



UNIVERSITY OF
MISKOLC



**MultiScience - XXXIX. microCAD
International Multidisciplinary
Scientific Conference -
II. Innovations in Sustainability
28-29. May 2026**

Programme



ORGANIZING COMMITTEE OF THE CONFERENCE

Chair:	Péter SZÚCS	Vice-Rector for innovation and science
Members:	Péter Norbert SZABÓ	Chair of the Scientific Council of the University of Miskolc
	Márton BENKE	Full professor, Faculty of Materials and Chemical Engineering
	Gabriella Bognár VADÁSZNÉ	Vice-Dean of the Faculty of Mechanical Engineering and Informatics
	Zoltán VARGA	Vice-Dean of the Faculty of Law
	Zoltán MUSINSZKI	Vice-Dean of the Faculty of Economics
	Renáta KRISTON	Vice-Dean of the Faculty of Humanities and Social Sciences
	Andrea LUKÁCS	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, Center for academic management

H-3515 Miskolc-Egyetemváros

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<http://multiscience.uni-miskolc.hu>



DETAILED PROGRAMME

of the MultiScience - XXXIX. microCAD International Multidisciplinary

Scientific Conference - II. Innovations in Sustainability

University of Miskolc, 28-29 May 2026

28 May (Thursday) 2026

PLENARY SESSION

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

- 10⁰⁰ – 10⁰⁵ **Prof. Dr. Péter Szűcs** Vice-Rector of the University of Miskolc
Opening address and remarks
- 10⁰⁵– 10⁴⁵ **Justin Paul**, Ph.D (Brighton, UK), Ph.D (IIT), D.Sc (Hon), Full Professor, UPR
San Juan, PR, USA (Former Provost & Dean, NMIMS University, Honorary
Dean, SIMS by Catholic Diocese, Visiting Professor, ELTE Budapest
AI tools for research
- 10⁴⁵– 11⁰⁰ **Questions**
- 11⁰⁰– 11³⁰ **Zsuzsanna Mikó, PhD**, Head of the Scientific Data Analysis Methodology
Institute of the University of Miskolc
Building a Hungarian large language model
- 11³⁰ – 11⁴⁵ **Questions**
- 12⁰⁰ – 13⁰⁰ **Reception**
Venue: In front of the Senate Chamber, Bld. A/4.

28 May (Thursday) 2026

- 13³⁰ – 18³⁰ **Presentations in session**

29 May (Friday) 2026

- 9⁰⁰ – 13³⁰ **Presentations in session**



SESSIONS AND VENUES OF THE CONFERENCE

Sign	Name	Venue	
Plenary	Plenary session	Lecture Hall XVIII.	Bld. A/6. ground floor
A	Earth and Environmental Sciences and Engineering	Csókás Lecture Room	Bld. A/2. second floor 213.
B	Developing and examining modern metallic and non-metallic materials	Lecture Hall 8.	Bld. B/1. ground floor
C	Developing and examining modern metallic and non-metallic materials	Lecture Hall 8.	Bld. B/1. ground floor
D	Modern materials science and engineering	Room 1.	Bld. C/1. first floor
E	Modern materials science and engineering	Room 341.	Bld. A/4. third floor
F	Modern materials science and engineering	Room 115.	Bld. A/3. first floor
G	Modern materials science and engineering	Room 114.	Bld. IN. first floor
H	Law	Faculty Library of the Faculty of Law	Bld. A/5. second floor, room 209
I	Data-driven enterprises	Room 218.	Bld. A/4. second floor
J	Sustainability and social innovation	Room 318.	Bld. A/4. third floor
K	Humanities and Social Sciences	Room 301.	Bld. C/1. third floor
L	Health Sciences	Lecture Hall 5.	Bld. STEFÁNIA



REGISTRATION FOR THE CONFERENCE

Venue: The Registration Desk is in the glass hall

Registration is open:

27-28 May 2026	9 ⁰⁰ – 10 ⁰⁰
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MultiScience - XXXIX. microCAD
International Multidisciplinary Scientific Conference
II. Innovations in Sustainability
Day 0, 27 May 2026
Innovations in Sustainable AI Solutions

Morning session

VENUE: University of Miskolc, Lecture Hall XXXVII.

