



University of Miskolc,
Hungary



**XXVII. microCAD
International Scientific Conference
21-22 March 2013**

PROGRAMME

WELCOME ADDRESS FROM THE RECTOR

The University of Miskolc, which is the legal successor of the Mining Academy (Bergschule) founded in 1735 in Selmecebánya (Banska Stiavnica) and which – in the next academic year – will celebrate its 280th academic year on account of the continuity of mining and metallurgical education, extends its greetings to the Reader on the occasion of organising the *XXVII. microCAD International Scientific Conference*.

You are holding the program booklet of the *XXVII. microCAD International Scientific Conference* in your hands. At the Conference, experts in engineering, economics, humanities and health sciences present and discuss their scientific results. During this event, the professional and personal relations between the experts will remarkably contribute to the efficient co-operation between participants and institutions as well.

In this year, special attention is given to publishing and disseminating the results of the scientific researches within the framework of the “Improvement of quality in higher education based on development of excellence centres in the strategic research fields of the University of Miskolc” (TÁMOP-4.2.1.B-10/2/KONV-2010-0001) project. In this respect, the engineering areas are organised into symposiums on the basis of the structure of the four Excellence Centres of the project, while the scientific results of the different workshops are placed in the traditional conference sections.

Over the last 26 years, the microCAD Conference has become the most significant multidisciplinary conference and meeting of professionals at the University of Miskolc.

Participants coming from about 12-16 different countries return to the conference every year to present their latest scientific results.

More than 7500 presentations, 40 thousand pages of publications, 102 international agreements signed between universities and numerous academic and research proposals witness the achievements of the last 26 years.

I recommend you the program of the *XXVII. microCAD International Scientific Conference* in the hope that the presentations, professional discussions and social events of the *Conference* will give you a golden opportunity to cherish and widen your professional relations. I truly believe that your presence, either as a speaker or as a participant, will contribute to the success of the *XXVII. microCAD International Scientific Conference*.

Prof. Gyula PATKÓ
Rector of the
University of Miskolc

SCIENTIFIC COMMITTEE OF THE CONFERENCE

Chairman:	Mihály DOBRÓKA	Pro-Rector for International Relations and Scientific Affairs
Secretary:	Péter BIKFALVI	Head of Department of Research Management and International Relations
Members:	László TIHANYI	Dean of the Faculty of Earth Science and Engineering
	Zoltán GÁCSI	Dean of the Faculty of Materials and Metallurgical Engineering
	Béla ILLÉS	Dean of the Faculty of Mechanical Engineering and Informatics
	András TORMA	Dean of the Faculty of Law
	György KOCZISZKY	Dean of the Faculty of Economics
	Mária KOVÁCS ILLÉS	Dean of the Faculty of Humanities
	László BARKAI	Dean of the Faculty of Health Sciences

DETAILED PROGRAMME

of the XXVII. microCAD International Scientific Conference
University of Miskolc, 21-22 March 2013

21 March (Thursday) 2013

10³⁰ – 10⁴⁰ **International Scientific Conference**
Opening address
Gyula PATKÓ – professor, Rector of the University of Miskolc
Venue: Lecture hall XXXVII., Bld. A/7, groundfloor

PLENARY SESSION

Venue: Lecture hall XXXVII., Bld. A/7, groundfloor

10⁴⁰ – 11²⁰ **A. G. MAMALIS** professor, project scientific director, National Center
Scientific Research “Demokritos”, Greece
**Macro- to Nanoscale Materials Processing under Static and Dynamic
Loading**

11²⁰ – 12⁰⁰ **B. Árpád PALOTÁS** professor, University of Miskolc, Hungary
Latest Development in Soot Micro-Structure Characterization

12⁰⁰ – 12¹⁵ Break

12¹⁵ – 13³⁰ **Reception**
Venue: Main Building A/4. Assembly Hall (Entry: only with invitation cards)

13³⁰ – 14⁰⁰ Break

14⁰⁰ – 18⁰⁰ **Presentations in the sections**
Venue: as listed in the section table

19³⁰ – 21⁴⁵ **microCAD 2013 Party**
Venue: Main Building A/4. Assembly Hall (Entry: only with invitation cards)

22 March (Friday) 2013

9⁰⁰ - 12⁰⁰ **Presentations in the sections**
Venue: as listed in the section table

12⁰⁰ - 14⁰⁰ Lunch break

14⁰⁰ - 18⁰⁰ **Presentations in the sections**
Venue: as listed in the section table

OPTIONAL PROGRAMME

22 March 2013 13³⁰ - 22⁰⁰ **Excursion to TOKAJ REGION**

REGISTRATION FOR THE CONFERENCE

Venue: The Registration Desk is opposite the entrance in Main Building (A/4.)

Registration desk open:

20 March (Wednesday) 2013	---	12 ⁰⁰ - 20 ⁰⁰
21 March (Thursday) 2013	8 ⁰⁰ - 12 ³⁰	13 ³⁰ - 17 ⁰⁰
22 March (Friday) 2013	8 ⁰⁰ - 12 ⁰⁰	----

ORGANISATIONAL COMMITTEE OF THE CONFERENCE

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

Address of the Scientific and Organisational Committee:
Miskolci Egyetem Tudományszervezési és Nemzetközi Osztály
H-3515 Miskolc Egyetemváros
Phone: (36-46) 565-111/ ext. 1016
Fax: (36-46) 563-423
e-mail: microcad@uni-miskolc.hu
www.uni-miskolc.hu/~microcad

SECTIONS AND VENUES OF THE CONFERENCE

Sign	Name	Venue	
Plenary	Plenary session	Lecture hall XXXVII.	Bld. A/7. groundfloor
A	Environmental and Energy Management	Lecture hall VI.	Bld. A/1. 1 st floor, 101.
B	Earth Science and Engineering	Lecture hall VIII.	Bld. A/1. 1 st floor, 115.
C-D	Applied Materials Science and Technologies	Káldor Mihály Room	Bld. B/1. groundfloor
E	Mathematics and Computer Science	Room 341.	Bld. A/4. 3 rd floor, 341.
F	Physics and Physics Education	Room 13.	Bld. A/1. mezzanine 13.
G	Automation and Telecommunication	Room 112.	Bld. A/1. 1 st floor, 112.
H	Electrical Engineering	Room 220.	Bld. A/1. 2 nd floor, 220.
I	Applied Information Engineering	Lecture hall IV.	Bld. A/1. mezzanine 1.
J	Material Flow Systems. Logistical Information Technology and Technical Language	Room 106.	Bld. A/5. 1 st floor, 106.
K	Machine and Construction Design	Department of Machine and Construction Design	Bld. A/3. 1 st floor, 115.
L	Production Engineering and Manufacturing Systems	Room 1.	Bld. C/1. groundfloor, 1.
M	Material Processing Technologies	Room 307.	Bld. A/1. 3 rd floor, 307.
N	Fluid and Heat Engineering	Lecture hall X.	Bld. A/1. 2 nd floor, 218.
O	Applied Mechanics	Room 439.	Bld. A/4. 4 th floor, 439.
P	Legal Science	Faculty of Law	Bld. A/6. groundfloor 31.
Q	Economic Challenges in the 21 st Century	Lecture hall V.	Bld. A/1. mezzanine 3-4.
R	Humanities and Social Sciences	Room 11.	Bld. A/1. mezzanine 11.
S	Medical and Health Science	Room 12.	Bld. A/1. mezzanine 12.

