blanks and forming limit diagrams	Materials Science	Friday 1:00pm to 5:00pm	November 8
Bárdi BODNÁR	Frequency response optimization of an industrial robot arm	Engineering Optimization	Thursday 2:30pm to 6:00pm	November 7
Sándor BODZÁS	Analysis of grinding technology of spiroid worm on a classical grinding machine	Manufacturing Science	Friday 1:00pm to 5:00pm	November 8
Adrian BOGHEAN	Viscoelastic properties of UV-curable resins for photopolymerization-based additive manufacturing	Polymer Engineering	Friday 9:00am to 11:30am	November 8
Gábor BOHÁCS	Integrating material handling machines into an ai-focused framework	Material Handling and Logistics	Friday 1:00pm to 5:00pm	November 8
Zoltán BRATU	High pressure die casting thermal solutions	Materials Science	Thursday 2:30pm to 6:00pm	November 7
István BUDAI	Design and development of a production line for the bicycle industry to switch to eco-friendly packaging material	Industrial Processes	Thursday 2:30pm to 6:00pm	November 7
Levente BUDNÁK	A comparative analysis of the direct and backpropagation methods for determining GTN parameters	Engineering Optimization	Thursday 2:30pm to 6:00pm	November 7
László CSANYI	Investigation of the heat transfer and power consumption of a mixing tank	Industrial Processes	Thursday 2:30pm to 6:00pm	November 7
Krisztián DEÁK	Analysis of ECG signals with wavelet transform	Machine and Product Design	Thursday 2:30pm to 6:00pm	November 7
Lilla DEBRECENI	Integration of machine learning in additive manufacturing for material extrusion and powder bed fusion	Manufacturing Science	Friday 1:00pm to 5:00pm	November 8
Óliver DÉNES	Improvement of physical security through continuous authentication based for SCADA and DCS systems in industrial automation and contro	Industrial Processes	Thursday 2:30pm to 6:00pm	November 7
Comfort DEON NKALANGA	Comparative analysis of plasma and tig welding on mildsteel bars	Materials Science	Friday 1:00pm to 5:00pm	November 8
Nour El Imane DJIMAOUI	Additive manufacturing to rebuild worn FSW tools	Manufacturing Science	Friday 1:00pm to 5:00pm	November 8
István DOMOKOS	Development of a specialised wear testing machine for hot metal coated cultivator tines	Machine and Product Design	Thursday 2:30pm to 6:00pm	November 7
Károly EBRÁHEM	Applying of 3D numerical techniques in the medical field (intervertebral lumbar disc prostheses)	Biomechanics	Thursday 2:30pm to 6:00pm	November 7
Ayvan ELEMAM	Effect of compacting pressure and sintering temperature on properties of powder metallurgy 316L stainless steel	Materials Science	Thursday 2:30pm to 6:00pm	November 7
Omakome ENAROESHA	First principle calculation on molybdenum properties	Materials Science	Friday 9:00am to 11:30am	November 8
Ibissam ENNAMOUSH	CAD modeling and surface roughness measurement of the gear pair in the wire bending machine	Manufacturing Science	Friday 1:00pm to 5:00pm	November 8
Ayvan FAELZ	Enhancing winglet aerodynamics for sustainable aviation through computational analysis	Fluid Mechanics	Friday 9:00am to 11:30am	November 8
Soliman FAYAL	Numerical analysis of cracking at the nozzle junction in a distillation column	Applied and Theoretical Mechanics	Friday 9:00am to 11:30am	November 8
Daniel FEKETE-SZÜCS	Designing and building a working model of a drive for elevators or cranes	Machine and Product Design	Thursday 2:30pm to 6:00pm	November 7
Péter FICZERE	15 or 14.2	Material Handling and Logistics	Friday 1:00pm to 5:00pm	November 8
Csaba GÁSPAR	The localized method of fundamental solutions for the stokes equations	Applied and Theoretical Mechanics	Friday 9:00am to 11:30am	November 8