Chair: Norbert Péter Szabó *full professor*

10.00 Áron Kincses¹ *Hungarian Central Statistical Office (HCSO), Hungary¹*
Transforming Official Statistics in a Data-Driven Society

10.30 Gábor Németh¹ *Faculty of Health Sciences, University of Miskolc, Hungary¹*
The Role of Artificial Intelligence in Modern Ophthalmic Practice

11.00 János Vágó¹ *Faculty of Earth and Environmental Sciences and Engineering, University of Miskolc, Hungary¹*
Mapping the Future - Artificial Intelligence and GIS

11.30 László Árvai¹ *Faculty of Mechanical Engineering and Informatics, University of Miskolc, Hungary¹*
Engineering in the Age of AI: Opportunities and Challenges

12.00 Attila Garami¹ *Faculty of Materials and Chemical Engineering, University of Miskolc, Hungary¹*
Beyond the Black Box: Explainable AI in Materials and Chemical Engineering



Afternoon session

VENUE: University of Miskolc, Lecture Hall XXXVII.

Chair: Gabriella Vadász Bognár *full professor*

13:30 Zoltán Szatucsek¹ *National Archives of Hungary, Hungary¹*

AI-Processed Archival Sources: Challenges for Archives, Challenges for Researchers

14:00 Zoltán Szekér¹ *OD&IT Solutions Ltd., Hungary¹*

The Future of AI, Data and Cybersecurity

14:30 Ákos Boros¹ *Mhyner Geoconsulting Ltd., Hungary¹*

From Archive to Insight: Using AI to Unlock a Forgotten Geological Resource

15:00 Obidiegwu Martins Uchenna¹ *Faculty of Earth and Environmental Sciences and Engineering,
University of Miskolc, Hungary¹*

Artificial Intelligence with Focus on Machine Learning Across Disciplines: Unlocking Insights from Complex Data in Geosciences and Beyond

15:30 Birutė Rataitė¹ *Department of Informatics and Biotechnology, Klaipėdos State University of Applied
Sciences, Lithuania¹*

Software Development Process and Technologies



MultiScience - XXXIX. microCAD International Multidisciplinary Scientific Conference II. Innovations in Sustainability

VENUE: Csókás lecture room, Building A/2, 2nd floor, room 213.

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

Secretary: Dr. Andrea Tóth *associate professor*

Date 29 May 2026

10:00 Maen Alwahsh¹, Gábor Mucsi² *University of Miskolc, Hungary^{1,2}*

Photovoltaic waste glass and fly ash as precursors for alkali-activated binder systems

10:20 Péter Szűcs¹, Gábor Nyiri² *University of Miskolc, Hungary^{1,2}*

Challenges of managed aquifer recharge (MAR) in Hungary

10:40 Elyas Haddad¹, Marianna Vadászi² *University of Miskolc, Hungary^{1,2}*

Renewable and geothermal energy potential in Syria toward 2035

11:00 Katalin Tomkó Nyiri¹, Anna Bella Szombati-Galyas², István Szunyog³ *University of Miskolc, Hungary^{1,2,3}*

Assessment of preheating energy savings in pressure reduction stations: The impact of blending natural and hydrogen on fuel gas consumption

11:20 Gábor Hasulyó¹ *University of Miskolc, Hungary¹*

The safe side of hydrogen: A digital twin approach

11:40 Coffee break



12:00 Balázs Zákányi¹, Andrea Dédesi Géczai², Mihály Szabó³, Renáta Zákányi Mészáros⁴ University of Miskolc, Hungary^{1,2,3,4}

Occupational diseases in specialized areas of healthcare

12:20 Balázs Zákányi¹, Péter Gánóczi², Renáta Zákányi Mészáros³ University of Miskolc, Hungary^{1,2,3}

Testing fire safety solutions at welding workstations

12:40 Balázs Zákányi¹, Ádám Tamás², Renáta Zákányi Mészáros³ University of Miskolc, Hungary^{1,2,3}

Examination and evaluation of the design of heat and smoke exhaust systems

13:00 Renáta Zákányi Mészáros¹, Szabolcs Bodnár², László Berényi³, Balázs Zákányi⁴ University of Miskolc, Hungary^{1,2,3,4}

The impact of conscious change management on the development of EHS in the workplace



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Developing and examining modern metallic and non-metallic materials

