University of Miskolc, Hungary

MultiScience - XXVIII. microCAD International Multidisciplinary Scientific Conference 10-11 April 2014

PROGRAMME
**SCIENTIFIC COMMITTEE OF THE CONFERENCE**

<table>
<thead>
<tr>
<th>Chairman:</th>
<th>Tamás KÉKESI</th>
<th>Pro-Rector for International Relations and Scientific Affairs</th>
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<tr>
<td>Members:</td>
<td>Péter SZŰCS</td>
<td>Dean of the Faculty of Earth Science and Engineering</td>
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<tr>
<td></td>
<td>Zoltán GÁCSI</td>
<td>Dean of the Faculty of Materials and Metallurgical Engineering</td>
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<td></td>
<td>Edgárd BERTÓTI</td>
<td>Dean of the Faculty of Mechanical Engineering and Informatics</td>
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<td></td>
<td>Ákos FARKAS</td>
<td>Dean of the Faculty of Law</td>
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<td>György KOCZISZKY</td>
<td>Dean of the Faculty of Economics</td>
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<td>Mária KOVÁCS ILLÉS</td>
<td>Dean of the Faculty of Humanities</td>
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<td>Emőke KISS-TÓTH</td>
<td>Dean of the Faculty of Health Sciences</td>
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DETAILED PROGRAMME
of the MultiScience - XXVIII. microCAD International Multidisciplinary Scientific Conference
University of Miskolc, 10-11 April 2014

10 April (Thursday) 2014

10\textsuperscript{00} – 10\textsuperscript{10}  International Scientific Conference
Opening address
András TORMA – professor, Rector of the University of Miskolc
Venue: Lecture hall III., Bld. A/4. ground floor

PLENARY SESSION
Venue: Lecture hall III., Bld. A/4. ground floor

10\textsuperscript{10} – 10\textsuperscript{50}  Tomas HAVLIK professor, Technical University of Kosice, Slovakia
Perspectives of Metal Bearing Wastes Recycling

10\textsuperscript{50} – 11\textsuperscript{30}  Péter SZŰCS professor, dean, University of Miskolc, Hungary
The Role of Hydrogeology in the Carpathian Basin

11\textsuperscript{30} – 12\textsuperscript{10}  János FÖLDESSY professor, University of Miskolc, Hungary
From the Past to the Future - Strategic Raw Materials Research Programs in the University of Miskolc

12\textsuperscript{10} – 12\textsuperscript{30}  Break

12\textsuperscript{30} – 13\textsuperscript{30}  Reception
Venue: Main Building A/4. Assembly Hall (Entry: only with invitation cards)

13\textsuperscript{30} – 14\textsuperscript{00}  Break

14\textsuperscript{00} – 18\textsuperscript{00}  Presentations in the parallel sessions
Venue: as listed in the section table

19\textsuperscript{00} – 21\textsuperscript{30}  Gala Dinner
Venue: Main Building A/4. Assembly Hall (Entry: only with invitation cards)

21\textsuperscript{45} - 24\textsuperscript{00}  Party
Venue: Main Building A/4. Assembly Hall

11 April (Friday) 2014

9\textsuperscript{00} - 12\textsuperscript{00}  Presentations in the parallel sessions
Venue: as listed in the section table

12\textsuperscript{00} - 14\textsuperscript{00}  Lunch break

14\textsuperscript{00} - 18\textsuperscript{00}  Presentations in the parallel sessions
Venue: as listed in the section table

OPTIONAL PROGRAMME

11 April 2014  13\textsuperscript{30} - 22\textsuperscript{00}  Excursion to EGER
REGISTRATION FOR THE CONFERENCE

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

Registration is open:

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
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<tr>
<td>09 April (Wednesday) 2014</td>
<td>--- 12:00 - 19:00</td>
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<tr>
<td>10 April (Thursday) 2014</td>
<td>8:00 - 12:30  13:30 - 17:00</td>
</tr>
<tr>
<td>11 April (Friday) 2014</td>
<td>8:00 - 11:00  ----</td>
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ORGANISATIONAL COMMITTEE OF THE CONFERENCE

