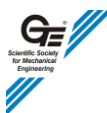


CECOL 2026	Conference Programme
DAY 1	Opening, plenary lectures and parallel sections
Location	Main Conference Room

TIME	PROGRAMME ITEM / SPEAKER	DETAILS
09:00–10:00	REGISTRATION	Registration of participants at University Restaurant and Event Center's Social Area
10:00–10:25	WELCOME SPEECHES	Prof. Dr. Zita Horváth Rector, University of Miskolc, Hungary Prof. Dr. Mirlan Koichubekovich Chynybaev Rector, Kyrgyz State Technical University, Kyrgyzstan Prof. Dr. Zoltán Siménfalvi Dean, Faculty of Mechanical Engineering and Informatics, University of Miskolc, Hungary Dr. Krisztina Bárdos Executive Director, Scientific Society for Mechanical Engineering, Hungary Prof. Dr. Péter Tamás Director, Institute of Logistics, University of Miskolc; Chair of the CECOL 2026 Organizing Committee
10:30–12:10	PLENARY SESSION	Moderator: Dr. Katalin Voith , University of Miskolc
10:30–10:50	Viktor Lippai	Commercial Director, East-West Intermodal Logistics Plc., Hungary <i>A Complex Intermodal Value Proposition – Introducing East-West Gate</i>
10:50–11:10	Prof. Dr. Christian Landschützer	Professor, Graz University of Technology, Austria <i>The Right Level of Detail: Purpose-Driven Simulation in Logistics Engineering – Avoiding pseudo-accuracy and over-engineering in material handling equipment physics simulation</i>
11:10–11:30	Prof. Dr. Goran Đukić	Professor, University of Zagreb, Croatia <i>Detect More, Inspect Less? Simulation-Based Optimization of Secure Parcel Flows</i>
11:30–11:50	Prof. Dr. Radu Vlad	Professor, Technical University of Cluj-Napoca, Romania <i>Planning, Scheduling and Digital Twins in Autonomous Logistics Systems</i>
11:50–12:10	Prof. Dr. Akylbek Umetaliev	Professor, Kyrgyz State Technical University, Bishkek, Kyrgyzstan <i>Development of Cross-Border Virtual Logistics Centers (VLC) for Enhancing Transit Capacity and Promoting Agricultural Products of the Kyrgyz Republic in Global Supply Chains</i>
12:10–13:00	LUNCH	Lunch break at University Restaurant and Event Center's Social Area
13:00–14:45	PARALLEL SECTIONS 1-4	Artificial intelligence in logistics & Digitalisation in logistics Logistics simulation and modelling & Optimisation of logistics systems
14:45–15:00	COFFEE BREAK	Coffee break during the parallel sessions at Social Area
15:00–17:00	PARALLEL SECTIONS 1-4 CONTINUED	Detailed presentation schedules follow on the next pages
09:00–17:00	POSTER SESSION	AI in Logistics Education - posters are available for viewing throughout the open conference programme hours
18:00–20:00	DINNER	Conference dinner at Social Area



DAY 1	Artificial intelligence in logistics and Optimisation of logistics systems
Location	Main Conference Room

SECTION CHAIRS: Prof. Dr. Károly Jármai - University of Miskolc | Dr. Tihomir Opetuk - University of Zagreb