Gábor GÁR	Effects of HDPE-g-MMT on mechanical properties of recycled PET/HDPE blends	Polymer Engineering	Friday 9:00am to 11:30am	November 8
Syed Musa Hassan GILLANI	Effects of infills on the mechanical properties of a sample	Engineering Optimization	Thursday 2:30pm to 6:00pm	November 7
Akos GÖRBE	The effect of trans-polyoctenamer compatibilizer on polyethylene and ground tire rubber blends	Polymer Engineering	Friday 9:00am to 11:30am	November 8
Gábor GYARMATI	On the interactions of intermetallic compounds and oxide phases in liquid aluminum alloys	Materials Science	Thursday 2:30pm to 6:00pm	November 7
Gábor GYULIA KISS	Performance testing of a pcm-based thermal energy storage device	Industrial Processes	Thursday 2:30pm to 6:00pm	November 7
Marwen HABACCHI	Assessment of single point incremental forming of pure aluminum alloy sheets	Manufacturing Science	Friday 1:00pm to 5:00pm	November 8
Géza HAIDEGGER	Harmonized international processes presently needed for the sustainable digitization of the manufacturing industry	Manufacturing Science	Friday 1:00pm to 5:00pm	November 8
Ferenc HARENCAZ	The effect of gap width on laser metal deposition welding of stainless steel sheets	Materials Science	Friday 1:00pm to 5:00pm	November 8
László HERCÉNYI	Determination of the compressive behavior of Ti6Al4V lattice structures using FEA	Biomechanics	Friday 1:00pm to 5:00pm	November 8
KM Eughe HASSAN	Surrogate model-based parameter tuning of tabu search algorithm for the shape optimization of automotive rubber bumpers	Artificial Intelligence in Engineering Problems	Friday 9:00am to 11:30am	November 8
Gábor HASULÓ	Safety challenges of hydrogen wells	Energy Industry	Friday 1:00pm to 5:00pm	November 8
Lars Christian HERZBACH	BMW Manufacturing Hungary Kft. - examples of laboratory work	Materials Science	Thursday 2:30pm to 6:00pm	November 7
Óliver HORVÁK	Securing remaining useful life using adaboost algorithm	Artificial Intelligence in Engineering Problems	Friday 9:00am to 11:30am	November 8
Krisztián HRICZÓ	Numerical study of entropy generation in ferrofluid flow with heat and mass transfer	Fluid Mechanics	Friday 9:00am to 11:30am	November 8
Emöke IMRE	Some notes on the use of an unsaturated constitutive law for sands	Materials Science	Friday 9:00am to 11:30am	November 8
Károly JÁRMAI	Creating a model to simulate harmonic injections within an industrial facility	Energy Industry	Friday 1:00pm to 5:00pm	November 8
Károly JÁRMAI	Motion enlargement at structures, literature review, application	Machine and Product Design	Thursday 2:30pm to 6:00pm	November 7
János JUHÁSZ	General Modelling of electromobility and logistics in finished product distribution	Material Handling and Logistics	Friday 1:00pm to 5:00pm	November 8
Gergely JUHÁSZ	Fabrication of multi-material tube using laser metal deposition	Materials Science	Friday 1:00pm to 5:00pm	November 8
Attila KÁLMÁN	Optimizing interbasin water transfer for sustainable energy management and multipurpose water utilization	Engineering Optimization	Thursday 2:30pm to 6:00pm	November 7
Pálma KAPITANY	Electronic design of a measuring system suitable for electromagnets	Machine and Product Design	Thursday 2:30pm to 6:00pm	November 7
Pálma KAPITANY	Numerical design of a testbench for analysing electromagnets	Machine and Product Design	Thursday 2:30pm to 6:00pm	November 7
Andreas KAPSHAMMER	Experimental and numerical analysis of hail impact on sheet moulding compounds	Polymer Engineering	Friday 9:00am to 11:30am	November 8
Attila KÁRI-HORVÁTH	Steps for the implementation of equipment operating on the principle of thermal drying for the disposal of waste water and bio-w	Machine and Product Design	Thursday 2:30pm to 6:00pm	November 7