The organiser of the Conference is the UNIVERSITY OF MISKOLC

Address of the Scientific and Organisational Committee:
University of Miskolc, Rector’s Office, International Affairs Team
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
<table>
<thead>
<tr>
<th>Sign</th>
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<th>Venue</th>
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<tbody>
<tr>
<td>Plenary</td>
<td>Plenary session</td>
<td>Lecture hall III. Bld. A/4. ground floor</td>
</tr>
<tr>
<td>A1</td>
<td>Environmental Science</td>
<td>Lecture hall VII. Bld. A/1. 1st floor, 102.</td>
</tr>
<tr>
<td>B1</td>
<td>Applied Materials Science and Nanotechnologies</td>
<td>Káldor Mihály Room Bld. B/1. ground floor</td>
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<tr>
<td>C1</td>
<td>Logistics</td>
<td>Room 106. Bld. A/5. 1st floor, 106.</td>
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<tr>
<td>C3</td>
<td>Electrical Engineering and Informatics</td>
<td>Room 311. Bld. A/1. 3rd floor, 311</td>
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<tr>
<td>D1</td>
<td>Innovative manufacturing technologies</td>
<td>Room 44. Bld. A/4. ground floor, 44.</td>
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<tr>
<td>E</td>
<td>Legal Sciences</td>
<td>Faculty of Law Bld. A/6. groundfloor 31.</td>
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<tr>
<td>H</td>
<td>Health and Medical Sciences</td>
<td>Bosch Room Bld. B3-B4. 2nd floor, 207.</td>
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SUSTAINABLE NATIONAL RESOURCES MANAGEMENT SYMPOSIUM

Chairman: László TIHANYI professor

A/1: ENVIRONMENTAL SCIENCE

Venue: Lecture hall VII., Bld. A/1. 1st floor, 102.
Chairman: Ljudmilla BOKÁNYI assoc. professor
Secretary: Terézia VARGA researcher

Date: 10 April, 2014

14.00 Ferenc Kovács, Sándor Kocsis, Richárd Tompa University of Miskolc, Hungary
Ground Water Quality Analysis in Mine-Dewatering

14.20 Ferenc Kovács, Sándor Kocsis, Richárd Tompa University of Miskolc, Hungary
Characteristics of Ground Water in Lignite Strip Mine Dewatering

14.40 József Kovács, András József, András Endre, Tomuş Ovidiu-Bogdan University of Petrosani, Romania
Laboratóriumi vizsgálatok a kőső mechanikai tulajdonságainak meghatározására

15.00 Monika Strzeleckyk, Joanna Nowakowska-Grunt Częstochowa University of Technology, Poland
Influence of Road Transport on the Environment - Poland Against the European Union

15.20 Break

15.40 Dandea Liviu Dan, Silviu Marin Nan, Adian Schopu, Adrian Bogdan Simon University of Petrosani, Romania
The Design of a Bucket Wheel Excavator Boom Position Determination System Using Digital Inspection Cameras

16.00 Erika Kun ISD POWER Ltd., Hungary
Energy Efficiency Enhancement of the Hot Rolling Mill

16.20 Roland Szabó, Gábor Mucsí, Ákos Debreczeni, Zoltán Molnár University of Miskolc, Hungary
Development of Lignite Based Geopolymer

16.40 Break

17.00 Zoltán Molnár, Gábor Mucsí, András Papp University of Miskolc, Hungary
Landfilled Brown Coal Fly Ash Based Geopolymer

17.20 Zoltán Pap University of Miskolc, Hungary
New Approach of the Evaluation of Eddy Current Separator

17.40 Katalin Bohács, Gábor Mucsí University of Miskolc, Hungary
Special Applications of Stirred Media Milling

18.00 Summary
SUSTAINABLE NATIONAL RESOURCES MANAGEMENT SYMPOSIUM

Chairman: László Tihanyi professor

A/1: ENVIRONMENTAL SCIENCE

VENUE: Lecture hall VII., Bld. A/1. 1st floor, 102.
Chairman: Ljudmilla Bokányi assoc. professor
Secretary: Terézia Varga researcher