VENUE: Miskolci Egyetem B/1 8. lecture hall

Chair: Zsolt VERES *associate professor*

14.00 Asefa Mekonen¹, Imre Miklos¹ ¹*Faculty of Materials and Chemical Engineering, University of Miskolc, Hungary*

Thermophysical Properties and Heat Transfer Performance of g-C₃N₄ Nanofluids in Water-Ethylene Glycol Mixtures

14.20 Viktor Nyeste¹, Valéria Mertinger¹, Dániel Molnár¹ ¹*Faculty of Materials and Chemical Engineering, University of Miskolc, Hungary*

Effect of local squeezing for different alloy types

14.40 John Emmanuel Chagu¹ ¹*Faculty of Materials and Chemical Engineering, University of Miskolc, Hungary*

Synthesis and characterization of Z-scheme semiconductor composite materials for photocatalytic purpose

15.00 Hadjra Ben Haoua¹ ¹*Faculty of Materials and Chemical Engineering, University of Miskolc, Hungary*

Effect of Silver doping on SnO₂ thin film for grow CNTs

15.20 Kristóf Imre Bodnár¹, Tamás Mende¹, András Bárdos¹ ¹*Faculty of Materials and Chemical Engineering, University of Miskolc, Hungary*

Overcoming the Strength-Electrical Conductivity Trade-Off in Commercially Pure Aluminium

15.40 Zoltán Takács¹ ¹*Faculty of Materials and Chemical Engineering, University of Miskolc, Hungary*

Urban Air Quality Monitoring with Low-Cost Sensor Networks: Data Exploration and Predictive Modelling Strategies in Miskolc



- 16.00 Singh Shubhanshu¹ ¹*Faculty of Materials and Chemical Engineering, University of Miskolc, Hungary*
Emission Dynamics of Plastic Waste: Impact of Aromaticity and Halogenation on Energy Recovery
- 16.20 Amanuel Ayyale Gabosho¹, Helga Kovacs¹ ¹*Faculty of Materials and Chemical Engineering, University of Miskolc, Hungary*
Physicochemical Characterization and Pyrolysis Approach for Metal Enrichment from Contaminated Wood Biomass



MultiScience - XXXIX. microCAD International Multidisciplinary Scientific Conference II. Innovations in Sustainability

Developing and examining modern metallic and non-metallic materials

VENUE: Miskolci Egyetem B/1 8. lecture hall

Chair: Máté SZŰCS *senior research fellow*

Date 29 May 2026

09.00 Péter Zoltán Kovács¹ *¹Institute of Materials Science and Technology, University of Miskolc, Hungary*

The effect of friction in determination forming limit diagrams

09.20 Abdulhakim Shukurea Rahmato¹, Péter Zoltán¹ *¹Institute of Materials Science and Technology, University of Miskolc, Hungary*

Combined effect of pre-strain and ageing treatment on the tensile shear strength behaviours of AL6082 aluminium alloys joined by clinching

09.40 István Illés¹, Gergő Fehér² *¹Faculty of Materials and Chemical Engineering, University of Miskolc, Hungary²Metal Waste Solution Kft, Hungary*

Processing of waste lithium-ion batteries by smelting followed by fire-refining and a novel hydrometallurgical technique using concentrated sulfuric acid conversion and water leaching

10.00 Gergő Fehér¹, István Illés² *¹Metal Waste Solution Kft, Hungary²Faculty of Materials and Chemical Engineering, University of Miskolc, Hungary*

Selective recovery of high purity silver and copper from electrical waste by applying electrometallurgical strippers: concentrated sulfuric acid vs. alkaline systems

10.20 Balázs Hegedűs¹, Tamás Kékesi¹ *¹Faculty of Materials and Chemical Engineering, University of Miskolc, Hungary*

Energy requirement for the recovery of solid by-products from aqueous solutions from secondary aluminium dross processing



- 10.40 Laura Mádi¹ ¹*Faculty of Materials and Chemical Engineering, University of Miskolc, Hungary*
Reducing Scrap with AI: A New Approach to Blowhole and Gas Porosity in Castings
- 11.00 Máté Jakubinyi¹, Ildi Bölkény² ¹*FIEK, Hungary* ²*University of Miskolc*
The importance of CE certification from EMC perspective
- 11.20 László Csaba Godó¹, Ildi Bölkény² ¹*FIEK, Hungary* ²*University of Miskolc*
Practical implementation of testing according to MSZ EN IEC 61000-4-3
- 11.40 István Kocserha¹, Zsolt Dobó¹, Csaba Deák¹ *Faculty of Materials and Chemical Engineering, University of Miskolc, Hungary*¹
CO₂ Mineralization Using Brine
- 12.00 Szabolcs Hompoth¹ ¹*Faculty of Materials and Chemical Engineering, University of Miskolc, Hungary*
Capacitive Behaviour of Electroless Ni-P Coatings in Alkaline Electrolytes
- 12.20 Orchidea Marianna Juhász¹ ¹*Community Service Office, University of Miskolc, Hungary*
Developing Soft Skills through Game-Based Reflective Learning in Engineering Higher Education