SUSTAINABLE NATIONAL RESOURCES MANAGEMENT SYMPOSIUM

Chairman: István LAKATOS *professor*

A: ENVIRONMENTAL AND ENERGY MANAGEMENT

VENUE: Lecture hall VI., Bld. A/1. 1st floor, 101.

Chairman: József FAITLI *assoc. professor*

Secretary: Gábor MUCSI *assoc. professor*

Date: March 22, 2013

- 9.00 **Ferenc Kovács, Péter Kovács** University of Miskolc, Hungary
Coal Rates in Electricity Production. The Reality of Climate Causes
- 9.20 **Ferenc Kovács, Richárd Tompa** University of Miskolc, Hungary
Geological and Industrial Coal Resources in Leading Coal Producer Countries
- 9.40 **Sorin Mihai Radu, Sorina Stanila, Razvan Cretan** University of Petrosani, Romania
Solutions to Increase the Energetic Efficiency of Compressed Air Distribution Networks
- 10.00 *Break*
- 10.20 **Aron Poanta, Silviu Marin Nan, Adrian Bogdan Simon, Dan Liviu Dandea** University of Petrosani, Romania
Theoretical and Experimental Research Regarding the Design and Construction of Monitoring Systems for Potentially Explosive or Toxic Environments
- 10.40 **István Lakatos, Péter Kőrös, Viktor Nagy** Széchenyi István University, Hungary
Definition of Standard Parameters of a PMSM Using Similarity Principles Designed for Road Vehicle Drive
- 11.00 *Summary*

SUSTAINABLE NATIONAL RESOURCES MANAGEMENT SYMPOSIUM

Chairman: István LAKATOS *professor*

B: EARTH SCIENCE AND ENGINEERING

VENUE: Lecture Hall VIII., Bld. A/1. 1st floor, 115.

Chairman: Éva HARTAI *assoc. professor*

Secretary: Réka HORVÁTH *fiatal kutató*

Date: March 21, 2013

- 14.00 **Szandra Fekete, Réka Horváth, Attila Horváth** University of Miskolc, Hungary
Exploration of Critical Elements, Especially Rare Earths Elements (REE), Germanium (Ge), Magnesium (Mg) and Beryllium (Be) in Hungary
- 14.20 **László Kompár, Endre Dobos** University of Miskolc, Hungary
Pedological Investigations on the Duna-Tisza Range for the Natural Recharge Estimation
- 14.40 **László Oláh¹, Gergely Gábor Barnaföldi¹, Gergő Hamar², Hunor Gergely Melegh³, Gergely Surányi⁴, Dezső Varga¹** Eötvös Loránd University¹, Wigner RCP of the HAS², Budapest University of Technology and Economics³, Geological, Gophysical and Space Science Research Group of the HAS⁴, Hungary
Portable Cosmic Particle Detector for Investigation of Underground Rock Inhomogeneities
- 15.00 **László Kis** University of Miskolc, Hungary
Temperature Distribution of the Circulating Drilling Mud
- 15.20 *Break*
- 15.40 **Péter Szűcs, Zoltán Fejes** University of Miskolc, Hungary
Potential Lukewater and Warm Water Exploration in Tokaj Mountain
- 16.00 **Ádám Koncz** University of Miskolc, Hungary
Binary Geothermal Electricity Production: Thermodynamic Efficiency Development in the Last Years
- 16.20 **Tibor Szabó** University of Miskolc, Hungary
Environmental Challenges of Geothermal Drilling Operations
- 16.40 *Summary*

SUSTAINABLE NATIONAL RESOURCES MANAGEMENT SYMPOSIUM

Chairman: István LAKATOS *professor*

B: EARTH SCIENCE AND ENGINEERING

VENUE: Lecture Hall VIII., Bld. A/1. 1st floor, 115.

Chairman: János FÖLDESSY *professor*

Secretary: Réka HORVÁTH *fiatal kutató*

Date: March 22, 2013

- 9.00 **Tamás Magyar** University of Miskolc, Hungary
Investigation of Fly Ash Based Backfilling Material in Acid Environment
- 9.20 **Zoltán Molnár, Gábor Mucsi, Barnabás Csőke** University of Miskolc, Hungary
Review of Mechanical Activation Effect on Fly Ash Based Geopolymers
- 9.40 **Eugene Retsinis, John Demetriou** National Technical University of Athens, Greece
Flow Velocities over Triangular Weir
- 10.00 **József Kovács, Dumitru Jula, Ovidiu Bogdan Tomus, Diana Sălășan** University of Petrosani, Romania
The Mechanical Rock Cutting Behavior of Different Coal and Rock in Underground and Open Pit Mining
- 10.20 *Break*
- 10.40 **Krisztina Kaliczne Papp** University of Miskolc, Hungary
„Fish-hook” Effect – The Special Phenomenon in the Air-classification
- 11.00 **Nóra Gonda, Balázs Kovács** University of Miskolc, Hungary
Vacuum Enhanced Bearing Capacity of Recsk Type Flotation Slurry
- 11.20 **Zoltán Pap** University of Miskolc, Hungary
Research Perspectives in the Field of Magnetic Enrichment Technologies
- 11.40 **Iosif Andras, Stela Dinescu, Andrei Andras** University of Petrosani, Romania
Computer Aided Simulation of Complex Technological Systems for Coal Extraction
- 12.00 *Summary*

APPLIED MATERIALS SCIENCE AND NANOTECHNOLOGY SYMPOSIUM

Chairman: András ROÓSZ *professor*

C-D: APPLIED MATERIALS SCIENCE AND TECHNOLOGIES

VENUE: Káldor Mihály Room, Bld. B/1. groundfloor

Chairman: Péter BARKÓCZY *assoc. professor*

Secretary: Zsolt DUGÁR *PhD Student*

Date: March 21, 2013

- 14.00 **Markus Brehm, Maiko Girschikofsky, Ralf Hellmann** University of Applied Sciences
Aschaffenburg, Germany
Optical Planar Bragg Grating Sensor for pH-Measurements
- 14.20 **Steffen Hessler, Manuel Rosenberger, Stefan Belle, Ralf Hellmann** University of Applied Sciences
Aschaffenburg, Germany
Characterization of UV-written Optical Waveguides in PMMA by Phase-shifting Mach-Zehnder-Interferometry
- 14.40 **Stefan Rung, Mal Rexhepi, Ralf Hellmann** University of Applied Sciences Aschaffenburg, Germany
Beam Shaping for Enhanced Throughput of Laser Ablation of Transparent Conductive Films
- 15.00 **Zsolt Kriston, László Kuzsella, Imre Kállai** University of Miskolc, Hungary
Mechanical Testing of PVC Based Extruded Foams
- 15.20 *Break*
- 15.40 **János Erdélyi, Ágnes Szemán** University of Miskolc, Hungary
EDGE Stress, and Longitudinal Dish and Bow Measurements of Float Glass
- 16.00 **János Fajger¹, András Gergely², Tamás Török²** Fajger Mérnöki Iroda Ltd.¹, University of Miskolc²,
Hungary
New Development of the Chromium Free Post Treatment Usage on Zn Coated Surface
- 16.20 **Szabolcs Jónás, Szabolcs Szávai, Péter Rózsahegy, Róbert Belezna** Bay Zoltán Nonprofit Ltd.
Institute for Logistics and Production Engineering, Hungary
Determination of Material Properties Using Small Punch Test
- 16.40 **Katalin Szűcs, László Kuzsella, János Lukács** University of Miskolc, Hungary
Physical Simulation as an Ultimate Tool to Discover the Weldabilities
- 17.00 **Erzsébet Nagy, Valéria Mertinger, Márton Benke, Ferenc Tranta** University of Miskolc, Hungary
Twip Effect in FeMnCr Alloys
- 17.20 *Summary*