Date: 11 April, 2014

9.00 Andrea Kolencesikné Tóth, Péter Szűcs University of Miskolc, Hungary
Analysing the Flood Effect on Relationship Between the River Danube and a Shallow Aquifer

9.20 Zoltán Fejes, Péter Szűcs University of Miskolc, Hungary
Hydrochemical Investigations in the Tokaj-mountain

9.40 Nóra Gonda, István Székely University of Miskolc, Hungary
Using Bentonite-sand Mixtures as Fill Material in Cutoff Wall

10.00 Anett Kiss, Judit Molnár Somogyi University of Miskolc, Hungary
A New Rock Physical Model to Describe the Pressure Dependence of Lamé Constants

10.20 Krisztina Beáta Faur University of Miskolc, Hungary
Evaluation of Soilvision’s SVSlope with a Case Study by Geo-slope’s SLOPE/W

10.40 Break

11.00 Hajnalka Szegedi University of Miskolc, Hungary
Examination the Noise Reduction Capability of the Inversion Based Fourier-transform

11.20 Zoltán Szamosi, Zoltán Siménfalvi University of Miskolc, Hungary
Torrefaction of Wheat Straw

11.40 Réka Horváth University of Miskolc, Hungary
Geochemical Comparison of the Pécs-Szabolcs and Pécs-Vasas Coal Areas, Hungary

12.00 Attila Horváth, György Less, Réka Horváth University of Miskolc, Hungary
Xenoliths of the Tokaj Mountains

12.20 Summary
SUSTAINABLE NATIONAL RESOURCES MANAGEMENT SYMPOSIUM

Chairman: László TIHANYI professor

A/2: ENERGY MANAGEMENT

Chairman: László TIHANYI professor
Secretary: Valéria Mádai Üveges assist. lecturer

Date: 10 April, 2014

14.00 Boris Mastobaev, Ayrat Shammazov Ufa State Petroleum Technological University, Russia
Monitoring of Paraffin Precipitation in Offshore Pipelines

14.20 Aron Poanta, Silviu Marin Nan, Adrian Bogdan Simon, Dan Liviu Dandea University of Petrosani, Romania
Experimental and Theoretical Research Regarding the Function of a Telemetric Monitoring System in the Jiu Valley Mines

14.40 Adrian Bogdan Simon, Silviu Marin Nan, Liviu Dan Dandea, Adrian Schiopu University of Petrosani, Romania
Research Regarding the Operation of a Carbon Monoxide Stationary Analyzer in Terms of Jiu Valley Coalfield Mines

15.00 Ion Dosa University of Petrosani, Romania
Power Plant Waste Heat Recovery for Household Heating Using Heat Pumps

15.20 Oksana Seroka-Stolka, Katarzyna Brendzel-Skowera, Katarzyna Łukasik Czestochowa University of Technology, Poland
Determinant Factors of Proactive Corporate Environmental Management

15.40 László Winkler-Sátor¹, Árpád Bence Palotás² UNI-FLEXYS Ltd.¹, University of Miskolc², Hungary
Problems of Data Matching in the Analysis of Ash Fusion Test Results

16.00 Break
SUSTAINABLE NATIONAL RESOURCES MANAGEMENT SYMPOSIUM

Chairman: László TIHANYI professor

A/2: ENERGY MANAGEMENT

Chairman: László TIHANYI professor
Secretary: Valéria Mádai Üveges assist. lecturer

Date: 10 April, 2014

16.20 Nemes Alex, Árpád Bence Palotás University of Miskolc, Hungary
Alternative Method for Measuring the Physical Parameters of the Lower Troposphere

16.40 Gábor Nagy, Ágnes Woperáné Serédi University of Miskolc, Hungary
Canteen Waste as a Basic Material for Producing Syngas

17.00 Ádám Koncz University of Miskolc, Hungary
An Improved Prime Mover Parameter Estimation Process for Sucker Rod Pumping Units

