



University of Miskolc,  
Hungary



**MultiScience - XXXVIII. microCAD  
International Multidisciplinary  
Scientific Conference -  
I. Innovations in sustainability  
29-30. May 2025**

**PROGRAMME**

## ORGANIZING COMMITTEE OF THE CONFERENCE

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<b>Chairman:</b>	<b>Péter SZŰCS</b>	Vice-Rector for General and Scientific Affairs
<b>Members:</b>	<b>Péter Norbert SZABÓ</b>	Vice-Dean of the Faculty of Earth and Environmental Sciences and Engineering
	<b>Tamás KÉKESI</b>	Full professor, Faculty of Materials and Chemical Engineering
	<b>Gabriella Bognár VADÁSZNÉ</b>	Vice-Dean of the Faculty of Mechanical Engineering and Informatics
	<b>Zoltán VARGA</b>	Vice-Dean of the Faculty of Law
	<b>Zoltán MUSINSZKI</b>	Vice-Dean of the Faculty of Economics
	<b>Renáta KRISTON</b>	Vice-Dean of the Faculty of Humanities and Social Sciences
	<b>Andrea LUKÁCS</b>	Vice-Dean of the Faculty of Health Sciences

The organiser of the Conference is the **UNIVERSITY OF MISKOLC**

**Address of the Organizing Committee:**  
***University of Miskolc, Directorate for Scientific  
Affairs and International Relations  
H-3515 Miskolc-Egyetemváros  
Phone: (+36-46) 565-111/ 10-16  
e-mail: microcad@uni-miskolc.hu  
<http://multiscience.uni-miskolc.hu>***

## DETAILED PROGRAMME

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of the MultiScience - XXXVIII. microCAD International Multidisciplinary  
Scientific Conference - I. Innovations in sustainability  
University of Miskolc, 29-30 May, 2025

### 29 May (Thursday) 2024

#### PLENARY SESSION

**VENUE:** Lecture Hall XVIII., Bld. A/6. ground floor

- |                                     |  |
|-------------------------------------|--|
| 10 <sup>00</sup> – 10 <sup>05</sup> | <b>Opening address and remarks</b><br><b>Prof. Dr. Péter Szűcs</b> Vice-Rector of the University of Miskolc  |
| 10 <sup>05</sup> – 10 <sup>45</sup> | <b>David Peck</b> , MBA, PhD, Associate Professor, Critical Materials and Circularity,<br>Delft University of Technology (TU Delft), The Netherlands<br><b>Circularity and Materials Opportunities</b> |
| 10 <sup>45</sup> – 11 <sup>00</sup> | <b>Questions</b>   |
| 11 <sup>00</sup> – 11 <sup>30</sup> | <b>Ákos Koppány Kiss, PhD</b> , Customer Success Engineer at SciEngineer<br><b>New trends in engineering workflows and the resulting technological needs in education</b>                              |
| 11 <sup>30</sup> – 11 <sup>45</sup> | <b>Questions</b>   |
| 12 <sup>00</sup> – 13 <sup>00</sup> | <b>Reception</b><br><b>Venue:</b> In front of the Senate Chamber, Bld. A/4.  |

### 29 May (Thursday) 2025

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|-------------------------------------|---------------------------------|
| 13 <sup>30</sup> – 18 <sup>30</sup> | <b>Presentations in session</b> |
|-------------------------------------|---------------------------------|

## SESSIONS AND VENUES OF THE CONFERENCE

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Sign	Name	Venue	
<b>Plenary</b>	Plenary session	Lecture Hall XVIII.	Bld. A/6. ground floor
<b>A</b>	Innovative Solutions for Raw Materials Exploration, Mining and Energy Management	Csókás Lecture Room	Bld. A/2. second floor 213.
<b>B</b>	Development and application of novel technical materials	Room 312.	Bld. B/1. third floor
<b>C</b>	Modern materials science and engineering	Room 115.	Bld. A/3. first floor
<b>D</b>	Modern materials science and engineering	Room 206.	Bld. A/3. second floor
<b>E</b>	Modern materials science and engineering	Room 114.	Bld. Information Science. first floor
<b>F</b>	Modern materials science and engineering	Lecture Hall 10 (Room 218-219)	Bld. A/1. second floor)
<b>G</b>	Law	Lecture Hall XVIII.	Bld. A/6. ground floor Lecture Hall XVIII.
<b>H</b>	Sustainability and economy	Room 218.	Bld. A/4. second floor
<b>I</b>	Humanities and Social Sciences	Room 306.	Bld. C/1. third floor
<b>J</b>	Health Sciences	Room 4.	Bld. STEFÁNIA

## REGISTRATION FOR THE CONFERENCE

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**Venue:** The Registration Desk is on the entrance of the Lecture Hall XVIII.