MultiScience - XXXIX. microCAD
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II. Innovations in Sustainability
MODERN MATERIALS SCIENCE AND ENGINEERING

VENUE: *Room 1., Bld. C/1. first floor*

Chair: *István Sztankovics assoc. professor*

Secretary: *Antal Nagy assist. Professor*

13.30 Zarbah Anas Mohammed Saleh Saleh¹ László Péter Kiss¹ *University of Miskolc, Hungary¹*

Effect of Grease Re-Lubrication on the High-Frequency Envelope Acceleration (gE) Indicator in Rolling Bearings

13.45 Namboodri Tanuj¹ Csaba Felhő¹ István Sztankovics¹ *University of Miskolc, Hungary¹*

Study of Reproducibility in Turning Analysis of Cutting Forces and Surface Roughness under Constant Machining Parameters

14.00 Sisodia Raghawendra Pratap Singh¹ *University of Miskolc, Hungary¹*

Medium Manganese Steels: Overview and Weldability

14.15 Tamás Árvai¹ Károly Jálics¹ *University of Miskolc, Hungary¹*

The Effect of Welding, Adhesive Bonding, and Mechanical Fastening Technologies on Wave Propagation in Automotive Bodies

14.30 **Coffee break**

14.45 János Lukács¹ Zaheer Elisha¹ *University of Miskolc, Hungary¹*

Connection between the tensile strength and fatigue crack growth characteristics of pipeline steels in hydrogen environment

15.00 Benedek Kulcsár¹ Szabolcs Szávai¹ *University of Miskolc, Hungary¹*

Material characterization through instrumented indentation test

15.15 **Summary**



MultiScience - XXXIX. microCAD International Multidisciplinary Scientific Conference II. Innovations in Sustainability MODERN MATERIALS SCIENCE AND ENGINEERING

VENUE: *Room 341., Bld. A/4. third floor*

Chair: *Tamás Herendi assoc. Professor*

Secretary: *Noémi Nagy assist. Professor*

- 13.30 Al Rudhan Alaa Mohammed Abed¹ Gabriella Bognár Vadászné¹ *University of Miskolc, Hungary¹*
CAD Design of Hexanal Porous Media Using SolidWorks
- 13.45 Ebrahim Katreen¹ *University of Miskolc, Hungary¹*
Towards Sustainable Spine Care: Lifetime-Oriented design of Lumbar Disc Implants through Biomechanical Modeling
- 14.00 Khayrullaev Husniddin¹ Endre Kovács¹ *University of Miskolc¹*
Insulation Optimization Using Renewable Materials for Building Walls by Transient Heat Transfer Calculations: A Comparative Study for Three Cities.
- 14.15 Viktória Kállai¹ Sebák Fruzsina Jázmin¹ Gábor L. Szepesi¹ *University of Miskolc¹*
Simulation of a Hybrid Distillation-pervaporation System
- 14.30 **Coffee break**
- 14.45 Wekesa Simon Waswa¹ Vinifred Nduku Mutuku² Krisztián Hriczó¹ *University of Miskolc¹, Kenyatta University, Kenya²*
Sustainable heat and mass transfer enhancement in MHD nanofluid
- 15.00 Viktória Mikáczó¹, Gergő Borza², *University of Miskolc, Hungary¹*
Investigation of the powder resistivity of wheat flour as a function of sample moisture content
- 15:15 **Summary**



MultiScience - XXXIX. microCAD
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MODERN MATERIALS SCIENCE AND ENGINEERING

VENUE: *Room 115., Bld. A/3. first floor*

Chair: *Ágnes Takács assoc. professor*

Secretary: *Áron Rohály doctoral student*

13.30 *Shaaya Karam Dheyaa Jirjees¹ Ferenc Sarka¹ University of Miskolc, Hungary¹*

Increasing the accuracy of cylindrical spur gears manufactured with FDM technology by modifying the geometry.