APPLIED MATERIALS SCIENCE AND NANOTECHNOLOGY SYMPOSIUM

Chairman: András ROÓSZ *professor*

C-D: APPLIED MATERIALS SCIENCE AND TECHNOLOGIES

VENUE: Káldor Mihály Room, Bld. B/1. groundfloor

Chairman: Péter BARKÓCZY *assoc. professor*

Secretary: Zsolt DUGÁR *PhD Student*

Date: March 22, 2013

- 9.00 **Corneliu Gligor** Univeristy of Oradea, Romania
Continuous Improvement Processes as a Tool for Performance/process Performance Turnaround in Metallurgical Industry
- 9.20 **Christoph Pichler, Gerald Schneeberg, Jürgen Antrekowitsch** University of Leoben, Austria
Utilization of Residues from the Iron and Steel Industry with Main Focus on Filter Dusts
- 9.40 **Gerald Schneeberger, Christoph Pichler, Jürgen Antrekowitsch** University of Leoben, Austria
Investigations in the Behaviour of Quasi-Ternary Slag Systems during Recycling of Residues from Steel Industry
- 10.00 **Mónika Tokár, György Fegyverneki, Jenő Dúl, Valéria Mertinger** University of Miskolc, Hungary
Desingning and Testing the Casting die with Variable Wall Thickness for Studying of the Al-Si Foundry Alloys
- 10.20 **Gergely Bálint Tóth, Zoltán Harangi, Tibor Kulcsár, Tamás Kékesi** University of Miskolc, Hungary
Metal Content of Drosses Arising from the Melting of Aluminium Alloy Scrap
- 10.40 *Break*
- 11.00 **Corneliu Gligor** Univeristy of Oradea, Romania
D.M.A.I.C. and Six Sigma Tools Used in Conjunction with Metallurgical Conversion Process
- 11.20 **Máté Szűcs¹, György Krállics¹, János Lénárd²** University of Miskolc, Hungary¹, University of Waterloo, Canada²
Experiments and Simulation of Asymmetrical Rolling
- 11.40 **Zsolt Dugar¹, Péter Barkóczy², Gábor Béres¹, Dávid Kis¹** College of Kecskemét¹, University of Miskolc², Hungary
Examination of Recrystalization of Copper Specimen Using Dmta Measurement Technique
- 12.00 **Tibor Bakondi, Gábor Frigyik, László Kuzsella** University of Miskolc, Hungary
Examination of Oxy-Hydrochloride Reactor's Failed Elements
- 12.20 *Summary*

MECHATRONICS AND LOGISTICS SYMPOSIUM

Chairman: Béla ILLÉS *professor*

E: MATHEMATICS AND COMPUTER SCIENCE

VENUE: Room 341. Bld. A/4. 3rd floor, 341.

Chairman: Attila HÁZY *assoc. professor*

Secretary: Zsolt KARÁCSONY *assoc. professor*

Date: March 21, 2013

- 14.00 **Péter Bakucz¹, Annamária Várkonyiné Kóczy²** University of Óbuda, Hungary²
Detection of Atrial Fibrillation by Filtered X-LMS Algorithm
- 14.20 **Renáta Vas¹, István Fazekas¹, Zsolt Karácsony²** University of Debrecen¹, University of Miskolc²,
Hungary
Kernel Type Estimator of a Bivariate Average Growth Function
- 14.40 **Bettina Porvázsnyik, István Fazekas** University of Debrecen, Hungary
Scale-Free Property for Degrees and Weights in a Preferential Attachment Random Graph Model
- 15.00 **Attila Házy** University of Miskolc, Hungary
Bernstein-Doetsch Type Results for Approximately (k, h) -Convex Functions
- 15.20 *Break*
- 15.40 **Zoltán Csáti, Gabriella Bognár, Krisztián Hriczó** University of Miskolc, Hungary
Investigation of the Boundary Layer over a Vertical Plate Embedded in Porous Medium
- 16.00 **Zoltán Csáti, Gabriella Bognár** University of Miskolc, Hungary
Iterative Transformation Method for the Generalized Sakiadis Problem
- 16.20 **Imre Piller** University of Miskolc, Hungary
Tag Suggestion Methods of Tag Based Document Management System
- 16.40 **Imre Piller, Sándor Fegyverneki** University of Miskolc, Hungary
Estimation for Dimension of Superfinished Surfaces
- 17.00 *Summary*

MECHATRONICS AND LOGISTICS SYMPOSIUM

Chairman: Béla ILLÉS *professor*

F: PHYSICS AND PHYSICS EDUCATION

VENUE: Room 13., Bld. A/1. mezzanine 13.

Chairman: Béla PARIPÁS *professor*

Secretary: János MAJÁR *assist. professor*

Date: March 21, 2013

- 14.00 **Endre Kovács¹, Réka Trencsényi², Zsolt Gulácsi²** University of Miskolc¹, University of Debrecen², Hungary
Ground State Solution for a Small Sample 2D Hubbard Model at Low Concentration: Emergence of Nano-grain Ferromagnetism
- 14.20 **Béla Paripás, Béla Palásthy** University of Miskolc, Hungary
Experimental PCI Studies in (e,3-1e) Coincidence: I. The Method
- 14.40 **Béla Paripás, Béla Palásthy** University of Miskolc, Hungary
Experimental PCI Studies in (e,3-1e) Coincidence: II. Results and Discussion
- 15.00 **János Majár** University of Miskolc, Hungary
A New Type of Gravitational Wave Sources: Binaries on Unbound Orbits
- 15.20 **Gábor Pszota** University of Miskolc, Hungary
Indications for Black Hole Spin from X-ray Spectra
- 15.40 *Summary*

MECHATRONICS AND LOGISTICS SYMPOSIUM

Chairman: Béla ILLÉS *professor*

G: AUTOMATION AND TELECOMMUNICATION

VENUE: Room 112., Bld. A/1. 1st floor, 112.