**Registration is open:**

<b>29 May 2025</b>	<b>9<sup>00</sup> – 10<sup>00</sup></b>
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**Dear microCAD Participants,**

As part of the microCAD 2025 conference, we are pleased to invite you to a special practice-oriented session taking place on May 28, 2025 at the University of Miskolc.

Organized by the CiRCLETECH project, this half-day event will feature guest speakers and experienced researchers sharing practical insights and guidance on:

Research management and open access strategies

Exploring research results (IP, patents, visibility)

Building successful international partnerships

Participation in a collaborative Science Café for informal dialogue and networking

📍 **Venue: Fintelligence Lecture Hall, University of Miskolc (A/4 Bld. second floor 350)**

📅 **Date: Wednesday, May 28, 2025**

**🕒 Agenda:**

**14:00–15:00 – Training on Research Management: Open Access & Publication Strategies**

**15:00–15:20 – Training on Exploiting Research Results: Patents, IPR, Industrial Applications**

**15:20–16:10 – International Partnership Building: Panel Discussion with Researchers**

**16:10–18:00 – Science Café & Networking Event**

We warmly encourage you to join these interactive and practical sessions, designed to support your professional development and international engagement.

**Please register using the link below:**

**<https://forms.office.com/pages/responsepage.aspx?id=-AEyxNh8REGQgOxZRyU1WKWQnwSIyolMqqRc0E0iS2xUODZQQkNBTEM0ME5KMVRLSEVYUDVSTDBZWS4u&route=shorturl>**

**We look forward to welcoming you!**

## **A: Innovative Solutions for Raw Materials Exploration, Mining and Energy Management**

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**VENUE:** *Csókás Lecture Room, Bld. A/2. 2nd floor, 213.*

**Chairman:** *Prof. Dr. Norbert Péter Szabó full professor*

**Secretary:** *Dr. Andrea Kolencsik Tóth assoc. professor*

**Date:** **29 May, 2025**

- 13.30 Mahdi Dashti<sup>1</sup> *University of Miskolc, Hungary<sup>1</sup>*  
*Analysis of the earthquake impact on urban tunnels using modeling in Phase 2 software*
- 13.50 Maen Alwahsh<sup>1</sup>, Gábor Mucsi<sup>2</sup> *University of Miskolc, Hungary<sup>1,2</sup>*  
*Mechanical characterization and reactivity assessment of PV panel glass waste: Linking grinding behavior to geopolymer potential*
- 14.10 Manivannan Sethurajan<sup>1</sup>, Eldon R. Rene<sup>2</sup>, Sami Virolainen<sup>1</sup> *Lappeenranta University of Technology<sup>1</sup>, IHE-Delft Institute for Water Education<sup>2</sup>*  
*Ferric sulfate leaching and recovery of cobalt from lithium ion battery*
- 14.30 Szilvia Szabó<sup>1</sup>, Ljudmilla Bokányi<sup>2</sup> *University of Miskolc, Hungary<sup>1,2</sup>*  
*Experimental investigation of surface properties of CdTe semiconductor*
- 14.50 Elemam Ayman<sup>1</sup> *University of Miskolc, Hungary<sup>1</sup>*  
*Effect of high compaction pressure on mechanical and microstructure properties of 316L stainless steel*
- 15.10 Gábor Hasulyó<sup>1</sup> *University of Miskolc, Hungary<sup>1</sup>*  
*Hydrogen accidents and functional safety*
- 15.30 József Pap<sup>1</sup>, Krisztián Mátyás Baracza<sup>2</sup>, Norbert Péter Szabó<sup>3</sup> *University of Miskolc, Hungary<sup>1,2,3</sup>*  
*Real time formation prediction using machine learning models based on drilling parameters*
- 15.50 Balázs Kovács<sup>1</sup>, István Székely<sup>2</sup>, Tamás Kántor<sup>3</sup> *University of Miskolc, Hungary<sup>1,2,3</sup>*  
*Optimization of environmentally friendly graphite – manganese dioxide electrode*
- 16.10 Max van Beek<sup>1</sup> *TU Delft*  
*Pcba to pcba, a depopulation comparison*
- 16.30 Coffee break
- 16.50 Gábor Nyiri<sup>1</sup>, Péter Szűcs<sup>2</sup>, Balázs Zákányi<sup>3</sup> *University of Miskolc, Hungary<sup>1,2,3</sup>*  
*Investigating the impact of river flood on travel time in RBF systems*
- 17.10 Musaab Mohammed<sup>1</sup> *University of Miskolc, Hungary<sup>1</sup>*  
*Application of hydrogeophysical methods for characterizing groundwater systems*
- 17.30 Julianna Lukács-Mekker<sup>1</sup>, Péter Szűcs<sup>2</sup>, Zoltán Püspöki<sup>3</sup> *University of Miskolc, Hungary<sup>1,2,3</sup>*  
*Introduction of the water management of the Jászság Basin, Hungary*