Kristóf KATONA	Fluidization curve of a granulate in a closed loop airflow	Industrial Processes	Thursday 2:30pm to 6:00pm	November 7
János KELEMEN	Development basics of a digital twin for a fuel cell	Energy Industry	Friday 1:00pm to 5:00pm	November 8
Florian KIEHAS	Polymer toughness predictions via machine learning	Polymer Engineering	Friday 9:00am to 11:30am	November 8
Alexandra KIRI	Determination of natural frequencies with acoustic methods and their relation to residual stress	Materials Science	Thursday 2:30pm to 6:00pm	November 7
Benedécz KIS	Design of a semi-batch dividing wall column	Industrial Processes	Thursday 2:30pm to 6:00pm	November 7
Kopács KISS	Artificial Intelligence in Engineering Problems	Artificial Intelligence in Engineering Problems	Friday 9:00am to 11:30am	November 8
Péter Marcell KISS	Manufacturing and assembling the components of a mechanical seal testing bench	Materials Science	Friday 9:00am to 11:30am	November 8
Béla KONÁCS	Effect of sampling method on the result of the tensile test	Materials Science	Thursday 2:30pm to 6:00pm	November 7
Kinga Andrea KOVÁCS	Comparison of vortex identification methods through applications	Fluid Mechanics	Friday 9:00am to 11:30am	November 8
János KOVÁCSY	Computational engineering methods and their academic research and industrial applications for wide range of problems	Plenary	Friday 9:00am to 11:30am	November 8
Zsolt KÖNYVES	The application of ultrashort pulse laser beams for pattern forming on the surfaces of tool steels	Materials Science	Friday 1:00pm to 5:00pm	November 8
Benjamin Márk KÖRÖMI	Relationship between developed interfacial area ratio and adhesion of the bonded joint	Materials Science	Friday 1:00pm to 5:00pm	November 8
Sinisa KRALJEVIC	Oscillatory systems with two degrees of freedom and van der Pol coupling: Analytical approach	Applied and Theoretical Mechanics	Friday 9:00am to 11:30am	November 8
Attila KRIZICHNA	Coupled simulation approach to model the operational behaviour of prototype injection moulds	Manufacturing Science	Friday 1:00pm to 5:00pm	November 8
Ferenc KUBICEK	Evaporation models in sonochemistry	Fluid Mechanics	Friday 9:00am to 11:30am	November 8
Dániel LEDENYÁK	Improve practical usability of Ballbar machine tool verification	Manufacturing Science	Friday 1:00pm to 5:00pm	November 8
Jozsef LEJA	Teaching mechanics and metrology through laboratory exercises - stress modulus measurement using a torsional pendulum	Applied and Theoretical Mechanics	Friday 9:00am to 11:30am	November 8
Óliver LAKÓI	Influence of generative design and topology optimization on the design and manufacturing processes in additive manufacturing	Manufacturing Science	Friday 1:00pm to 5:00pm	November 8
Lóránd LŐRÁND	The effect of surface quality on dimensional measurement with CT	Manufacturing Science	Friday 1:00pm to 5:00pm	November 8
Laura MÁDI	Conditions forming blow-hole defects in castings	Materials Science	Thursday 2:30pm to 6:00pm	November 7
Zoltán MAJOR	Some examples of engineering with polymers	Plenary	Thursday 1:00pm to 2:15pm	November 7
Sándor MANÓ	Investigation of the stability of two different spondylolysis surgical technique utilising finite element simulation	Biomechanics	Friday 1:00pm to 5:00pm	November 8
Abdud Vedud MAREGA	Carbon 14	Materials Science	Thursday 2:30pm to 6:00pm	November 7
Gergő Zsolt MARTON	The effect of polycaprolactone interlayer material on the behaviour of carbon-fibre/epoxy composites	Polymer Engineering	Friday 9:00am to 11:30am	November 8