Chairman: László CZAP *assoc. professor*

Secretary: József VÁSÁRHELYI *assoc. professor*

Date: March 21, 2013

- 14.00 László Árvai Bay Zoltán Nonprofit Ltd. for Applied Research, Hungary
Design of the Ground Station Hardware for Unmanned Aerial Vehicle
- 14.20 Péter Karkus, Domokos Kiss Budapest University of Technology and Economics, Hungary
Designing the Hardware and Software System of a Robocup Robot Soccer Player
- 14.40 Ildikó Bölkény, Gergő Szabó University of Miskolc, Hungary
Dosing Systems Used in Oil- and Gas Industry
- 15.00 Csaba Vörös, Károly Jónap, József Subert University of Miskolc, Hungary
Mobilized Gas Hydrate Investigation System
- 15.20 József Subert University of Miskolc, Hungary
Online Thermodynamic Models in the Industry: The 30.000 m³ Atmospheric Gas Tank of Mol PLC
- 15.40 Dávid Szalóki, Kristóf Csorba, Domokos Kiss Budapest University of Technology and Economics, Hungary
The Robonaut Autonomous Mobile Robotics Contest
- 16.00 Bence Formanek¹, László Czap² CableWorld Ltd.¹, University of Miskolc², Hungary
Video Bitrate Reduction on Multicore DSP
- 16.20 *Summary*

MECHATRONICS AND LOGISTICS SYMPOSIUM

Chairman: Béla ILLÉS *professor*

H: ELECTRICAL ENGINEERING

VENUE: Room 220., Bld. A/1. 2nd floor, 220.

Chairman: Ernő KOVÁCS *assoc. professor*

Secretary: Csaba BLÁGA *assoc. professor*

Date: March 21, 2013

- 14.00 **Andrei-Toader Filip, Radu-Petru Hangiu, Claudia-Steluta Martis, Károly Ágoston Biró** Technical University of Cluj Napoca, Romania
Comparative Study of a Permanent Magnet Synchronous Machine with Different Magnet Design
- 14.20 **Radu-Petru Hangiu, Andrei-Toader Filip, Claudia Martis, Károly Ágoston Biró** Technical University of Cluj-Napoca, Romania
Permanent Magnet Synchronous Machines for Integrated Starter Alternator Applications
- 14.40 **Viliam Fedak, Radovan Sivy, Peter Keusch** Technical University of Kosice, Slovakia
Multi-Motor Drive Control System for Robotic Applications Developed in MATLAB GUI Environment
- 15.00 **Viliam Fedak, Daniel Magura, Peter Keusch** Technical University of Kosice, Slovakia
Physical Model of a Continuous Production Line for Learning Algorithms of Multi-Motor Drive Control
- 15.20 **Mihai-Valentin Paunescu, Dan Paunescu, Ioan G.Tarnovan** Technical University of Cluj-Napoca, Romania
Heating of Axial Flux Permanent Magnet Machines: An Overview
- 15.40 *Break*
- 16.00 **Godem A. Ismeal, Viliam Fedák** Technical University of Kosice, Slovakia
Optimisation of Cascade PID Controller for DC Drives Using Genetic Algorithms
- 16.20 **Godem A. Ismeal, Viliam Fedák, Róbert Üveges** Technical University of Kosice, Slovakia
3D Model of an Industrial Robot of the SF-25 SEF-Roboter Type with Simulation in Simmechanics Environment
- 16.40 **Viktor Füvesi , Ernő Kovács** University of Miskolc, Hungary
Comparing Actuator Models
- 17.00 **Lajos Tóth** University of Miskolc, Hungary
Developing a Wavelet-Based Tool for Detecting Faults in Induction Motors
- 17.20 **Csaba Blága** University of Miskolc, Hungary
Reactive Power Analysis of Single Phase Power Control - The 5th Part
- 17.40 *Summary*

MECHATRONICS AND LOGISTICS SYMPOSIUM

Chairman: Béla ILLÉS *professor*

I: APPLIED INFORMATION ENGINEERING

VENUE: Lecture hall IV., Bld. A/1. mezzanine 1.

Chairman: László DUDÁS *assoc. professor*

Secretary: Pál SIMON *PhD Student*

Date: March 21, 2013

14.00 *Opening*

14.05 **Ákos Nagy, Bence Kővári** Budapest University of Technology and Economics, Hungary
A Framework to Aid Usability Testing and User Experience Measurement on Mobile Devices

14.30 **Ákos Nagy, Bence Kővári** Budapest University of Technology and Economics, Hungary
Optimizing Communication of Web Services on the .NET Platform

14.55 **Krisztián Fekete, Márton Venczel** Budapest University of Technology and Economics, Hungary
Research on Power Consumption of Mobile Phones

15.20 **Balázs Villányi, Péter Martinek, Béla Szikora** Budapest University of Technology and Economics, Hungary
Supervised Learning Based Schema Matching Using Component Results

15.45 *Break*

16.00 **Róbert Angeli, András Fekete** Budapest University of Technology and Economics, Hungary
Innolearn Project: Innovative Mobile Educational Games Using Brain-Computer Interface

16.25 **Péter Fehér, László Lengyel** Budapest University of Technology and Economics, Hungary
Investigating the Performance of the VF2 Algorithm in Case of Symmetric Graphs

16.50 **Silviu Marin Nan, Aron Poanta, Dan Liviu Dandea, Bogdan Simon** University of Petrosani, Romania
Monitoring the Cutting Teeth Wear and the Working Plane of a Bucket Wheel Excavator Using Digital Vision Cameras

17.15 **Szilárd Szopkó** University of Miskolc, Hungary
Data Acquisition and Control Softwares in Laboratorial Enviroments

17.40 *Summary*

MECHATRONICS AND LOGISTICS SYMPOSIUM

Chairman: Béla ILLÉS *professor*

I: APPLIED INFORMATION ENGINEERING

VENUE: Lecture hall IV., Bld. A/1. mezzanine 1.

Chairman: László DUDÁS *assoc. professor*

Secretary: Pál SIMON *PhD Student*

Date: March 22, 2013

- 9.00 **Péter Bikfalvi, Ferenc Erdélyi, Tibor Tóth** University of Miskolc, Hungary
Some Considerations on Functional Analysis of Production Systems in the View of MES Applications
- 9.25 **Péter Balázs Pribula, László Kovács** University of Miskolc, Hungary
Embedded Mathematical Formulae for HTML Documents
- 9.50 **Gábor Szabó, László Kovács** University of Miskolc, Hungary
Solving the Forecasting Problem with Artificial Neural Networks
- 10.15 *Break*
- 10.30 **Gábor Szemán, László Kovács** University of Miskolc, Hungary
Text Mining in Legal Free Text Documents
- 10.55 **Pál Simon** University of Miskolc, Hungary
Exploration of TABU Search Algorithm Implementation Modes on GPU
- 11.20 *Summary*

MECHATRONICS AND LOGISTICS SYMPOSIUM

Chairman: Béla ILLÉS *professor*

J: MATERIAL FLOW SYSTEMS. LOGISTICAL INFORMATION TECHNOLOGY AND TECHNICAL LANGUAGE

VENUE: Room 106., Bld. A/5. 1st floor, 106.