- 17.50 Sarkhel Mohammed<sup>1</sup>, Viktória Mikita<sup>2</sup>, Péter Szűcs<sup>3</sup> *University of Miskolc, Hungary<sup>1,2,3</sup>*  
***Characterizing temporal relationships of precipitation, groundwater, and stream discharge using multi-scale wavelet coherence analysis in the Erbil Basin, Northern Iraq***
- 18.10 Zoltán Székér<sup>1</sup>, Csaba Oláh<sup>2</sup>, Réka Matolcsi<sup>3</sup> *University of Miskolc, Hungary<sup>1</sup>, B-A-Z County Central Hospital and University Teaching Hospital<sup>2</sup>, University of Tokaj<sup>3</sup>*  
***Quantifying the environmental feedback loops of monocultural farming: Water, soil, and microclimate effects***
- 18.30 Ákos Koppány Kiss<sup>1</sup> *SciEngineer Kft.*  
***MATLAB in industrial and academic application***

## **B : Novel materials development, processing and characterisation**

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**VENUE:** *Room 312., Bld. B/1. third floor*  
**Chairman:** *Prof. Dr. Tamás Kékesi full professor*  
**Secretary:** *Dr. Szabó Gábor senior research fellow*

**Date:** **29 May, 2025**

- 13.30 Ákos Koppány Kiss<sup>1</sup> *SciEngineer Kft.*  
***MATLAB in industrial and academic application***
- 13.45 Tibor Mihály Nagy<sup>1</sup>, Zoltán Gácsi<sup>2</sup> *University of Miskolc, Hungary*  
***Computer aided defect detection of welded joint radiographic images***
- 14.00 Ghanaei Afshin<sup>1</sup>, Márton Benke<sup>2</sup> *University of Miskolc, Hungary*  
***New material candidates for new-generation nuclear power plant applications***
- 14.15 Balázs Szeleczi<sup>1</sup>, Miklós Nagy<sup>2</sup>, Ferenc Kristály<sup>3</sup> *University of Miskolc, Hungary*  
***Investigation of the dyes photocatalytic degradation of Ru-doped TiO<sub>2</sub> particles on expanded perlite and diatomite***
- 14.30 Benedek Sziklai<sup>1</sup>, Viktor Kárpáti<sup>2</sup>, Sepsi<sup>3</sup> *University of Miskolc, Hungary*  
 ***$\alpha$ -titanium precipitation processes in differently deformed Nb<sub>53</sub>Ti<sub>47</sub> superconductor***
- 14.45 Bugumba John Majondo<sup>1</sup>, Lilla Nánai<sup>2</sup>, Eszter Baradács<sup>3</sup>, Zoltán Erdélyi<sup>4</sup>, Klára Hernádi<sup>5</sup>  
*University of Miskolc, Hungary*  
***Growth of carbon nanotube forests using catalytic chemical vapor deposition (ccvd synthesis)***
- 15:00 Viktor Nyeste<sup>1</sup>, Dániel Molnár<sup>2</sup>, Valéria Mertinger<sup>3</sup> *University of Miskolc, Hungary*  
***Effect of local squeezing to mechanical properties***
- 15.15 *Break*
- 15.30 Levente Hajas<sup>1</sup>, Gábor Gyarmati<sup>2</sup>, Dániel Molnár<sup>3</sup> *University of Miskolc, Hungary*  
***Technology development of a pneumatic cast part***
- 15.45 Minale Yitbarek<sup>1</sup>, Kálmán Marossy<sup>2</sup>, *University of Miskolc, Hungary*  
***Enhancing the Mechanical Properties of PVC/TPU Blends Using a Sustainable Bio-Plasticizer***
- 16:00 Onyango Winnie Atieno<sup>1</sup>, György Czel<sup>2</sup> *University of Miskolc, Hungary*  
***Morphological descrio of wood polymer composite before and after long biodegradation process***
- 16:15 Zoltán Bratul<sup>1</sup>, János Erdélyi<sup>2</sup>, Dániel Molnár<sup>3</sup> *University of Miskolc, Hungary*  
***The role of jet-cooling technology in optimizing cycle time and casting quality in HPDC***