TIME	SPEAKER / INSTITUTION	PRESENTATION
13:00–13:15	Prof. Dr. Károly Jármai University of Miskolc	Optimum design of crane girders using swarm intelligence
13:15–13:30	Anita Xhemali Polytechnic University of Tirana	Hierarchical Meta Fuzzy Decision Layer for ANFIS and ML Models in Medical Device Logistics
13:30–13:45	Jonas Zimmermann Magdeburg-Stendal University of Applied Sciences	A Framework for Context-Dependent Value Creation of Artificial Intelligence in SME Supply Chains
13:45–14:00	Dr. Miklós Szabó Széchenyi István University	Integrated Cutting Stock Optimization with Work-in-Progress Constraints in Multi-Product Manufacturing
14:00–14:15	Dr. Alexander Ortner-Pichler & Prof. Dr. Christian Landschützer Graz University of Technology	Towards a Decision Support Framework for Physics-Based Simulation of Material Handling Equipment
14:15–14:30	Dr. Rafał Niedbał Czestochowa University of Technology	Application of H2O AutoML for Delivery Delay Risk Prediction in E-commerce Supply Chain
14:30–14:45	Dr. Artur Wrzalił Czestochowa University of Technology	Applications of Artificial Intelligence in External Logistics Processes: A Systematic Literature Review
14:45–15:00 COFFEE BREAK		
15:00–15:15	Dr. Dariusz Dudek Czestochowa University of Technology	Determinants of the adoption of AI solutions for sustainable logistics: A TOE framework perspective
15:15–15:30	Dr. Péter Veres University of Miskolc	Cost-Aware Task Sequencing with Flexible Time Windows
15:30–15:45	Livia Vass University of Miskolc	Evaluating Route Consolidation Strategies in Urban Logistics Systems
15:45–16:00	Gergő Zemlényi University of Miskolc	Corporate Social Responsibility in Logistics Systems: A Systematic Literature Review
16:00–16:15	Dr. Maja Trstenjak University of Zagreb	Beyond Static Ergonomic Assessment: A Literature Review of Dynamic Human-State Assessment in Manual Logistics Activities
16:15–16:30	Dr. h.c. János Mondovics Bonitat Ltd.	Forecasting Methods Suitable for Simulation Models – A Brief Overview
16:30–16:45	Dr. Tihomir Opetuk University of Zagreb	The use of ergonomics methods in logistics process - case study



CECOL 2026 • Conference Programme

DAY 1	Digitalisation in logistics and Logistics simulation and modelling
Location	Side Conference Room

SECTION CHAIRS: Prof. Dr. Goran Đukić - University of Zagreb | Prof. Dr. Domenik Kaever - Graz University of Technology

TIME	SPEAKER / INSTITUTION	PRESENTATION
13:00–13:15	Prof. Dr. Domenik Kaever Graz University of Technology	Developing a Modular Physical-Digital Learning Environment for Material Handling Engineering
13:15–13:30	Dr. Waldemar Jędrzejczyk Czestochowa University of Technology	Innovative Solutions in Logistics of Enterprises in the TSL Sector: Comparative Review
13:30–13:45	Aibar Shaimurat University of Miskolc	Enhancing Supply Chain Security through Physically Unclonable Authentication
13:45–14:00	Ernesto González Cabrera University of Miskolc	A Logistics-Based Framework for Logistic Flow Resilience: Comparative Simulation of Water, Food, and Medicine Flows in Miskolc (Hungary)
14:00–14:15	Da Ma Otto-von-Guericke University Magdeburg	Explainable Kanban Control in Intralogistics with LLM Agents
14:15–14:30	Prof. Dr. Goran Đukić University of Zagreb	Vertical Class-Based Storage in Tier-Captive Shuttle-Based AS/RS
14:30–14:45	Dr. Gábor Nagy University of Miskolc,	Evaluating Logistics Service Providers for Industry 5.0: A Human-Centric, Resilient and Sustainable Framework
14:45–15:00 COFFEE BREAK at Social Area		
15:00–15:15	Ádám Francuz University of Miskolc	Dual Mapping in Smart Warehousing: From Layout Digitization to Data-Driven Objective Functions
15:15–15:30	Péter Kováts University of Miskolc	Review of Material Handling in Intermodal Logistics Terminals Using a Simulation-Based Approach
15:30–15:45	Prof. Dr. Ágota Bányai University of Miskolc	Supplier Selection under Cost and Operational Risk
15:45–16:00	Sándor Nagy University of Miskolc	Examining the applicability of energy harvesting systems for logistics IoT devices
16:00–16:15	Dr. Péter Telek University of Miskolc	Simulation features of transport channels
16:15–16:30	Amanda González Cabrera University of Miskolc	Assessing Supply Chain Performance under Digital Transformation: An Integrated Quantitative Framework
16:30–16:45	Dr. Szabolcs Szentesi University of Miskolc	Hierarchical Interpretation of Hybrid Inventory Solutions: Mechanism-, Policy-, and Model-Level Integration in Logistics Systems