Chairman: Béla ILLÉS *professor*

Secretary: Péter TELEK *assist. professor*

Date: March 21, 2013

14.00 *Opening Ceremony*

14.15 **Elke Glistau¹, Norge Isaias Coello Machado², Béla Illes³** Otto-von-Guericke University Magdeburg, Germany¹, Central University "Marta Abreu" of Las Villas, Santa Clara, Cuba², University Miskolc, Hungary³
Evaluation in Logistics

14.30 **György Sárközi¹, Béla Illés²** Borsod Volán Public Transport Co.¹, University of Miskolc², Hungary
Telematics-Based Logistic Solutions for Demand Responsive Rural Public Transport in Hungary

14.45 **Peter Bigos, Martin Mantič, Melichar Kopas** Technical University of Košice, Slovakia
Solution of Operational Problem during Transport of Bulk Solids in Logistic Centre

15.00 **Iga Kott, Bogusława Ziólkowska, Agnieszka Wójcik-Mazur** Technological University of Częstochowa, Poland
Application of IT System in Logistics Customer Service

15.15 **Norbert Tóth, Zsolt István, Ernő Garamvölgyi, Richárd Ladányi** Bay Zoltán Nonprofit Kft., Hungary
Transnational Logistics Development by the Use of Cloud Computing and an Innovative Co-operative Business Model

15.30 *Break*

MECHATRONICS AND LOGISTICS SYMPOSIUM

Chairman: Béla ILLÉS *professor*

J: MATERIAL FLOW SYSTEMS. LOGISTICAL INFORMATION TECHNOLOGY AND TECHNICAL LANGUAGE

VENUE: Room 106., Bld. A/5. 1st floor, 106.

Chairman: Béla ILLÉS *professor*

Secretary: Péter TELEK *assist. professor*

Date: March 21, 2013

- 15.45 **Til Hennies** Otto-von-Guericke University Magdeburg, Germany
Simulation of Supply Chains Using Software MesoSim
- 16.00 **Béla Illés, Ágota Bányainé Tóth, Róbert Skapinyecz, Adél Anett Szabó** University of Miskolc, Hungary
German-Hungarian Cooperation in the PhD Education in the Field of Logistics
- 16.15 **Iga Kott, Boguslawa Ziolkowska, Agnieszka Wojcik-Mazur** Technological University of Częstochowa, Poland
Role of a Process-Oriented Organization in Business Value-Based Management
- 16.30 **Peter Bigos, Roman Tonhajzer, Melichar Kopas, Michal Puškár** Technical University of Košice, Slovakia
Data Composition of Engine Management for Racing Motorbike
- 16.45 **Richárd Ladányi, László Bárány** Bay Zoltán Nonprofit Ltd. for Applied Research, Hungary
Logistic Infrastructure of Danubean Ports, Port Operation Models
- 17.00 **Tamás Hartványi, András Zoltán Nagy** Széchenyi István University, Hungary
Efficiency Traps In Supply Chain
- 17.15 *Debate/Summary*

MECHATRONICS AND LOGISTICS SYMPOSIUM

Chairman: Béla ILLÉS *professor*

J: MATERIAL FLOW SYSTEMS. LOGISTICAL INFORMATION TECHNOLOGY AND TECHNICAL LANGUAGE

VENUE: Room 106.. Bld. A/5. 1st floor, 106
Chairman: Ágota BÁNYAINÉ TÓTH *assoc. professor*
Secretary: Róbert SKAPINYECSZ *researcher*

Date: 22 March, 2013

- 9.00 Erika Kegyesné Szekeres, Mária Illésné Kovács University of Miskolc, Hungary
Discursive Characteristics of Scholarly Articles on Logistics. Conducting a Survey on German Logistics Literature
- 9.15 Ildikó Balázs Budapest Business School, Hungary
Summary of the Responses for the Survey on the Information Technology Background of Supply Chain Management in the Hungarian Industry
- 9.30 Péter Telek, Péter Bozzay University of Miskolc, Hungary
Application of a Design Method of Integrated Material Flow Systems at the University of Miskolc
- 9.45 Ágota Bányainé Tóth¹, Tamás Bányai¹, Béla Illés¹, Ákos Gubán² University of Miskolc¹, Budapest Business School, Hungary
Development of e-Learning Curricula in the Field of Logistics
- 10.00 Tibor Jedlicska, Róbert Skapinyecz University of Miskolc, Hungary
Introduction of Modern Warehouse-Automation Technologies
- 10.15 *Break*
- 10.30 Péter Telek, Tamás Bányai University of Miskolc, Hungary
Complex Design of Integrated Material Flow Systems
- 10.45 László Kota, Károly Jármái University of Miskolc, Hungary
Adaptive Methods in the Optimization of Large Scale Technical Inspection and Maintenance Systems
- 11.00 Szabolcs Szabady, Péter Tamás University of Miskolc, Hungary
Simulation of a Maintenance System
- 11.15 Tibor Jedlicska, Róbert Skapinyecz University of Miskolc, Hungary
Introducing the General Architecture of Modern Automated Guided Vehicles
- 11.30 *Debate / Summary*

INNOVATIVE MECHANICAL DESIGN AND TECHNOLOGY SYMPOSIUM

Chairman: Károly JÁRMAI *professor*

K: MACHINE AND CONSTRUCTION DESIGN

VENUE: Department of Machine and Consruction Design, Bld. A/3. 1st floor, 115.

Chairman: János Ferenc SZABÓ *assoc. professor*

Secretary: Zoltán BIHARI *assist. professor*

Date: March 21, 2013

- 14.00 **Fuat Kartal¹, Hasan Gökkaya²** Kastamonu University¹, Karabuk University², Turkey
Suitable Device Design and Application for Turning with Abrasive Water Jet
- 14.20 **Cornel Brisan, Catalin-Ioan Boanta, Madalin-Florin Popa, Razvan-Vlad Vasiu** Technical University of Cluj-Napoca, Romania
Mechanical Structures Used for Driving Simulators
- 14.00 **Mustafa Refik Metlioglu¹, Mutlu Uzun¹, Hasan Gökkaya²** Karçel A.Ş¹, Karabuk University², Turkey
AA 5083 Effect of Handling Parameters on Dwarf Existence during Drilling Operations of Aluminum Alloys
- 15.00 **Ildikó Szűcs** University of Miskolc, Hungary
Investigation of Planar Plated Structures Exposed to Risk of Dust Explosion
- 15.20 **Tamás Fekete** University of Miskolc, Hungary
The Alternating Current Synchronous Hydraulic Drive
- 15.40 **Zoltán Bihari, József Szente** University of Miskolc, Hungary
Acoustical Classification of Roller Freewheels
- 16.00 **Ferenc János Szabó** University of Miskolc, Hungary
Effects of Hydrostatic Load on Stresses and Displacements of a Structure
- 16.20 *Summary*

INNOVATIVE MECHANICAL DESIGN AND TECHNOLOGY SYMPOSIUM

Chairman: Károly JÁRMAI *professor*

L: PRODUCTION ENGINEERING. MANUFACTURING SYSTEMS

VENUE: Room 1., Bld. C/1. groundfloor, 1.

