

## Programme of ICMD 2023 from 12<sup>th</sup> to 14<sup>th</sup> September 2023

### 11.9.2023

17.<sup>00</sup> – 23.<sup>00</sup> Arrival, Registration  
17.<sup>30</sup> – 20.<sup>00</sup> Dinner at hotel restaurant

### 12.9.2023

7.<sup>30</sup> – 9.<sup>00</sup> Breakfast  
8.<sup>00</sup> – 10.<sup>00</sup> Arrival, Registration

#### ROOM JAVOR - Plenary Session

**10.<sup>30</sup> – 12.<sup>00</sup> Start of ICMD 2023 - Plenary Session**  
10.<sup>00</sup> – 10.<sup>10</sup> **Miroslav Trochta** - Chair of ICMD 2023: preface  
10.<sup>10</sup> – 10.<sup>20</sup> **Prof. Ladislav SEVCIK** - Introduction of the International Machine Design Association  
10.<sup>20</sup> – 10.<sup>50</sup> **Prof. Rajeshe Mishra** - Fiber Reinforced Composite Structures for Machine Component Design  
10.<sup>50</sup> – 11.<sup>20</sup> **Prof. Robert GREGA** - The Trends of Torsional Vibration Tuning  
11.<sup>20</sup> – 11.<sup>50</sup> **Dr. Patrik Sniehotta** - The Effect of Hydrogen on the Construction of Industrial Valves  
12.<sup>00</sup> – 12.<sup>30</sup> Photography  
12.<sup>30</sup> – 13.<sup>30</sup> Lunch

#### ROOM JAVOR - Machine design and Innovation (Prof. L. SEVCIK)

13.<sup>30</sup> – 15.<sup>00</sup> Presentations:  
**Abraham KABUTEY**- Evaluation of Oil Expeller Press for Processing Different Oilseeds  
**Lukáš POMPÁŠ** – Design of a Mobile Crawler with a Multi-purpose Robotic Arm  
**Rudolf MADAJ** - Innovation of additive manufacturing equipment  
**Matúš VEREŠ** - Production of an Experimental Axial Fan Based on Additive Manufacturing  
**Doc. Michal PETRU** - Approaches of Modelling of Creep of Joint Parts of Hybrid Composite for Machine Design Parts  
**Frantisek LOPOT** - Trickiness of Longitudinal Oscillation of Chain Conveyors  
15.<sup>00</sup> – 15.<sup>30</sup> **Coffee Break**

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### ROOM JAVOR - Engineering Analyses (Prof. L. KUCERA)

15.<sup>30</sup> – 17.<sup>00</sup>

Presentations:

**Jiří ZAČAL** - Flange Joints with Contact Irregularities

**David HERÁK** - Comparison of Models Describing the Mechanical Behaviour of Bulk Oilseeds Under Compression Loading

**Nesrine AMOR** - Neural Network-Particle Swarm Optimization Model for the Prediction of Comfort Evaluation of ZnO Coated Fabrics

**Oldřich DAJBÝCH** - Simple, Fast and Free Curve Fitting Using Python

**Lukáš HRUZÍK** - Comparison of Gear Shape when using different 3d printing slicer Software

17.<sup>00</sup> – 17.<sup>30</sup>

Coffee Break

### ROOM JAVOR - Experimental Methods and Measuring (Prof. S. HRCEK)

17.<sup>30</sup> – 19.<sup>00</sup>

Presentations:

**Dávid ČUCHOR** - Experimental Analyses of Tribological Properties of Surfaces of Structural Materials

**Martin HAVLÍČEK** - The use of Strain Gauging in the Development of Agricultural Machines

**Jan KANAVAL** - Overview of the Development of Methods of Experimental Testing of Fasteners and Screw Connections at the Department of Designing and Machine Parts of the Faculty of Mechanical Engineering, CTU in Prague

**Damián ČECHMÁNEK** - Experimental Verification of Material Properties of Composite Material

**Eliška CÉZOVÁ** - Experimental Measuring

19.<sup>00</sup> – 20.<sup>00</sup>

Dinner

20.<sup>00</sup> – 24.<sup>00</sup>

Wellness, free programme

## Programme of ICMD 2023 from 12<sup>th</sup> to 14<sup>th</sup> September 2023

### 13.9.2023

7.<sup>30</sup> – 9.<sup>00</sup> Breakfast

#### **ROOM JAVOR - Electromobility and other related topics (Prof. D. HERAK)**

9.<sup>00</sup> – 10.<sup>30</sup> Presentations:

**Lubos KUCERA** - Modulo - Concept of Modular Electric Vehicle

**Tomáš GAJDOŠÍK** - Light Electric Vehicle Modulo

**Róbert KOHÁR** - Design of a Composite Part for the Car Interior

**Karel PETR** - Examples of Applications of General Tolerances According to ISO 22081

**Jan FLEK** - Possibilities of determining the mesh stiffness of gearing

10.<sup>30</sup> – 11.<sup>00</sup> Coffee Break

#### **ROOM JAVOR - Machine design, Innovation and Materials (Prof. M NEMCEK)**

11.<sup>00</sup> – 12.<sup>30</sup> Presentations:

**Jakub FIAČAN** - Structural Design of the Lifting and Tilting Mounting Frame

**Muhammad Tayyab NOMAN** - Thermal Comfort of Nano TiO<sub>2</sub> Coated Woven Fabrics

**Marek MACKO** - Innovation of Additive Manufacturing Device

**Pavel SRB** - Design of Pyrolysis Device Frame.

**Ales LUFINKA** - Device for Digitizing Coordinates of Defects in Glass.

#### **Room B (KAVARNA) – Meeting of Heads of Departments**

11.<sup>00</sup> – 12.<sup>30</sup> Discussion on the problematic of ICMD

12.<sup>30</sup> – 13.<sup>30</sup> Lunch

14.<sup>00</sup> – 19.<sup>00</sup> Trips, wellness, free programem

**19.<sup>00</sup> – 24.<sup>00</sup> Gala Dinner**

## Programme of ICMD 2023 from 12<sup>th</sup> to 14<sup>th</sup> September 2023

### 14.9.2023

7.<sup>30</sup> – 9.<sup>00</sup> Breakfast

#### **ROOM JAVOR - Engineering Analyses and Machine design (Prof. M NEMCEK)**

9.<sup>00</sup> – 10.<sup>30</sup> Presentations:

**Roman PROTASOV** - Creation of the HCR Tothing Model Considering the Change in the Thickness of the Thin Hard Coating for the Study of the Stress-strain State.

**Ladislav ŠEVČÍK** - The Problem of Reinforcing Battery Boxes

**Juraj ONDRUŠKA** - Application of FEM in the Design of a Unique Briquetting Press

**Marek ŠTÁDLER** - Analysis of Clinched Joints Manufacturing Residual Stress

**Lubomír PEŠÍK** - Modifications of the Manipulator Frame

10.<sup>15</sup> – 10.<sup>45</sup> Coffee Break

10.<sup>45</sup> – 11.<sup>00</sup> Closing of ICMD 2023