17.20 László Kis University of Miskolc, Hungary
Comparison of Beam Acceleration Calculation Models

17.40 Tamás Magyar¹, József Faitli², Roland Róbert Romenda¹, Attila Erdélyi² University of Miskolc¹, A.S.A. Hungary Ltd.², Hungary
Investigation of Temperature Distribution Arising from Decomposition Processes and Heat Extraction Potential of the Gyál Municipal Solid Waste Landfill

18.00 László Kapás¹, Anikó Tóth¹, Zoltán Német² University of Miskolc¹, Magyar Földgáztároló Zrt.², Hungary
Pipeline Inspection with a New Developing Method

18.20 Summary
APPLIED MATERIALS SCIENCE AND NANOTECHNOLOGY SYMPOSIUM

Chairman: Tamás TÖRÖK professor

B1: APPLIED MATERIALS SCIENCE AND NANOTECHNOLOGIES

VENUE: Káldor Mihály Room, Bld. B/1, ground floor
Chairman: Valéria MERTINGER professor
Secretary: Tamás MENDE assist. professor

Date: 10 April, 2014

14.00 Monika Mende-Tokár, György Fegyverneki, Valéria Mertinger University of Miskolc, Hungary
Analysis of the Common Modification Effect of Strontium And Antimony on the Structure in Case of AlSi8Cu3 Alloy

14.15 Tamás Mikó, Péter Barkóczy University of Miskolc, Hungary
A Microstructural Evaluation During Dynamic Recrystallization in 5182 Aluminium Alloy

14.30 Ádám Egész1, Viktória Veréb2 GE Hungary Ltd1, University of Miskolc2, Hungary
Optimization of the Process of Alumina Injection Molding Using Design of Experiment

14.45 Viktória Veréb1, Ádám Egész2 University of Miskolc1, GE Hungary Ltd2, Hungary
Development of Porous Alumina Ceramics Using Biomaterial Based Additives

15.00 Kinga Mizser-Tomolya, Dóra Janovszky, Anna Sycheva, András Roósz MTA-ME Materials Science Research Group, Hungary
Studying Amorphous-crystalline Transitions in Powders Caused by Ball-milling

15.15 Erzsébet Nagy1, Valéria Mertinger2, Márton Benke1, Ferenc Tranta1 MTA-ME Materials Science Research Group1, University of Miskolc2, Hungary
Investigation of Martensitic Transformation in FeMnCr TWIP Steels

15.30 Ádám Filep1, Márton Benke2, Valéria Mertinger1, Gábor Búza1 University of Miskolc1, MTA-ME Materials Science Research Group2, Bay Zoltán Nonprofit Ltd.2, Hungary
Investigation of Residual Stress Distribution by X-ray Diffraction Method in Laser Hardened Plain Carbon Steel

15.45 Break
APPLIED MATERIALS SCIENCE AND NANOTECHNOLOGY SYMPOSIUM

Chairman: Tamás TÖRÖK professor

B1: APPLIED MATERIALS SCIENCE AND NANOTECHNOLOGIES

VENUE: Káldor Mihály Room, Bld. B/1, ground floor
Chairman: Valéria MERTINGER professor
Secretary: Tamás MENDE assist. professor

Date: 10 April, 2014

16.00 Péter Urbán, Éva Kun, Tibor Ferenczi, Dániel Sós, Tamás I. Török University of Miskolc, Hungary
Atmospheric Pressure Plasma Cleaning of Steel Plates from Organic Contaminations

16.15 Éva Kun¹, Tamás Török¹, Dániel Sós¹, Máté Szabó¹, Attila Csik², József Hakl², K. Vad²
University of Miskolc¹, MTA ATOMKI², Hungary
Investigation of Immersion Silver Coatings Developed on Microelectronic-grade Copper Foils

16.30 Gergely Bálint Tóth¹, Masahito Uchikoshi², Tamás Kékesi¹
University of Miskolc¹, Tohoku University, Japan²
Potentiodynamic Analysis of Polarization Properties Influencing Cathodic Deposition in Tin-chloride – HCl Solutions