Chairman: János KUNDRÁK *professor*

Co-chairman: Zebala WOJCHIECH *professor*

Secretary: Csaba FELHŐ *assist. lecturer*

Date: March 21, 2013

- 14.00 **Wojciech Zebala, Jakub Siwec, Tadeusz Otko** Cracow University of Technology, Poland
Aspects of Hard Materials Turning
- 14.15 **M. Numan Durakbasa, Gökçen Bas** Vienna University of Technology, Austria
Surface Roughness Investigation of the Cutting Edge of the High Precision Cutting Tools Enabled by Micro and Nanometrological Measurements
- 14.30 **Anatoly I. Grabchenko, Vladimir L. Dobroskok, Yaroslav N. Garashchenko, Lenmar N. Abdurajimov** National Technical University “Kharkiv Polytechnic Institute”, Ukraine
Definition of the Statistical Characteristics of the Triangulated Models at Forecasting of the Products Shaping Time
- 14.45 **Zsolt Maros, Eszter Tóth** University of Miskolc, Hungary
Investigation of the Cutting Gap at Plasma Arc and Abrasive Waterjet Cutting
- 15.00 **Benedikt Adelman, Stefan Hasenstab, Ralf Hellmann** University of Applied Sciences
Aschaffenburg, Germany
Laser Cutting of Alumina and Aluminum Nitride with a 500 W Single Mode Fiber Laser
- 15.15 **Péter Tállai, Sándor Csuka, Sándor Sipos** Óbuda University, Hungary
Observations of Heat Resistant Super Alloys Milling
- 15.30 **Wojciech Zebala, Robert Kowalczyk** Cracow University of Technology, Poland
Research of Sintered Carbides Turning with a PCD Tool
- 15.45 *Summary*

INNOVATIVE MECHANICAL DESIGN AND TECHNOLOGY SYMPOSIUM

Chairman: Károly JÁRMAI *professor*

L: PRODUCTION ENGINEERING. MANUFACTURING SYSTEMS

VENUE: Room 1., Bld. C/1. groundfloor, 1.

Chairman: János KUNDRÁK *professor*

Co-chairman: Numan M. DURAKBASA *professor*

Secretary: Csaba FELHŐ *assist. lecturer*

Date: March 21, 2013

- 16.00 **Csaba Gyenge, Vlad Murariu, Ancuta Pacurar** Technical University of Cluj-Napoca, Romania
New, Hydraulic Driven, Geotechnical Sonic Drilling Head
- 16.15 **Ferenc Dömötör** Budapest University of Technology and Economics, Hungary
Change of Vibration Spectral Components During the Process of Cutting Metal Composite Materials Having Different Hardness
- 16.30 **Sándor Bodzás¹, Illés Dudás²** College of Nyíregyháza¹, University of Miskolc², Hungary
Finite Element Method Analysis of Special Conical Transmission
- 16.45 **Gergely Dezső¹, Gyula Varga², Ferenc Szigeti¹** College of Nyíregyháza¹, University of Miskolc², Hungary
Simulation of Thermal Processes of Planing in Case of Tools Having Different Rake Angles
- 17.00 **Yuriy G. Gutsalenko, Elena K. Sevidova, Alexander V. Rudnev, Vladislav V. Ivkin, Natalya V. Kryukova** National Technical University “Kharkiv Polytechnic Institute”, Ukraine
Modernization Solutions Development to Implement the Diamond-spark Grinding
- 17.15 **V. Fedorovych, Y. Babenko, D. Romashov, V. Rusanov** National Technical University “Kharkiv Polytechnic Institute”, Ukraine
Improving the Efficiency of Using Diamond Grinding Wheels on the Organic Binder by Calculating the Rational Structure and Introduction of Ultradispersed Diamond
- 17.30 **Yuriy G. Gutsalenko** National Technical University “Kharkiv Polytechnic Institute”, Ukraine
Influence of Bonding-Material on Wheel Wear at Diamond-Spark Grinding
- 17.45 **Alexander V. Rudnev** National Technical University “Kharkiv Polytechnic Institute”, Ukraine
Surface Quality Prognostication of Superhard Materials under Diamond-Spark Grinding
- 18.00 *Summary*

INNOVATIVE MECHANICAL DESIGN AND TECHNOLOGY SYMPOSIUM

Chairman: Károly JÁRMAI *professor*

M: MATERIAL PROCESSING TECHNOLOGIES

VENUE: Room 307. Bld. A/1. 3rd floor, 307.

Chairman: Miklós TISZA *professor*

Secretary: László PRÉM *PhD Student*

Date: March 21, 2013

- 14.00 **Dezső Pék** Széchenyi István University, Hungary
Welding of Ferritic Steels with CMT-Technologies
- 14.20 **László Prém, András Balogh** University of Miskolc, Hungary
Advantages of Impulsed Energy Input for Resistance Spot Welding of Cold Stretched Mild Steel Sheets
- 14.40 **Marcell Gáspár, András Balogh** University of Miskolc, Hungary
Structural Inhomogeneities in the Heat Affected Zones of (Q+T) High Strength Steel Joints
- 15.00 **Ákos Meilinger, Imre Török** University of Miskolc, Hungary
Investigations on Material Flow with Different Tool Design at Friction Stir Welding
- 15.20 **Mária Marosné Berkes, Alexandra Kitti Németh, Lászlóné Kuzsella Zsuzsanna Koncsik**
University of Miskolc, Hungary
Analysis of Pumping Technology Problem of Transport Concrete Grade of C16/20-X0v-24-F4
- 15.40 **Miklós Tisza** University of Miskolc, Hungary
Material Developments for the Automotive Industry
- 16.00 **Ádám Dobosy, Marcell Gáspár** University of Miskolc, Hungary
Welding of Quenched and Tempered High Strength Steels with Heavy Plate Thickness
- 16.20 *Summary*

INNOVATIVE MECHANICAL DESIGN AND TECHNOLOGY SYMPOSIUM

Chairman: Károly JÁRMAI *professor*

N: FLUID AND HEAT ENGINEERING

VENUE: Lecture hall X., Bld. A/1. 2nd floor, 218.

Chairman: László BARANYI *professor*

Secretary: Zsolt MÁTRAI *PhD Student*

Date: March 21, 2013

- 14.00 **László Kalmár, Sándor Hajdú, Tibor Czibere** University of Miskolc, Hungary
Investigation of Shockless Entry Flows in Banki Turbine Runners
- 14.20 **László Kovács, Szilárd Szabó** University of Miskolc, Hungary
Challenges of Engine Downsizing
- 14.40 **Zoltán Bézi, Szabolcs Szávai, Sándor Pudmer, Szabolcs Jónás** Bay Zoltán Nonprofit Ltd. Institute for Logistics and Production Engineering, Hungary
Acoustical Simulation and Validation by Experimental Tests of Power Transformers
- 15.00 **Zsolt Mátrai, Norbert Szaszák, Szilárd Szabó** University of Miskolc, Hungary
Measuring of Velocityfield in an Artificial Medical Model
- 15.20 **Viktória Mikáczó** University of Miskolc, Hungary
Heat Transfer Coefficient of Flow in a T-Junction: Comparison of Results from Numerical Methods and Simulation Models
- 15.40 **Eugene Retsinis, John Demetriou** National Technical University of Athens, Greece
Geometry of Inclined Flows beyond Submerged Jumps over Sills
- 16.00 *Summary*

INNOVATIVE MECHANICAL DESIGN AND TECHNOLOGY SYMPOSIUM

Chairman: Károly JÁRMAI *professor*

O: APPLIED MECHANICS

VENUE: Room 439. Bld. A4. 4th floor, 439.