## C: MODERN MATERIALS SCIENCE AND ENGINEERING

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**VENUE:** *Room 115, Bld. A/3. first floor*  
**Chairman:** *Károly Jálics associate professor, head of institute*  
**Secretary:** *Al-Najjar Iyad Fawzi Yousef doctoral student*  
**Date:** **29 May 2025**

- 13.30 Issa Omle<sup>1</sup> *University of Miskolc, Hungary*  
***Optimizing the Design of Container House walls Using Argon and Recycled Plastic Materials***
- 13.45 Iyad Fawzi Yousef Al-Najjar<sup>1</sup>, Károly Jálics<sup>1</sup> *University of Miskolc, Hungary*  
***Using Matlab to Apply the method of lines on Cantilever Beam Under Varying Loads***
- 14.00 János Fájger<sup>1</sup>, Raghawendra Pratap Singh Sisodia<sup>2</sup> *University of Miskolc, Hungary*  
***Hydrogen transport, economy and infrastructure development—A Comparative study of Hungary's national strategy and global trends***
- 14.15 Iyad Fawzi Yousef Al-Najjar<sup>1</sup>, Károly Jálics<sup>1</sup> *University of Miskolc, Hungary*  
***Experimental and numerical analysis for a cantilever beam under load removal and harmonic excitation***
- 14.30 **Coffee break**
- 14.45 Tanuj Namboodri<sup>1</sup>, Csaba Felhő<sup>1</sup> *University of Miskolc, Hungary*  
***Analysis of Chip Coiling in different machining condition of X5CrNi18-10 Turning***
- 15.00 Issa Omle<sup>1</sup> *University of Miskolc, Hungary*  
***Optimizing the Design of Container House Walls Using Argon and Recycled Plastic Materials***
- 15.15 Alaa Mohammed Abed Al Rudhan<sup>1</sup>, Gabriella Vadászné Bognár<sup>1</sup> *University of Miskolc, Hungary*  
***Thermal Application of Open Cell Structure Metal Foam***
- 15.30 Katreen Ebrahim<sup>1</sup> *University of Miskolc, Hungary*  
***Innovations in Spinal Health: Biomechanical Assessment of Artificial Vertebral Discs Through Modern Engineering Technologies***
- 15:45 Szilárd Smolnicki<sup>1</sup>, Gyula Varga<sup>2</sup> *University of Miskolc, Hungary*  
***Analysis of the Factorial Design of Experiments and different Regression Models for generating optimal empirical equations***
- 16:00 **Summary**

## D: MODERN MATERIALS SCIENCE AND ENGINEERING

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**VENUE:** *Room 206, Bld. A/3. second floor*  
**Chairman:** *Zoltán Szamosi associate professor, head of institute*  
**Secretary:** *Baibhaw Kumar assistant lecturer*