CECOL 2026 • Conference Programme

CECOL 2026	Combined Conference Programme
DAY 2	Plenary lectures, parallel sections and conference excursion
Location	Main Conference Room

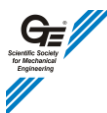
TIME	PROGRAMME ITEM / SPEAKER	DETAILS
09:00–10:00	REGISTRATION	Registration of participants
10:00–12:00	PLENARY SESSION	Moderator: Dr. Katalin Voith , University of Miskolc
10:00–10:20	Prof. Dr. Elke Glistau	Professor, Otto von Guericke University of Magdeburg, Germany <i>Logistics and Quality Management in 2026</i>
10:20–10:40	Ottília Deák	Expert Officer, Ministry of Transport and Investment, Hungary <i>Overview of Hungary's Legislative Activities on the Domestic and International Transport of Dangerous Goods</i>
10:40–11:00	Dr. Zsolt Molnár	Marketing Manager, GraphIT Ltd., Hungary <i>The Software-Defined Factory: Prompting the Future of Manufacturing and Logistics</i>
11:00–11:20	György Fírbás	Commercial Director, Royal Cargo Hungary <i>Beyond Technocratic Illusions: A Metamodern Paradigm and Metacognitive Control in Hungarian Industrial Logistics</i>
11:20–11:40	Dr. Mihai-Constantin Avornicului	Associate professor, Babeş-Bolyai University, Romania <i>Qualification of Logistics Platforms Using an Artificial Intelligence-Based Methodology</i>
11:40–12:00	Dr. Ádám Tálósi	Attorney-at-law, Law Office - TÁLOSI, Hungary <i>The HNS Convention: The Missing Link in the Maritime Liability Regime – Ushering in a New Era for Hazardous Sea Cargoes</i>
12:00–13:00	LUNCH	Lunch break at Social Area
13:00–15:00	PARALLEL SECTIONS 5–8	Logistics networks and systems & Green logistics Dangerous goods in logistics & Logistics education
09:00–15:00	POSTER SESSION	AI in Logistics Education — posters are available for viewing throughout the open conference programme hours
15:30–21:30	EXCURSION AND DINNER	Conference excursion and dinner at location. Meeting point in front of the University Restaurant and Event Center



DAY 2	Logistics networks and systems
Location	Main Conference Room

SECTION CHAIRS: Dr. Zoltán Valentinyi - John von Neumann University | Prof. Dr. Henning Strubelt - Bremerhaven University of Applied Sciences

TIME	SPEAKER / INSTITUTION	PRESENTATION
13:00–13:15	Prof. Dr. Henning Strubelt Bremerhaven University of Applied Sciences	Multi-Phase Framework for Classifying Autonomous Mobile Robots
13:15–13:30	Dr. Zoltán Valentinyi John von Neumann University	The Distance Problem in Andon Systems and Its Solution
13:30–13:45	Matej Bilačič Slovak University of Technology in Bratislava	Simulation-Based Design and Validation of a Hybrid Robotic Workstation for Packaging-Material Folding in Industrial Production
13:45–14:00	Dr. Ákos Cservenák University of Miskolc	Developing Android Application using DJI Mobile SDK for unique controlling of a DJI drone
14:00–14:15	Dr. Zoltán Valentinyi John von Neumann University	Analytical comparison of deposit-refund systems in European countries
14:15–14:30	Dr. János Juhász Institute of Logistics, University of Miskolc	Opportunities and Challenges in E-Commerce Logistics Network Modelling
14:30–14:45	László Seres DO-SMART Ltd.	The Role of Energy Communities in Sustainable Logistics: An Integrated Modelling and Optimisation Approach