16.45 Mariann Kollár¹, Balázs Bencsk²
University of Miskolc¹, University of West Hungary², Hungary
Modified Wood Fiber Reinforced Poly(lactic Acid) Composites

17.00 Gabriella Zsoldos, Anita Broda, Mariann Kollár
University of Miskolc, Hungary
Alginate Modified UHMWPE Biomaterial

17.15 Summary
APPLIED MATERIALS SCIENCE AND NANOTECHNOLOGY SYMPOSIUM

Chairman: Tamás TÖRÖK professor

B2: APPLIED MATERIALS SCIENCE AND NANOTECHNOLOGIES

VENUE: Room 312, Bld. B/1. 3rd floor, 312.
Chairman: Tamás TÖRÖK professor
Secretary: Éva KUN PhD Student

Date: 11 April, 2014

9.00 Greta Maruskinova¹, Frantisek Kukurugya¹, Ludovit Paríšak², Tomas Havlík¹ Technical University of Kosice¹, ZP Research and Development Centre², Slovakia
Material Recycling of EAF Steelmaking Dust

9.15 Alois Unger, Stefan Steinelechner, Juergen Antrekowitsch University of Leoben, Austria
Upgrade of Wox with High Energy Solar Radiation

9.30 Tibor Kulesár, Tamás Kékesi University of Miskolc, Hungary
Experimental Monitoring and Evaluation of the Electrode Processes in Tin Electrorefining

9.45 Gernot Rössler, Christoph Pichler, Jürgen Antrekowitsch University of Leoben, Austria
Recycling of Metallurgical Wastes by a Sustainable Ironbath Process with Special Focus on the Carburization Step

10.00 Zita Takacova, Tomas Havlik, Tomas Vindt Technical University of Kosice, Slovakia
Recovery of Metals From Active Mass of Spent Li-ion Accumulators

10.15 Dumitru Jula, Diana Sălășan, Laura Ionescu, Marian Pulbere University of Petrosani, Romania
The Use of Reverse Osmosis in the Treatment of Wastewater from the Uranium Processing Plants

10.30 Ovidiu Bogdan Tomus, Dumitru Jula, Laura Ionescu, Diana Salasan University of Petrosani, Romania
Wastewater Treatment from Uranium Processing Plant Using Ultra-filtration System

10.45 Break

11.00 Agnesa Doráková, Tamás Kékesi University of Miskolc, Hungary
Solubilization of Tin and Aluminium Oxide Drosses Obtained from Metal Melting

11.15 Zoltán Harangi, Tamás Kékesi University of Miskolc, Hungary
Conversion of Tin Dioxide Drosses Obtained from Soldering Scrap by Reduction and Alkaline Fusion

11.30 Róbert Móger¹, Ottó Farkas² ISD DUNAFERR Co.¹, University of Miskolc², Hungary
Effect of Blast Furnace Shaft Accretion for Co-utilization

11.45 Róbert Móger¹, Ottó Farkas², Zsolt Csepe³, Oszkár Grega² ISD DUNAFERR Co.¹, University of Miskolc², Hungary
Investigation of Blast Furnace Tuyere Erosion Process

12.00 Koppány Levente Juhász University of Miskolc, Hungary
The Dependence of Superparamagnetic Iron-oxide Nanoparticles’ Aggregation on Ph

12.15 Summary
MECHATRONICS AND LOGISTICS SYMPOSIUM

Chairman: Béla ILLÉS professor

C1: LOGISTICS

VENUE: Room 106., Bld. A/5. 1st floor, 106
Chairman: Béla ILLÉS professor
Secretary: Péter TELEK assist. professor

Date: 10 April, 2014

14.00 Opening Ceremony

14.05 Elke Glistau¹, Michael Schenk¹, Norge Isaias Coello Machado² Otto-von-Guericke University, Germany¹, Central University “Marta Abreu” of Las Villas, Santa Clara, Cuba² Quality Management, Logistics and Strategies