**Date:** **29 May 2025**

- 13.30 Máté Szombathelyi<sup>1</sup>, Baibhaw Kumar<sup>1</sup>, Máté Petrik<sup>1</sup> *University of Miskolc, Hungary*  
*Comparing mechanical properties in polyethylene terephthalate and corresponding biopolymers*
- 13.45 László Péter Kiss<sup>1</sup>, Muhammad Hamza Daud<sup>1</sup> *University of Miskolc, Hungary*  
*On the instability of two- and three-pinned circular arches*
- 14.00 Attila Baksa<sup>1</sup>, Erika Baksáné Varga<sup>1</sup> *University of Miskolc, Hungary*  
*Numerical Modeling pipe-soil interaction under surface loading*
- 14.15 Marwen Habbachi<sup>1</sup>, Attila Baksa<sup>1</sup>, Péter Zoltán Kovács<sup>1</sup> *University of Miskolc, Hungary*  
*An investigation into the evolution of the stress triaxiality in single point incremental forming*
- 14.30 **Coffee break**
- 14.45 Levente Tugyi<sup>1</sup>, L. Gábor Szepesi<sup>1</sup> *University of Miskolc, Hungary*  
*The development of hazardous areas classification in European Union and Hungary*
- 15.00 Viktória Kállai<sup>1</sup>, L. Gábor Szepesi<sup>1</sup> *University of Miskolc, Hungary*  
*Investigation of one-column and pressure-swing distillation of ethanol-water mixture*
- 15.15 Manivannan Sethurajana<sup>1</sup>, Eldon R. Reneb<sup>2</sup>, Sami Virolainen<sup>1</sup>, <sup>1</sup>Lappeenranta University of Technology, Finland, <sup>2</sup>IHE-Delft Institute for Water Education, The Netherlands  
*Ferric sulfate leaching and recovery of cobalt from lithium ion battery*
- 15.30 Ákos Koppány Kiss<sup>1</sup> *SciEngineer Kft.*  
*MATLAB in industrial and academic applications*
- 15:45 **Summary**

## **E: MODERN MATERIALS SCIENCE AND ENGINEERING**

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**VENUE:** *Room 114, Bld. Information Science. first floor*  
**Chairman:** *Károly Nehéz associate professor, head of institute*  
**Secretary:** *Erika Baksáné Varga associate professor*

**Date:** **29 May 2025**

- 13.30 Szabina-Molnár Zékány<sup>1</sup> *University of Miskolc, Hungary*  
*Detailed implementation of the preparatory phase for pressure ulcer reconstruction*
- 13.45 Bence Szinyéri<sup>1</sup>, Bence Kovari<sup>1</sup>, Attila László Joó<sup>1</sup> *Budapest University of Technology and Economics*  
*Deep learning-based gross vehicle weight estimation in Bridge Weigh-in-Motion by using sensors in one cross-section*
- 14.00 Erika Baksáné Varga<sup>1</sup>, Attila Baksa<sup>1</sup> *University of Miskolc, Hungary*  
*Exploring Lexical Variation Through Synonym Sets in Human and AI-Written Scientific Texts*
- 14.15 **Coffee break**
- 14.30 Omar Mohammed Salih Alsabaawi<sup>1</sup>, József Vásárhelyi<sup>1</sup> *University of Miskolc, Hungary*  
*Compress-Then-Analyze vs. Analyze-Then-Compress: A Comparative Study for Edge-Based Visual SLAM*
- 14.45 Livia Vass<sup>1</sup>, Tamás Bányai<sup>1</sup> *University of Miskolc, Hungary*  
*Implementation of a novel integrated voting methodology in logistics*
- 15.00 Péter Kováts<sup>1</sup> *University of Miskolc, Hungary*  
*Application Possibilities of Artificial Intelligence and Simulation in Gauge Change Terminals*
- 15:15 József Túri<sup>1</sup> *University of Miskolc, Hungary*  
**On Hosszú type function equalists**
- 15.30 **Summary**

## **F: MODERN MATERIALS SCIENCE AND ENGINEERING**

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**Section title: The Department of Mechanical Technologies now known as the Institute Materials of Science and Technology, is 75 years old (1950-2025)**