József MENYHÁRT	Investigating the feasibility of integrating electric vehicles into vehicle-to-grid systems in Hungary	Energy Industry	Friday 1:00pm to 5:00pm	November 8
Miloš MILOVANČEVIĆ	Daily release evapotranspiration monitoring system by soft computing and object-oriented approach	Artificial Intelligence in Engineering Problems	Friday 9:00am to 11:30am	November 8
Miloš MILOVANČEVIĆ	Examining oto deflated real values using adaptive neuro fuzzy inference system (ANFIS)	Artificial Intelligence in Engineering Problems	Friday 9:00am to 11:30am	November 8
Ian MOKAYA	CAD modelling and 3D scanning of the elements of the wire bending mechanical machine	Manufacturing Science	Friday 1:00pm to 5:00pm	November 8
Luca MOLNÁR	Innovative spinal implant development through additive manufacturing	Biomechanics	Friday 1:00pm to 5:00pm	November 8
Bence MOLNÁR	Understanding terrain characteristics in autonomous systems from the perspective of vehicle dynamics and agriculture	Applied and Theoretical Mechanics	Friday 9:00am to 11:30am	November 8
Dejlin Kabay MWINKEN	Some notes on the use of an unsaturated constitutive law for sands	Applied and Theoretical Mechanics	Friday 9:00am to 11:30am	November 8
Dániel NEMES	Possibilities of using ROM modeling in engineering problems	Artificial Intelligence in Engineering Problems	Friday 9:00am to 11:30am	November 8
Viktor NYESTE	Physical metallurgy aspects of the effect of squeezing during high pressure die casting	Materials Science	Thursday 2:30pm to 6:00pm	November 7
Olusunmi Oluwakayomi OKUNRINBOYE	Insights from biodegradable orthopedic screws with sponge matrix	Biomechanics	Thursday 2:30pm to 6:00pm	November 7
Winnie Abieno OINYANGO	Effect of resile on mechanical and rheological properties of HDPE	Materials Science	Thursday 2:30pm to 6:00pm	November 7
Judit PÁZMAN	Examination of reactor steel after thermal aging process	Materials Science	Friday 9:00am to 11:30am	November 8
Péter PÉCZI-KOVÁCS	Effect of high energy density surface treatment atmosphere on surface energy change	Materials Science	Friday 1:00pm to 5:00pm	November 8
Ana PETROVIC	Evaluating the limit states: a case study of a hail guard	Engineering Optimization	Thursday 2:30pm to 6:00pm	November 7
Jidko PETROVICIKJINE ANGERER	Changes in concentration of groundwater pollutants in a recultivated non-hazardous landfill with a temporary top cover layer	Materials Science	Friday 1:00pm to 5:00pm	November 8
Rabea Hussein Mohammed QASEM	Investigation of solid state dewetting of silver nanofilms	Materials Science	Friday 1:00pm to 5:00pm	November 8
Md Mazedur RAHMAN	Critical buckling and damage analysis of curved stiffened panels with cutouts on hybrid composite panels with titanium foils under uniaxial compressive loading	Applied and Theoretical Mechanics	Friday 9:00am to 11:30am	November 8
Gábor RUDZISKA	Simulation and analysis of the value stream in the field of robotic cable manufacturing using Visual Components at KUKA HU kft.	Material Handling and Logistics	Friday 1:00pm to 5:00pm	November 8
Bálint SIKTAR	Relation between the cutting force and the current consumption of the 3Dc motor in a hedge cutter	Machine and Product Design	Thursday 2:30pm to 6:00pm	November 7
Nataša SOKOLOV MILOVANČEVIĆ	Sustainable development within the framework of a circular economy	Material Handling and Logistics	Friday 1:00pm to 5:00pm	November 8
Nataša SOKOLOV MILOVANČEVIĆ	Neuro-fuzzy assessment of circular economy focusing on waste creation, recycling, renewable energy, biomass, and soil pollution	Artificial Intelligence in Engineering Problems	Friday 9:00am to 11:30am	November 8