13.45 *Máté Szombathelyi¹, Máté Petrik¹ University of Miskolc, Hungary¹*

Exploring the usage of recycled materials in 3D printing

14.00 *Aghakhani Alireza¹, Ágnes Takács¹ University of Miskolc, Hungary¹*

Comparative Topology Optimization and Generative Design for Sustainable EV Battery Mount

14.15 *Géza Németh¹ University of Miskolc, Hungary¹*

Manufacturing and Measuring of Epicyclic Traction Drive Operating with Self Help

14.30 **Coffee break**

14.45 *Aghakhani Alireza¹ Ágnes Takács² University of Miskolc*

From Optimization to Sustainability: A Fusion 360 Workflow For EU Compliant EV Components

15.00 *Áron Rohály¹, Ágnes Takács¹ University of Miskolc, Hungary¹*

Latest research trends on design methodology of Hungarian Design Schools



15.15 *Gergő Leskó¹ University of Miskolc, Hungary¹*

Investigation of scoring and wear of the starter motor pinion

15.30 *Aghakhani Alireza¹ Ágnes Takács¹ University of Miskolc, Hungary¹*

The 150-Year Evolution of Topology Optimization: From Continuum Theory to Sustainable Engineering Workflows

15:45 **Summary**



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MODERN MATERIALS SCIENCE AND ENGINEERING

VENUE: *Room 114., Bld. IN. first floor*

Chair: *Károly Nehéz assoc. professor, head of institute*

Secretary: *Levente Fazekas teaching assist.*

8.30 Benaissa Moenes¹, László József Kovács¹ *University of Miskolc, Hungary¹*

An Empirical Taxonomy of Kolmogorov-Arnold Networks vs. MLPs

8.45 Asroubi Souad¹ *University of Miskolc, Hungary¹*

Explainable Machine Learning for Anomaly Detection in Critical Infrastructures: A Systematic Review

9.00 El Majdoub Wafae¹, István Sztankovics¹ *University of Miskolc, Hungary¹*

AI-Driven Prediction and Interpretation of Shape Errors in Turning Using XGBoost and SHAP Analysis

9.15 József Túri¹ *University of Miskolc, Hungary¹*

On Functional Equation

9.30 **Coffee break**

9.45 Soullami Ayyoub¹ *University of Miskolc, Hungary¹*

Uncertainty Estimation for Anomaly Detection in IoT Data

10.00 Dhaidah Kawtar¹ *University of Miskolc, Hungary¹*

Comparative Study of Unsupervised Anomaly Detection Models on Student Activity Data for Behavioral Health Monitoring



- 10.15 *Zsolt Karácsony¹ University of Miskolc, Hungary¹, Pausic Róbert² Bloxico Software Solutions DOO*
Closed-Form Post-Trade Clearing Price Formulas for Constant Product Market Makers
- 10.30 *Khazna Rama¹ University of Miskolc, Hungary¹*
From CNNs to Transformers: A Comparative Study in Breast Cancer Image Analysis
- 10.45 **Summary**



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LAW Section

VENUE: *Faculty Library of the Faculty of Law, Bld. A/5. II. floor, room 209.*
Chair: *Zoltán VARGA* Vice-dean of International and Research Matters, associate professor
Secretary: *Laura KOVÁCS-BERÉNYI* assistant lecturer

- 14.00 **Réka Pusztahelyi**, *University of Miskolc, Hungary*
Revised European regime of product liability and the medically recognised damage to psychological health
- 14.15 **Andrea Jánosi**, *University of Miskolc, Hungary*
Certain issues regarding the application of the European Protection Order
- 14.30 **Zoltán Angyal**, *University of Miskolc, Hungary*
Preliminary ruling proceedings before the General Court
- 14.45 **Balázs Szabó**, *University of Miskolc, Hungary*
System of social conflicts in the area of inland wild animal appearance
- 15:00 Break
- 15.20 **Laura Papp**, *University of Miskolc, Hungary*
The nexus of building Rights and condominium ownership: Theoretical and practical perspectives
- 15:35 **Petra Fráter-Bihari**, *University of Miskolc, Hungary*
How Can We Maintain Children's Mental Health in the Age of Social Media? - Reflections on the Margins of a Judgment
- 15:50 **Ádám Köteles**, *University of Miskolc, Hungary*
Possible logical foundations of legal reasoning
- 16.05 **Gábor Révész**, *University of Miskolc, Hungary*
Sexual competition, harassment and violence between young people in the information society
- 16:20 Break