**VENUE:** Lecture Hall 10 (*Room 218-219, Bld. A1. 2<sup>nd</sup> floor*)

**Chairman:** Zsolt Lukács *director of institute*

**Secretary:** Judit Pap senior lecturer

**Date:** 29 May, 2025

- 13.30 Arrival of participant (registration)
- 14.00 **Dr. Zsolt Lukács** director of institute  
The Department of Mechanical Technologies is 75 years old
- 14.25 Invited partner institutes, management comments
- 15.00 Coffee break
- 15.10 **Dr. Imre Török** honorary full professor, **Prof. Dr. Marcell Gáspár** full professor  
Welding Specialist Group past-present-future
- 15.30 **Dr. Mária Kocsisné Baán** honorary full professor, **Dr. László Kuzsella** associate professor  
Heat and Surface Treatment Specialist Group past-present-future
- 15.50 **Dr. Gaszton György Gál** honorary associate professor, **Dr. Péter Zoltán Kovács** associate professor  
Metal Forming Specialist Group past-present-future
- 16.10 **Prof. Dr. János Lukács** full professor, **Dr. Judit Pap** senior lecturer  
Structural Integrity Specialist Group past-present-future
- 16.30 Coffee Break
- 16.40 Friendly conversations, Birthday cake, refreshments
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## **G:LAW Section**

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**VENUE:** *Lecture Hall XVIII. Bld. A/6. ground floor*  
**Chairman:** *Zoltán VARGA assoc. professor*  
**Secretary:** *Felipe Andrés Cristancho ESCOBAR PhD Student*

**Date:** **29 May, 2025**

- 13.30      **Ágnes Váradi** *HUN-REN Centre for Social Sciences Institute for Legal Studies*  
*Legislative developments and the European Green Deal: lessons learned*
- 13.40      **Erika Róth** *University of Miskolc, Hungary*  
*The past, present and (near) future of mediation in Hungarian criminal proceedings*
- 13.50      **Andrea Jánosi** *University of Miskolc, Hungary*  
*Latest developments in victim support in Hungary*
- 14.00      **Erika Csemáné Váradi**, *University of Miskolc, Hungary*  
*To life as a child of Z-gen mothers*
- 14.10      **Gábor Mélypataki**, *University of Miskolc, Hungary*  
*The Human Behind the Smile - Legal Framework Behind the AI Controlled Working Process and Human Habits*
- 14:20      **Ágnes Juhász** *University of Miskolc, Hungary*  
*Digital Assets in the Inheritances*
- 14.30      **Réka Pusztahelyi**, *University of Miskolc, Hungary*  
*Two Giants Work in Tandem: Interplay Between the EU PLD and the AI Act*
- 14.40      **Csenge Halász** *University of Miskolc, Hungary*  
*New challenges to reputation and defamation on online news sites - a case law perspective*
- 14:50      **Laura Papp** *University of Miskolc, Hungary*  
*Digital revolution in the real estate registration system*
- 15:00      Break
- 15:10      **Zoltán Angyal** *University of Miskolc, Hungary*  
*Record financial penalty for Hungary for failure to comply with a judgement establishing a failure to fulfil obligations*
- 15.20      **Bernadett Solymosi-Szekeres**, *University of Miskolc, Hungary*  
*Reproductive leave in labour law and its connections on basic rights*
- 15.30      **Barbara Tóth** *University of Miskolc, Hungary*  
*New Practices in the Exercise of Parental Responsibility*
- 15.40      **Zsolt Czékmann** *University of Miskolc, Hungary*  
*The role of surveillance camera systems in the official management of wildlife sightings in urban areas*