Chairman: György SZEIDL *professor*

Secretary: Dániel BURMEISTER *assist. lecturer*

Date: March 21, 2013

- 14.00 György Szeidl, Nóra Szűcs University of Miskolc, Hungary
Vibration of Circular Plates Subjected to Constant Radial Load in Their Plane
- 14.20 Ioan Száva¹, Radu Necula¹, Adrian Burnariu², Botond-Pál Gálfi¹, Sorin Vlase¹, Iosif Samota¹
Transilvania University of Brasov¹, Carol Davila University, Bucharest², Romania
New Optical Method for the High-Efficiency Evaluation of the Long Fractured Human Bones' Fixation Systems
- 14.40 Attila Baksa, István Ecsedi University of Miskolc, Hungary
Determination of the Thermal Stresses in Solid Circular Cylinder Subjected to Periodic Surface Temperature
- 15.00 Sorin Vlase, Horatiu Teodorescu-Draghicescu, Purcărea Ramona, Ioan Száva, Vasile Gheorghe
Transilvania University of Brasov, Romania
Mechanical Tests on Four Layers CSM600 Glass Fiber-Reinforced Polyester Resin
- 15.20 Dániel Burmeister University of Miskolc, Hungary
Stability of Shell-Stiffened Circular Plates
- 15.40 *Break*
- 16.00 Dávid Gönczi, István Ecsedi University of Miskolc, Hungary
The Determination of Thermoelastic Stresses and Displacements in Layered Spherical Bodies
- 16.20 László Kiss University of Miskolc, Hungary
Stability of Heterogeneous Curved Beams - A Nonlinear Formulation of the Problem
- 16.40 Ákos József Lengyel, István Ecsedi University of Miskolc, Hungary
Statics of the Composite Beams having not Perfect Connection on Its Total Length
- 17.00 Ákos Cservenák, László Rónai, Attila Olasz, Tamás Szabó University of Miskolc, Hungary
Kinematical Analysis and Simulation of a Fanuc Robot
- 17.20 Carmelo Mihai Ridzi, Itu Vilhelm, Iosif Dumitrescu University of Petrosani, Romania
Calculation of Loads Transmitted to the Winding Installations Tower Depending on the Real Tachogram of the Winding Cycle
- 17.40 *Summary*

P: LEGAL SCIENCE

VENUE: Faculty of Law, Bld. A/6. groundfloor 31.

Chairman: Zoltán NAGY *assoc. professor*

Secretary: Zoltán VARGA *assist. professor*

Date: March 21, 2013

- 15.00 **Éva Erdős** University of Miskolc, Hungary
Analysis of the Incompatible State Aids Criteria's in a Case of the European Court of Justice
- 15.20 **Zoltán Nagy** University of Miskolc, Hungary
Establishment and Development of Regulation of Environmental Protection Product Charges
- 15.40 **Edit Zsuzsanna Tárczy** University of Miskolc, Hungary
Genetic Testing for Consumers
- 16.00 **Ágnes Váradi** Institute for Public Policy Research, Hungary
Legal Aid for Legal Persons?
- 16.20 **Andrea Bokros** Miskolc District Court, Hungary
State Debt and the Debt Rising Affairs of Municipalities
- 16.40 **Diána Szekeres** Budapest Business School, Hungary
Requirement on an Equal Treatment the Equal Treatment Authority Proceedings
- 17.00 **Oana Dumitrescu Ravas** University of Petrosani, Romania
Aspects of Comparative Law on Matrimonial Property Regimes Utility and Application
- 17.20 **Marijeta Vitez Pandžić, Mirjana Jeleč Raguž** University of Applied Sciences in Požega, Croatia
Development Tendencies of Self-Governing Units in the Republic of Croatia
- 17.40 **Márk Gyovai¹, Gusztáv Kiss-Kondás²** University of Miskolc¹, Independent Court Bailiff², Hungary
Rights and Obligations of the Subjects in the Electronic Auction System of Hungarian Court Bailiffs Chamber - with Special Regard to the Bailiffs
- 18.00 **Zoltán Varga** University of Miskolc, Hungary
An Overview of the Pension Contributions
- 18.20 *Summary*

CHALLENGES OF INNOVATIVE PRODUCTION – SERVICE AND INSTITUTIONAL OPERATION IN THE FRAME OF INFORMATION SOCIETY SYMPOSIUM

Chairman: György KOCZISZKY *professor*

Q: ECONOMIC CHALLENGES IN THE 21st CENTURY

VENUE: Lecture hall V., Bld. A/1. mezzanine 3-4.

Chairman: István KUNOS *assoc. professor*

Secretary: András KERCHNER *assist. lecturer*

Date: March 22, 2013

- 8.30 **Tünde Bajzát** University of Miskolc, Hungary
Work-Related Values in Practice
- 8.45 **Péter Sasvári** University of Miskolc, Hungary
The Penetration of Information Systems in Small and Medium-Sized Enterprises in Poland and Hungary: A Comparative Study
- 9.00 **Mirjana Hladika, Hrvoje Percevic** Faculty of Economics and Business, Croatia
Application of the Modern Methods of Cost Management in Manufacturing Companies
- 9.15 **Robert Salek, Joanna Nowakowska-Grunt, Lucjan Kurzak** Częstochowa University of Technology, Poland
Determinants of Innovativeness for Small and Medium-sized Sector of Production Enterprises in Poland and the European Union
- 9.30 **Piotr Kuras, Piotr Tomski, Joanna Gajda** Czestochowa University of Technology, Poland
Implementation of Strategy of Sustainable Development in an Enterprise
- 9.45 **Piotr Tomski, Piotr Kuras, Joanna Gajda** Czestochowa University of Technology, Poland
Project Management Sustainability in Construction Industry
- 10.00 **Joanna Gajda, Piotr Kuras, Piotr Tomski** Czestochowa University of Technology, Poland
Selected Problems of Organizational Change Management
- 10.15 **Tamás Koltai, Rita Györkös** Budapest University of Technology and Economics, Hungary
Analysis of the Efficiency of Task Assignment in the Presence of Learning Effect
- 10.30 **Tamás Koltai, Judit Uzonyi-Kecskés** Budapest University of Technology and Economics, Hungary
Analysis of the Learning Process in a Production Simulation Game with Dea Using Cumulated Data
- 10.45 *Break*

CHALLENGES OF INNOVATIVE PRODUCTION – SERVICE AND INSTITUTIONAL OPERATION IN THE FRAME OF INFORMATION SOCIETY SYMPOSIUM

Chairman: György KOCZISZKY *professor*

Q: ECONOMIC CHALLENGES IN THE 21st CENTURY

VENUE: Lecture hall V., Bld. A/1. mezzanine 3-4.