- 16:40 **Ghania Belkacem**, *University of Miskolc, Hungary*
Human Trafficking in the Age of Social Media: Issues of Evidence and Jurisdiction
- 16:55 **Ömer Batuhan Dogan**, *University of Miskolc, Hungary*
Liability for Damage Caused by Autonomous Systems under EU Product Liability and AI Regulatory Frameworks
- 17:10 **Ngoc Anh Nguy**, *University of Miskolc, Hungary*
Excise tax and it's role in sustainable development in Vietnam
- 17.25 **Break**
- 17:45 **Anna Laczik**, *University of Miskolc, Hungary*
The role of AI in the EU's Cohesion Policy, EU Funds & Digitalization, Investing in Sustainability
The Human Capital Budget
- 18:00 **Anna Laczik**, *University of Miskolc, Hungary*
Circular Economy & Resource Resilience
- 18:15 **Laura Kovács-Berényi**, *University of Miskolc, Hungary*
Reflections on the Rules of Personal Income Taxation
- 18.30 **Zoltán Varga**, *University of Miskolc, Hungary*
Digital solutions in the field of tax law



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DATA-DRIVEN ENTERPRISES

VENUE: *Room 218., Bld. A/4. 2nd floor*
Chair: *Csilla Margit CSISZÁR assoc. professor*
Secretary: *Klaudia MURÁNYI assistant professor*

- 14.00 László Berényi¹, Luca Lehóczky¹ *University of Miskolc, Hungary¹*
Assessment of Smartphone Preferences Using the Q-Method
- 14.20 Csilla Margit Csiszár¹ *University of Miskolc, Hungary¹*
Business Purposes and Barriers of Artificial Intelligence Adoption in Enterprises
- 14.40 Kitti Fodor¹ *University of Miskolc, Hungary¹*
Comparison of Decision Tree-Based Methods in Predicting Retail Loan Defaults
- 15.00 Anna Holló¹, Eszter Siposné Nándori¹ *University of Miskolc, Hungary¹*
Border mosaics: the disintegrating and reorganizing world of the northern region of Borsod-Abaúj-Zemplén County
- 15.20 Khuzwayo Makhosi¹ *University of Miskolc, Hungary¹*
A systematic review of AI adoption across industries
- 15.40 *Break*
- 16.00 Daniella Mihalik-Kucsma¹ *University of Miskolc, Hungary¹*
Clash of Healthcare Models: Which System Holds the True Key to Efficiency?
- 16.20 Mária Várkonyiné Juhász¹, Judit Füredi-Fülöp¹ *University of Miskolc, Hungary¹*
Corporate Transparency in Three Dimensions: The Integration of Financial, Tax and Sustainability Reporting in the EU
- 16.40 Klaudia Murányi¹ *University of Miskolc, Hungary¹*
Capital requirements for credit institutions
- 17.00 Nóra Eszter Babják¹, Noémi Hajdú¹ *University of Miskolc, Hungary¹*
Sustainable distribution strategies in the european cookware industry a case study of Groupe SEB Central-Europe
- 17.20 Noémi Hajdú¹ *University of Miskolc, Hungary¹*
Algorithmic AI controlling: the controlling role of artificial intelligence in digital consumer behaviour



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SUSTAINABILITY AND SOCIAL INNOVATION

VENUE: *Room 318., Bld. A/4. 3rd floor*
Chair: *István KUNOS assoc. professor*
Secretary: *Gabriella METSZŐSY assistant professor*