- 15.50 **Balázs Szabó** *University of Miskolc, Hungary*  
*Intervention options for authorities in the event of wildlife sightings in rural areas*
- 16.00 **Evelin Ritó,** *University of Miskolc, Hungary*  
*Rescue dogs in the service of law - the legal status and regulatory issues of search dogs in Hungary*
- 16.10 **Eszter Czibrik,** *University of Miskolc, Hungary*  
*Renewal of construction regulations, focusing on architectural principles*
- 16:20 **Éva Erdős** *University of Miskolc, Hungary*  
*Reflections on the European Commission's legal instruments to combat digital tax avoidance and tax evasions*
- 16.30 **Hilda Tóth** *University of Miskolc, Hungary*  
*Connection between AI systems and platform workers*
- 16.40 Break
- 16:50 **Jafaar Sakkour** *University of Miskolc, Hungary*  
*A comparative analysis of policy effectiveness and systemic challenges of capital gains taxation in Syria and Hungary*
- 17.00 **Aktham Raed Ahmad Alqattamin** *University of Miskolc, Hungary*  
*Cultural Hegemony: Center-Periphery Dynamics in Global Cultural Exchange*
- 17.00 **Ammar Alqatawna** *University of Miskolc, Hungary*  
*Artificial Intelligence and Judicial Discretion: Threats and Opportunities*
- 17:20 **Douaa Zaidan** *University of Miskolc, Hungary*  
*AI Integration in Language Curricula Across European Schools During the Pandemic*
- 17:30 **Felipe Andrés Cristancho Escobar,** *University of Miskolc, Hungary*  
*The use of artificial intelligence in the administration of justice in Colombia*
- 17:40 **Thi Anh Nguyet Truong** *University of Miskolc, Hungary*  
*Emerging Technologies: Legal Issues involving Environmental Concerns in International Investment Law*
- 17:50 **Ömer Batuhan Dogan** *University of Miskolc, Hungary*  
*The Integration of Sustainable Smart Cities Within the Context of Civil Liability*
- 18.00 **Hanin Ghanem** *University of Miskolc, Hungary*  
*Public Tender Management and the Possibility of Automation*
- 18.10 Break
- 18.20 **Ali Eid** *University of Miskolc, Hungary*  
*Adapting International Sales Contracts to the Digital Age: Interpreting Software as Goods under the CISG*
- 18.30 **Huthaifa Albustanji** *University of Miskolc, Hungary*  
*Legal Challenges in Implementing the UN Convention on Cybercrime in the EU*
- 18.40 **Laura Kovács -Berényi** *University of Miskolc, Hungary*  
*Tax opportunities and challenges in fostering women's employment*
- 18:50 **Zoltán Varga** *University of Miskolc, Hungary*  
*The relationship between tax law and digitalisation*

## H: SUSTAINABILITY AND ECONOMY

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**VENUE:** *Room 218., Bld. A/4. 2<sup>nd</sup> floor*  
**Chairman:** *Judit FÜREDI-FÜLÖP assoc. professor*  
**Secretary:** *Klaudia MURÁNYI assistant professor*

**Date:** **29 May, 2025**

- 13.30 László Berényi *University of Miskolc, Hungary*  
***The Rise of the Agile Approach***
- 13.50 László Berényi *University of Miskolc, Hungary*  
***Exploring Opinion Patterns: Beyond Simple Questionnaires***
- 14.10 Hajer Jomaa *University of Miskolc, Hungary*  
***Labor Market Implications of the Shift from Fossil Fuels to Renewable Energy: A Systematic Literature Review***
- 14.30 Tamás Faludi *University of Miskolc, Hungary*  
***City logistics challenges - the social innovation impact of short supply chains***
- 14.50 Hayford Zigah *University of Miskolc, Hungary*  
***AI Application in modern production technologies: A meta analysis***
- 15.10 Hayford Zigah *University of Miskolc, Hungary*  
***The Transformative Role of AI in Shaping Future Digital Marketing Strategies***
- 15.30 *Break*
- 15.50 George Boateng Ohene *University of Miskolc, Hungary*  
***Navigating Intercultural Market Entry Between Ghana and Hungary: A CAGE Distance Model Approach***
- 16.10 Kitti Fodor *University of Miskolc, Hungary*  
***The history of lending and factors that can affect lending but are difficult to measure***
- 16.30 Eszter Siposné Nandori <sup>1</sup>, Mohammad Jaber <sup>2</sup>, Katalin Lipták <sup>3</sup> *University of Miskolc, Hungary*  
***Characteristics of poverty in Borsod-Abaúj-Zemplén county, Hungary***
- 16.50 Gabriella Metszősy *University of Miskolc, Hungary*  
***Well-being-based analysis of social innovation in the V4 countries***
- 17.10 Noémi Hajdú *University of Miskolc, Hungary*  
***Application fields of AI in city marketing***
- 17.30 Mária Várkonyiné Juhász, Judit Füredi-Fülöp, Klaudia Murányi *University of Miskolc, Hungary*  
***Audit requirements in Europe: a comparative overview***
- 17.50 Klaudia Murányi *University of Miskolc, Hungary*  
***The compliance assurance function in light of the recommendation for internal defense lines in Hungary***