14.20 Joanna Nowakowska-Grunt, Dorota Jelonek, Cezary Stepiak Czestochowa University of Technology, Poland Innovation Co-creation in E-business. Customer Perspective

14.35 Sylwia Legowik-Swiacik, Marlena Grabowska Czestochowa University of Technology, Poland Opportunities for Application of Modern Instruments of Management in the Field of Green Logistics

14.50 Elke Glistau¹, Norge Isaias Coello Machado², Béla Illé³ Otto-von-Guericke University, Germany¹, Central University “Marta Abreu” of Las Villas, Santa Clara, Cuba², University of Miskolc, Hungary³ Logistics Planning Process and Kanban

15.05 Tomasz Lis, Agnieszka Wójcik-Mazur Czestochowa University of Technology, Poland The Effectivity of Logistics Customer Service and Shaping Organization’s Competitive Advantage

15.20 Marta Kadlubbek Czestochowa University of Technology, Poland The Supply Chain in the Future and Sustainable Development

15.35 Agata Mesjasz-Lech, Beata Skowron-Grabowska Czestochowa University of Technology, Poland Waste Flows in the Channels of Reverse Logistics - a Quantitative Analysis for Poland in Contrast to Selected European Countries

15.50 Break
**MECHATRONICS AND LOGISTICS SYMPOSIUM**

**Chairman:** Béla ILLÉS professor

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### C1: LOGISTICS

**VENUE:** Room 106., Bld. A/5. 1st floor, 106  
**Chairman:** Béla ILLÉS professor  
**Secretary:** Péter TELEK assist. professor

**Date:** 10 April, 2014

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<th>Time</th>
<th>Speaker(s)</th>
<th>Institution(s)</th>
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<tr>
<td>16.00</td>
<td>Sylwia Legowik-Swiacik, Helena Kościelniak</td>
<td>Czestochowa University of Technology, Poland</td>
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<td><em>Innovativeness in Entrepreneurial Orientation of Polish Enterprises</em></td>
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<tr>
<td>16.15</td>
<td>Dinescu Stela, András Andrei</td>
<td>University of Petrosani, Romania</td>
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<td><em>Modeling the Coal Wining Equipment for Increase Work Effectiveness and Reduce Energy Consumption</em></td>
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<tr>
<td>16.30</td>
<td>Péter Telek</td>
<td>University of Miskolc, Hungary</td>
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<td><em>Design Properties of Materials Handling Machines</em></td>
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<tr>
<td>16.45</td>
<td>Norbert Tóth</td>
<td>Bay Zoltán Nonprofit Ltd., Hungary</td>
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<td><em>Simulation of Industrial Waste Transport</em></td>
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<td>17.00</td>
<td>Balázs Villányi, Péter Martinek, Béla Szikora</td>
<td>Budapest University of Technology and Economics, Hungary</td>
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<td><em>Using the Anfis for the Mitigation of the Bullwhip-effect in Supply Chains</em></td>
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<tr>
<td>17.15</td>
<td>Richárd Ladányi</td>
<td>Bay Zoltán Nonprofit Ltd., Hungary</td>
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<td><em>Vehicle Route Planning on the Base of Geospatial Information System</em></td>
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<tr>
<td>17.30</td>
<td>István Lakatos, Dávid Czeglédi</td>
<td>Széchenyi István University, Hungary</td>
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<td><em>Parameterization of Affecting Factors Concerning the Consumption Standard Calculation Model of Vehicles in Fleet Operation</em></td>
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<tr>
<td>17.45</td>
<td>Summary</td>
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**MECHATRONICS AND LOGISTICS SYMPOSIUM**