- 14.00 Rezarta Kalaja¹, Szabolcs Nagy², Redi Myshketa³ *University of Durres "Aleksander Moisiu", Albania^{1,3} University of Miskolc, Hungary²*
Innovation Atlas as a Governance Infrastructure: From Mapping to Orchestration in Regional Innovation Ecosystems
- 14.20 Petro Pererva¹, Tetiana Kobielieva¹, Natalya Ilchenko¹ *Charkov Politech Universitet, Ukraine¹*
Sustainable development: circular and sharing economy
- 14.40 Dóra Diána Andrászkó¹ *University of Miskolc, Hungary¹*
Corporate Social Responsibility as a Learning Mechanism: A Conceptual Framework for Cultural Intelligence Development
- 15.00 Tamás Faludi¹ *University of Miskolc, Hungary¹*
What criteria can be established for the development of a sustainable supply chain? - A case study of outsourcing in green logistics processes
- 15.20 Anett T. Kiss¹, Zoltán Tóth¹ *University of Miskolc, Hungary¹*
Turning Knowledge into Innovation and Firm Performance in SMEs- A study of Hungarian SMEs using PLS-SEM Analysis
- 15.40 *Break*
- 16.00 Krisztina Varga¹ *University of Miskolc, Hungary¹*
Measuring Social Innovation Impact: A Multidimensional Assessment Framework
- 16.20 Gabriella Metszösy¹ *University of Miskolc, Hungary¹*
Need-Based Wellbeing in Central Europe: A Comparative Analysis of Hungary and the Czech Republic



MultiScience - XXXIX. microCAD International Multidisciplinary Scientific Conference II. Innovations in Sustainability Humanities and Social Sciences

Venue: Room 301, C/1 Bld. third floor

Chair: Renáta Kriston, associate professor

Secretary: László Barna, assistant lecturer

13:30 Ágnes Magnucz-Godó, *Faculty of Humanities and Social Sciences, University of Miskolc, Hungary*

Conceptualising global citizenship as a transversal skill in an international student project

13:50 Tünde Bajzát, *Language Teaching Centre, University of Miskolc, Hungary*

An analysis of graph description errors among tertiary-level students

14:10 Viktória Kopasz-Láng, *Faculty of Humanities and Social Sciences, University of Miskolc, Hungary*

Challenges of developing critical thinking

14:30 Attila Takács, *Faculty of Humanities and Social Sciences, University of Miskolc, Hungary*

Say cheese! How “reziium” and commodity cheese created a new indigenous hero

14:50 Break

15:00 Anikó Mátyás, *Faculty of Humanities and Social Sciences, University of Miskolc, Hungary*

The advanced-level English oral matura exam in practice: What do candidates and examiners see?

15:20 Robin Nagano, *Faculty of Humanities and Social Sciences, University of Miskolc, Hungary*

Interview talk: Responding to thanks from an interviewer

15:40 Kinga Szabó-Tóth, *Faculty of Humanities and Social Sciences, University of Miskolc, Hungary*

Starting life and creating opportunities – Innovative social interventions in the first thousand days of life



MultiScience - XXXIX. microCAD International Multidisciplinary Scientific Conference II. Innovations in Sustainability Health Sciences

VENUE: University of Miskolc, Stefánia Building, Lecture Hall 5

Chair: Andrea Lukács *Associate Professor*

Secretary: Imre Molnár *Research Fellow*

13.30 Zoltán Mándy¹ *Faculty of Health Sciences, University of Miskolc, Hungary¹*

Buiding Engineering Development Trends in Health or Wellness Institutions

13.45 Merey Bagdat¹, Andrea Lukács¹ *Faculty of Health Sciences, University of Miskolc, Hungary¹*

Nurses' Non-Verbal Communication

14.00 Lucia Adeoti Obisanya¹, Osuagwa Chioma Peace¹, Andrea Lukács¹ *Faculty of Health Sciences, University of Miskolc, Hungary¹*

Work Environment, Engagement and Well-Being among Hospital Nurses in Nigeria and Hungary: A Cross-Cultural Comparative Study

14.15 Jóna György¹, Gyulai Anikó¹, Kiss-Tóth Emőke¹ *Faculty of Health Sciences, University of Miskolc, Hungary¹*

From Face-to-Face to Screen-to-Screen: Telemedicine and the Doctor-Patient Relationship

14.30 Break

14:45 András Leleszi¹, Dénes Perényi¹, Anikó Gyulai¹ *Faculty of Health Sciences, University of Miskolc, Hungary¹*

AI-Processed Archival Sources: Challenges for Archives, Challenges for Researchers

15:00 Csilla Lakatos¹, Csaba Szabó¹ *Faculty of Health Sciences, University of Miskolc, Hungary¹*

Mental Health Literacy in Hungary: Population Patterns and Professional Gaps

15:15 Krisztina Mayer¹ *Faculty of Health Sciences, University of Miskolc, Hungary¹*

Investigation of Personality Psychology of Extreme Athlete



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