## I: Humanities and Social Sciences

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**Venue:** *Room 306., Bld. C/1 third floor*  
**Chairman:** Renáta KRISTON assoc. professor  
**Secretary:** László BARNA assist. lecturer

**Date:** 29 May, 2025

- 13.30 Virág Havasi *University of Miskolc, Hungary*  
**Value Creation and Preservation of the Hungarian Green Movement**
- 13.45 Bouziane Karima Chouaib *Doukkali University, Morocco*  
**Translating Aïta: AI and the Preservation of Moroccan Oral Heritage**
- 14.00 Attila Dósa *University of Miskolc, Hungary*  
**Ghosts of Belonging: Community, Landscape and the Liminal Self in Recent Scottish Writing**
- 14.15 Break
- 14.30 Ágnes Magnucz-Godó *University of Miskolc, Hungary*  
**Developing Transversal Skills in International Student Projects**
- 14.45 Ruth Karin Lévai *University of Miskolc, Hungary*  
**The Transition from Romanticism to Modernism in the Works of Annette von Droste-Hülshoff**
- 15.00 Robin Lee Nagano *University of Miskolc, Hungary*  
**Recognition of Culture-Specific Items in Novels**
- 15.15 Attila Takács *University of Miskolc, Hungary*  
**Representations of a Hungarian "Indian" Identity in Cinema: Examining the Relevance of Cseh Tamás's Legacy in Ferenc Török's Apacsok**



## J: Health Sciences

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**VENUE:** *Room 4., Stefánia Bld. Faculty of Health Sciences*

**Chairman:** *Anikó Gyulai Associate Professor*

**Secretary:** *Hajnalka Sándor Assistant Professor*

**Date:** **29 May 2025**

13.30		Juhászné Szalai Adrienn <sup>1</sup> , Dojcsákné Kiss-Tóth Éva <sup>2</sup> , Fodor Bertalan <sup>1, 2</sup> <i>University of Miskolc, Hungary</i> <sup>1</sup> , <i>Borsod-Abaúj-Zemplén County Hospital and University Teaching Hospital, Department of Laboratory Medicine</i> <sup>2</sup> <b><i>Molecular allergy diagnostics as an innovative method for more effective allergy therapy</i></b>
13.45		Mándy Zoltán <i>University of Miskolc, Hungary</i> <b><i>The problematics of Human Rights from a health perspective</i></b>
14.00		Taysir Laajili <sup>1</sup> , Lukács Andrea <sup>2</sup> <i>Hungarian University of Sports Sciences</i> <sup>1</sup> <i>University of Miskolc, Hungary</i> <sup>2</sup> <b><i>Motivational orientations among young women with different sports backgrounds</i></b>
14:15		Kasi-Magyar Pálma Gerda <sup>1</sup> , Hankóczyiné Domonkos Judit <sup>2</sup> , Gyulai Anikó <sup>3</sup> <i>University of Miskolc, Hungary</i> <b><i>Feelings among algorithms: the impact of artificial intelligence on adolescents' emotional intelligence</i></b>
14.30		<i>Break</i>
14.45		Bukta Ilona <sup>1</sup> <i>University of Miskolc, Hungary</i> <b><i>Financing eldercare in some European and non-European countries</i></b>
15.00		Lakatos Csilla <sup>1</sup> , Juhász Eleonóra <sup>2</sup> , Rucska Andrea <sup>3</sup> <i>University of Miskolc, Hungary</i> <b><i>The relationship between academic motivation, self-evaluation and academic performance among students at the University of Miskolc</i></b>
15.15		Mayer Krisztina <sup>1</sup> , <i>University of Miskolc, Hungary</i> <b><i>Ballet as a means of experiencing physical and mental harmony</i></b>
15.30		Gyulai Anikó <sup>1</sup> , Szabó Csaba <sup>2</sup> , Lakatos Csilla <sup>3</sup> <i>University of Miskolc, Hungary,</i> <b><i>The relationship between digital health literacy and health anxiety in the adult population</i></b>