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DAY 2	Green logistics, Dangerous goods in logistics and Logistics education
Location	Side Conference Room

SECTION CHAIRS: Prof. Dr. Daynier Rolando Delgado Sobrino - Slovak University of Technology in Bratislava | Tynchtyk Mukanov - Kyrgyz State Technical University

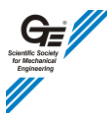
TIME	SPEAKER / INSTITUTION	PRESENTATION
13:00–13:15	Kristina Rifert Kyrgyz State Technical University	Institutional Transformation of Logistics Education in the Era of Artificial Intelligence: A Multi-Level Framework
13:15–13:30	Tynchtyk Mukanov & Almaz Kaiyrbekov Kyrgyz State Technical University	Sustainable Water Flow Control in Irrigation Systems: A Logistics-Oriented Approach
13:30–13:45	Dr. Bakhtiiar Amankulov Prime Electric LLC	Economic Efficiency of Implementing Practice-Oriented Modules in Logistics Education
13:45–14:00	Dávid Szalánczi University of Miskolc	Technology Selection for Rooftop PV Systems in Infrastructure-Limited Logistics Facilities: A Simulation- Based Thermal and Energy Performance Assessment
14:00–14:15	Aigerim Akmatova Kyrgyz State Technical University,	Hazardous Materials Logistics and Environmental Risk Management in Mining: The Case of Sodium Cyanide at the Kumtor Mine
14:15–14:30	Nurzada Toibaeva Kyrgyz State Technical University,	Investment Attractiveness of Educational Programs in the Field of Logistics: ROI Analysis
14:30–14:45	Dr. Bakhtiiar Amankulov Kyrgyz State Technical University	Supply Chain Consolidation of Electrical Materials in Residential Construction Projects: A Case Study from Kyrgyzstan



CECOL 2026	Open during conference programme hours
DAY 1–2	Poster Section

The poster section is available for viewing throughout the open conference programme hours on both days (Day 1: 09:00–17:00; Day 2: 09:00–15:00). The 10 entries below are intentionally left editable for later completion.