Chairman: István KUNOS *assoc. professor*

Secretary: András KERCHNER *assist. lecturer*

Date: March 22, 2013

- 11.00 **Joanna Gajda** Czestochowa University of Technology, Poland
Career Development of Company Employee
- 11.15 **Joanna Gajda** Czestochowa University of Technology, Poland
Professional and Social Adaptation of Newly Employed Workers into Company
- 11.30 **Zoltán Sebestyén, Rita Lippaiová** Budapest University of Technology and Economics, Hungary
Green Construction Project Management
- 11.45 **Zoltán Sebestyén** Budapest University of Technology and Economics, Hungary
Project Success Factors and Criteria
- 12.00 **Zoltán Eperjesi** Fővárosi Közterület-fenntartó Zrt., Hungary
Competitiveness of the European Union within the Global Challenges
- 12.15 **Angéla Mokrainé Orosz** University of Miskolc, Hungary
Performance Measurement of Employees in the Service Sector
- 12.30 **Kinga Feksz, Zsuzsanna Dabasi Halász** University of Miskolc, Hungary
"Conscience of Society". The Role of the NGOS in the Labour Market of Miskolc's Brownfields
- 12.45 **Zsuzsa Majoros** University of Miskolc, Hungary
Information Technology Systems Used by the German and Hungarian Enterprises
- 13.00 *Summary*

R: HUMANITIES AND SOCIAL SCIENCES

VENUE: Room 11., Bld. A/1. mezzanine 11.
Chairman: Sarolta SIMIGNÉ FENYŐ *assoc. professor*
Secretary: Márk FENYŐ *PhD Student*

Date: March 21, 2013

- 14.00 **Erika Kegyesné Szekeres, Mária Illésné Kovács** University of Miskolc, Hungary
Businesswomen. Sociometry of the Image of Woman through a Survey of German Business Magazines
- 14.20 **Kinga Szabó-Tóth** University of Miskolc, Hungary
The Maintainance of Roma Identity in Miskolc from a Sociological Perspective
- 14.40 **Andrea Kovácsné Duró** University of Miskolc, Hungary
The School Fears of Teacher Students
- 15.00 *Break*
- 15.30 **Sarolta Simigné Fenyő** University of Miskolc, Hungary
Intercultural Implications of Keeping Silent
- 15.50 **Attila Dósa** University of Miskolc, Hungary
Austen's Rhetoric and Varieties of Discourse in the 18th Century English Novel
- 16.10 **András Szopó** National University of Ungvar, Ukraine
"Svoboda" Political Party in the Parliament of Ukraine (2012/2013)
- 16.30 *Break*
- 16.50 **Todea Ciprian-Emilian** Babes-Bolyai University, Romania
Centralization, Local Autonomy, Regional Politics in the Habsburg Empire: The Case of Church Union in Transylvania
- 17.10 **Floarea Elena Trișcaș** Babes-Bolyai University, Romania
Sanitary Policies and Measures in Transylvania under Habsburg Rule in Eighteenth and Nineteenth Centuries. Case Study: Bistrita (Beszterce) Region
- 17.30 **Mihalache Robert Marius** Babes-Bolyai University, Romania
The "Legation" of King Bela IV in the Bulgarian Tsarate (1238)
- 17.50 *Summary*

R: HUMANITIES AND SOCIAL SCIENCES

VENUE: Room 11., Bld. A/1. mezzanine 11.
Chairman: Sarolta SIMIGNÉ FENYŐ *assoc. professor*
Secretary: Márk FENYŐ *PhD Student*

Date: March 22, 2013

- 9.00 Márk Fenyő University of Miskolc, Hungary
Communicative and Cultural Aspects of the Current Financial Crisis
- 9.20 Zoltán Eperjesi Fővárosi Közterület-fenntartó Zrt., Hungary
The Role of the State in the Economy
- 9.40 Csaba Domán, Redi Myshketa University of Miskolc, Hungary
Modelling the Opinion of Households about the Expenses of Flat Maintenance
- 10.00 Ágnes Tutuskó Pázmány Péter Catholic University, Hungary
The Political, Social and Economic Position of the Sub-Carpathian Jews at the Turn of 19-20 Century
- 10.20 *Summary*

S: MEDICAL AND HEALTH SCIENCE

VENUE: Room 12., Bld. A/1. mezzanine 12.
Chairman: László BARKAI *professor*
Secretary: Andrea LUKÁCS *lecturer*

Date: March 21, 2013

- 14.00 **Zsolt Karácsony¹, Imre Tóth², Géza Szűcs², János Sümegi³, János Hanyik², Péter Orosz³** University of Miskolc¹, Semmelweis Teaching Hospital², Borsod-Abaúj-Zemplén County Hospital³, Hungary
Surgery of Advanced Esophageal Cancer in North-Eastern Hungary
- 14.20 **Ildikó Faragó¹, Sándor Márton², Ferenc Túry³, Gábor Nagy³, Melinda Madléna³** University of Miskolc¹, University of Debrecen², Semmelweis University³, Hungary
Relationship of Oral Health, Smoking and Other Habits among Law Enforcement Secondary School Students
- 14.40 **Kinga Kálcza-Jánosi¹, Andrea Lukács², László Barkai², István Szamosközi¹** Babes-Bolyai University, Romania¹, University of Miskolc, Hungary²
Association between Diabetes-Related Knowledge and Glycemic Control in Patients with Diabetes in Transylvania
- 15.00 **Melinda Leskó¹, Zsolt Gábor Szabó¹, Ernő Kovács¹, Ferenc Kazacsay², Livia Tar²** University of Miskolc¹, Borsod-Abaúj-Zemplén County Hospital², Hungary
Research in the Electrotherapy of Distal and Radius Fractures Treated with Implant
- 15.20 **Éva Farkas, Emőke Kiss-Tóth, Ágnes Podhorszky, János Demeter** University of Miskolc, Hungary
Fulfilment of the Eighth Grade Romany Students' Further Education Plans
- 15.40 **Szilvia Ligetvári, János Demeter, Emőke Kiss-Tóth** University of Miskolc, Hungary
Allergy in Infancy and Childhood
- 16.00 *Discussion / Summary*

OPTIONAL PROGRAMME

The Organisational Committee of the Conference would like to make your stay more pleasant by organising the

microCAD Party

19.30, 21 March 2013

Venue: Main Building A/4. Assembly Hall (*Entry: only with invitation cards*)

Programme

<i>19³⁰ - 19⁵⁰</i>	<i>Musical Performance Offered by Students of Bartók Béla Institute for Music</i>
<i>19⁵⁰ - 20⁰⁰</i>	<i>Inauguration of the honorary members of the microCAD</i>
<i>20⁰⁰ - 20¹⁰</i>	<i>Awarding the microCAD Memory Prize</i>
<i>20¹⁰ - 21⁴⁵</i>	<i>Dinner</i>

Excursion to TOKAJ REGION

22 March 2013

<i>Departure:</i>	13.30
<i>Arrival in Miskolc:</i>	22.00
<i>Meeting place:</i>	outside the Main Building entrance of the university

Programme

Arrival in Tokaj at about 14.30, taking a short walk in the 18th-century city centre. Leaving for Sárospatak at about 15.15. Visiting the Rákóczi Castle Museum (including its Lórántffy Loggia, Perényi Wing and Red Tower), one of the most important centres of 16-18th-century Hungarian history. Leaving at about 17.00 for Szegi Wine Cellar, owned by the largest Hungarian vintner enterprise. Visit to the cellar, then wine tasting followed by the dinner at the nearby Várhegy (Castlehill) Restaurant in Tolcsva, a marvellous settlement of the Tokaj-Wine Region World Heritage.