

ICMD 2026 – Scientific and Social Programme

Venue: Hotel DUO, Prague, Czech Republic

9 September – 11 September 2026

Please note that this is a draft version of the conference programme and may be subject to further modifications.

Conference Information

Please note that the conference program may be subject to minor modifications.

All conference rooms are equipped with a computer, data projector, and presenter.

The computers run on MS Windows, and both PowerPoint and PDF formats are supported.

Presentation times are strictly limited:

- **Plenary sessions:** 20 minutes presentation + 10 minutes discussion
- **Regular sessions:** 10 minutes presentation + 5 minutes discussion

Kindly ensure that you remain within your allocated time slot, as extensions will not be possible.

The dress code for **ICMD 2026** and all conference-related events is **business casual**.

DAY 1 — Wednesday, 9 September 2026

Morning Programme

Time	Programme	Chairman:
09:00 – 10:00	Registration	
09:30 – 10:00	Coffee Break	
10:00 – 10:30	Official Opening Ceremony	
10:30 – 11:00	Rajesh Mishra - <i>Design and development of fiber based composite machine parts</i>	
11:00 – 11:30	Abraham Kabutey – <i>Utilisation of Biosystems Engineering in Machine Design by Machine Learning</i>	
11:30 – 12:00	Invited Lecture 3 – To be confirmed soon	
12:00 – 13:30	Lunch	

Parallel Sessions A, B,C & D

	SESSION A	SESSION B
Time	Chairman: R. Mishra	Chairman: A. Kabutey
13:30	Radka Jírová (CZ) <i>Numerical Analysis of Biocomposite Materials</i>	Hadi Sutanto (Indonesia) <i>Optimization of the Effect of Magnet and Stator Topology of PMG for Wind Power Application</i>
13:45	Tamer Sebaey (Saudi Arabia) <i>Influence of Manufacturing Scheme on the Mechanical Properties of Hybrid CFRP-Aluminium Sandwich Structure</i>	Vigen Arakelyan (France) <i>Design of Energy-Efficient Manipulators with Straight-Line Linkages</i>
14:00	Natthaphon Bunathuek (Thailand) <i>Performance Analysis of Cutting Fluids in MQL Milling: A Case Study of Conventional Coolant and Palm Oil</i>	Gürkan Gürdil (Türkiye) <i>Investigation of Current Deep Learning-Based Image Processing Methods and System Integration for the Developed Autonomous Harvest Robot</i>
14:15	Iwona Żabińska (Poland) <i>On the Carbon Footprint in Micromilling</i>	Marko Mumović (Montenegro) <i>Prototype of a Mandrel for Tube Welding by the FSW Process</i>
14:30	Zbigniew Matuszak (Poland) <i>On Similarity Numbers in Micromilling and Milling</i>	Marcin Matuszak (Poland) <i>Selected Factors Affecting Surface Topography Generation in Micromilling</i>
14:45 – 15:30	Coffee Break	Coffee Break
Time	SESSION C	SESSION D
	Chairman: G. Gurdil	Chairman: O. Dajbych
15:30	Karel Petr (CZ) <i>ISO 22081: A Key to More Unambiguous and Robust Technical Specifications</i>	Tomáš Gajdošík (SK) <i>Design and Experimental Validation of an Intelligent Steering Wheel for Driver Physiological Monitoring</i>
15:45	Josef Hykl (CZ) <i>Innovation of the Equipment for Testing Lock Functionality</i>	Miroslav Nagy (SK) <i>The Impact of Hybridization of Mobile Working Machines on the Installation Space and Energy Transfer</i>
16:00	Akshat Tegginamath (CZ) <i>Dynamic Loading of Flax/S-Glass Hybrid Polymer Composite Beams for Structures</i>	Vitaliy Sizonenko (CZ) <i>Electromechanical Design of the Inner Permanent Magnet Rotor</i>
16:15	Martin Sivý (SK) <i>Structural Integrity of a Fire-Damaged Distillation Column</i>	Patrik Kósa (SK) <i>Experimental Analysis of the Air Flow under a UAV</i>

16:30	Martin Baráth (SK) <i>Effect of Nozzle Temperature on the Mechanical Properties of 3D Printed Materials</i>	Robert Grega (SK) <i>Verification of the Impact of Operation on the Initiation of Bearing Failure</i>
16:45	Peter Spišák (SK) <i>Dimensional Accuracy Analysis of a Component Manufactured by Vacuum Casting Technology</i>	Lucia Žul'ová (SK) <i>Redistribution of Vibration Energy in Mechanical Drives</i>
17:00	Adam Novák (CZ) <i>Interfaces in Additively Manufactured Mechanical Systems</i>	Jozef Rédl (SK) <i>System Identification Approach in Fatigue Life Assessment</i>
17:15	Jan Kanaval (CZ) <i>Comprehensive Life Cycle Management of Bolted Joints on Rail Vehicles in Accordance with the Newly Introduced Standard ČSN EN 17976</i>	

Social Programme

19:00 – 21:00 — Dinner at Hotel DUO

DAY 2 — Thursday, 10 September 2026

Session E

Time	SESSION E	Chairman: P. Hrabě
09:00	Lubomír Pešík (CZ) <i>Control Device for Rollers of a Guide System with a Travel Rail and Rollers for a Suspended Object Carrier</i>	
09:15	Daniel Kozárik (SK) <i>Ceiling-Guided Church Entrance Gate</i>	
09:30	Matúš Vereš (SK) <i>Design of a Segmented Folding Mechanism for an Openable Glazed Interior Roof</i>	
09:45	Jan Flek (CZ) <i>Load Sharing Ratio in Spur Gears with Profile Shift</i>	
10:00	Miloš Němček (CZ) <i>Experience with the Use of the Innovated ISO 6336 (2019) Standard</i>	
10:15	Ján Šteininger (SK) <i>Experimental Comparison of Roller Bearings for Railway Applications in Accordance with STN EN 12082</i>	

10:30 – 11:15 Coffee Break

11:00 – 12:00 Meeting of the Heads of Departments

12:00 – 13:30 Lunch

Social Programme

18:00–20:00 — Gala Dinner – Vltava River Cruise by Steamboat, Dvořákovo nábřeží, molo č.12, Dvořák Embankment / Na Františku, Pier No. 12, near Na Františku Hospital, Prague 1

DAY 3 — Friday, 11 September 2026

Session F

Time	SESSION F	Chairman: Č. Mizera
09:00	Petr Hrabě (CZ) <i>Mechanical Behaviour of Ensete Ventricosum Fibres under Tensile and Time-Dependent Loading</i>	
09:15	Petr Hnízdl (CZ) <i>Experimental and FEM-Based Analysis of Natural Fiber-Reinforced PLA Filaments for FFF Applications</i>	
09:30	Pavel Srb (CZ) <i>Design of Rubber Hose Defect Testing Equipment</i>	
09:45	Vojtěch Dynybyl (CZ) <i>3D-Printed Parts in the Vehicles</i>	
10:00	Ladislav Ševčík (CZ) <i>The Issue of Calculating and Measuring the Density of Abrasive in Blasting Equipment</i>	
10:15	Eliška Cézová (CZ) <i>Virtual Reality in Education</i>	
10:30 – 11:00	Coffee Break	
11:00 – 12:00	Closing of the Conference	
12:00 – 13:30	Lunch	