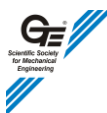
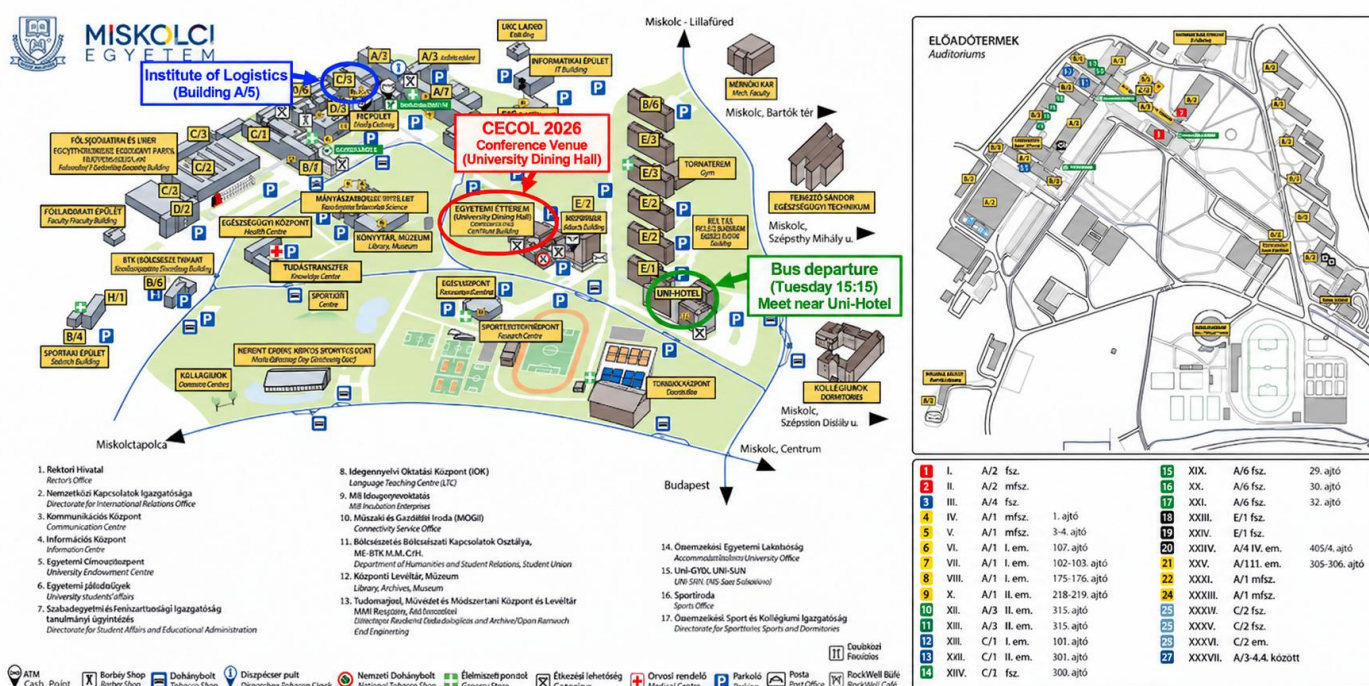
NO.	PRESENTERS	POSTER TITLE
1	Dr. Maja Trstenjak, Dr. János Juhász, Dr. Tihomir Opetuk, Prof. Dr. Goran Đukić, Prof. Dr. Hrvoje Cajner, Dr. Mihael Gudlin	Beyond Static Ergonomic Assessment: A Literature Review of Dynamic Human-State Assessment in Manual Logistics Activities
2	Dr. Gábor Nagy, Dr. Szabolcs Szentesi, Dr. Tihomir Opetuk, Gergő Zemlényi	Carbon-Aware Hybrid Replenishment Under Uncertainty
3	Péter Kovács, Dr. Róbert Skapinyecz, Prof. Dr. Péter Tamás, Prof. Dr. Goran Đukić	Programming And Graphical Refinement of Tecnomatix Plant Simulation Models
4	Bálint Jaskó, Dr. Ákos Cservenák	Investigation of the Logistics Integration and Efficiency of Autonomous Mobile Robots (amrs) and AGV Systems in an Industry 4.0 Environment
5	Henriett Matyi, Prof. Dr. Péter Tamás	Artificial Intelligence Applications in Packaging Management
6	Dr inż. Rafał Niedbał, Prof. PCz. Dr hab. inż. Waldemar Jędrzejczyk	Predicting Delivery Delays with Machine Learning: A Case Study of the Multimetal Company
7	Prof. Dr. Ing. Peter Košťál, Dr. Ing. Vanessa Prajová	Implementing An Intelligent Production Line for Battery Module Assembly – A Case Study
8	Prof. Dr. Péter Tamás	Simulation Modelling and The Possibilities for Integrating Artificial Intelligence – A Case Study
9	Tamás Tornai	AI-Based Intelligent Robotic Systems
10	Dr. Péter Veres Zoltán Baráth Prof. Dr. Hrvoje Cajner	Cost-Aware Task Sequencing with Flexible Time Windows



DAY 3 University campus tour and laboratory visits

TIME	EVENT
08:50	Meeting point In front of the University Restaurant and Event Center (MENZA).
09:00–10:00	University campus tour: University of Miskolc Library with the Selmec Traditions Exhibition Room, Aula and Event Space
10:00–11:00	University laboratory visits: Laboratories of the Institute of Logistics, the Institute of Machine Tools and Mechatronics, and the Robert Bosch Department of Mechatronics
11:00–12:00	University laboratory visits continued: Laboratories of the Institute of Water and Environmental Management (Groundwater Research) and the Institute of Raw Material Preparation and Environmental Processing (Waste and Mineral Processing)

University map and conference locations



CECOL 2026 • Conference Programme