Levente SOR	Determination of adsorbent breakthrough point by temperature measurement	Industrial Processes	Thursday 2:30pm to 6:00pm	November 7
Luboslav STRAKA	Influence of tool electrode on quality and productivity in electrical discharge machining	Manufacturing Science	Friday 1:00pm to 5:00pm	November 8
Luboslav STRAKA	Optimizing the mechanical properties of sintered carbides	Engineering Optimization	Thursday 2:30pm to 6:00pm	November 7
Márton SZABÓ	Driving torque difference and stability of operation for self-synchronizing vibrating screens	Applied and Theoretical Mechanics	Friday 9:00am to 11:30am	November 8
Gábor SZAKÁCS	Utilizing synchrotron radiation XRD during the solidification of Mg alloys	Plenary	Thursday 1:00pm to 2:15pm	November 7
János SZALAI	The technology of abrasion resistant cast iron castings	Materials Science	Thursday 2:30pm to 6:00pm	November 7
Attila SZÁNTÓ	Filtering procedure to optimize the technical data of a prototype race car	Engineering Optimization	Thursday 2:30pm to 6:00pm	November 7
Nikolett SZÁVICS	Investigation of water evaporation rate at different liquid levels	Industrial Processes	Thursday 2:30pm to 6:00pm	November 7
Benedek SZIKLAI	Development of a shear strength measuring tool and method for layered structures	Materials Science	Thursday 2:30pm to 6:00pm	November 7
Ferenc SZÓRÁRI	Loss coefficient calculations for pipe systems with numerical method	Fluid Mechanics	Friday 9:00am to 11:30am	November 8
Ahnaif TAHMID	Production parameter optimization of additive manufactured TPU part	Materials Science	Friday 9:00am to 11:30am	November 8
Ferenc TAJTI	Contact resistance testing of bonded conductive joints for use in electric vehicles	Materials Science	Friday 1:00pm to 5:00pm	November 8
Donát M. TAKÁCS	Improving discrete numerical methods for dynamics using continuous mathematical tools	Applied and Theoretical Mechanics	Friday 9:00am to 11:30am	November 8
Armen TANKOUGAST	Comparison of turbulence models in the simulation of fluid flow in corrugated channel	Fluid Mechanics	Friday 9:00am to 11:30am	November 8
György THALMAIER	On the resistivity of cold sintered Zn foams	Materials Science	Friday 9:00am to 11:30am	November 8
Levente TUGYI	Analysis of the explosion risk of dried sewage sludge	Industrial Processes	Thursday 2:30pm to 6:00pm	November 7
Bahram TURAOV	Establishing the tribo-system to study the fraction effects of lunar regoliths	Materials Science	Friday 9:00am to 11:30am	November 8
Ugona UMEH	Determination of the compressive behavior of lattice structures produced by SLA technology	Biomechanics	Friday 1:00pm to 5:00pm	November 8
Attila Károly VARGA	AI based digital image processing	Artificial Intelligence in Engineering Problems	Friday 9:00am to 11:30am	November 8
Dorottya VARGA	Investigation of miniaturized tensile test specimens manufactured by casting	Materials Science	Thursday 2:30pm to 6:00pm	November 7
Gergely VASKÓ	Simulation of the production of sintered steel gears	Materials Science	Friday 9:00am to 11:30am	November 8
Zoltán WELTSCH	Development of automotive adhesive joints with surface treatment technologies	Materials Science	Friday 1:00pm to 5:00pm	November 8
Abdulmunim Lakan YEMITAN	Impact of robotic technology in human life	Energy Industry	Friday 1:00pm to 5:00pm	November 8
Andiचा ZAIN	Review on characteristics of some thermal insulation materials for multi-layered wall	Engineering Optimization	Thursday 2:30pm to 6:00pm	November 7
Levente Béla ZUDOR	Upgrading an Amsler twin-disc measurement device to analyze railway rail head-check cracks	Machine and Product Design	Thursday 2:30pm to 6:00pm	November 7