**Chairman:** Béla ILLÉS *professor*

**C2: NATURAL SCIENCE**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>14.00</td>
<td><em>Opening Ceremony</em></td>
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</table>
| 14.05 | István Rácz, Wigner FK, Hungary  
 *On the Nature of Geometric Determinacy* |
| 14.20 | László Ujfaludi, Eszterházy Károly College, Hungary  
 *Visiting Science Museums in Australia and Europe* |
| 14.35 | János Majár, University of Miskolc, Hungary  
 *Laboratories of the Physics Department at the University of Miskolc: Challenges and Possibilities* |
| 14.50 | Endre Kovács¹, Michael Forrester², Feodor Kusmartsev², University of Miskolc, Hungary¹, Loughborough University, United Kingdom²  
 *Numerical Simulation of Antiferromagnetically Coupled Nanomagnets* |
| 15.05 | Béla Paripás, Béla Palásthy, University of Miskolc, Hungary  
 *Experimental *(e,2e)* Study of Exchange Interference: I. the Constant Ionic State Method* |
| 15.20 | Béla Paripás, Béla Palásthy, University of Miskolc, Hungary  
 *Experimental *(e,2e)* Study of Exchange Interference: II. Results and Discussion* |
| 15.35 | *Break* |
| 15.50 | Zsolt Karácsény, Dávid Hamar, University of Miskolc, Hungary  
 *Comparison of Kernels Used in Kernel Smoothing* |
| 16.00 | Bettina Porvázsnyik, István Fazekas, University of Debrecen, Hungary  
 *The Asymptotic Behaviour of the Weights and the Degrees in an N-interactions Random Graph Model* |
| 16.15 | Attila Házy, Judit Makó, University of Miskolc, Hungary  
 *On Hermite-Hadamard Type Inequalities* |
| 16.30 | Judit Makó, Attila Házy, University of Miskolc, Hungary  
 *On Strongly Convex Functions* |
| 16.45 | *Summary* |
MECHATRONICS AND LOGISTICS SYMPOSIUM

Chairman: Béla ILLÉS professor

C3: ELECTRICAL ENGINEERING AND INFORMATICS

VENUE: Room 311., Bld. A/1. 3rd floor 311.
Chairman: Ernő KOVÁCS assoc. professor
Secretary: Csaba BLÁGA assoc. professor

Date: 10 April, 2014

14.00 Opening Ceremony

14.05 Tamás György, Károly-Ágoston Bíró Technical University of Cluj-Napoca, Romania

MMF Harmonics Investigation on Fractional Slot Windings

14.25 Csaba Blága University of Miskolc, Hungary

Reactive Power Analysis of Single Phase Power Control - The 6th Part

14.45 Viliam Fedák1, Fetyko Ján1, Jezný Jaromír2, Róbert Üveges3 Technical University of Kosice1, ZTS VVU Kosice, A.s.2, Slovakia

Control Strategy Principles of Leg Motion Control in a Six-legged Robotic Vehicle

15.05 Viliam Fedák, Godem A. Ismeal, Karol Kyslan Technical Unniversity of Kosice, Slovakia

System Identification by the Least Squares Method Applied to a PM DC Motor

15.25 Gábor Fekete University of Miskolc, Hungary

Interpretation of Maxwell’s Work Based on Unified Theory of Energy (UNITHE)

15.45 Break

16.05 Ákos Nagy, Bence Kövári Budapest University of Technology and Economics, Hungary

Cost Optimization of Cloud Applications by Servie Provider Neutral Scaling

16.25 István Ferenczi College of Nyíregyháza, Hungary

Programmable Logic Controllers as Real-time Industrial Ethernet Base System Devices

16.45 Roland Kilik, László Czap University of Miskolc, Hungary

Measuring the Relation Between Gestures and Stresses by Time-domain Sliding

17.05 Attila Károly Varga University of Miskolc, Hungary

ZigBee Wireless Communication Standard

17.25 László Rónai, Ildikó Bölkény University of Miskolc, Hungary

Regulation of an Inhibitor Dosing System

17.45 Ákos Cservenák, Ildikó Makó, Tibor Csáki University of Miskolc, Hungary

Creating a Virtual Robotic Cell with Robotexpert Software System

18.00 Summary
INNOVATIVE MECHANICAL DESIGN AND TECHNOLOGY SYMPOSIUM

Chairman: Károly JÁRMAI professor

D1: INNOVATIVE MANUFACTURING TECHNOLOGIES

Venue: Room 44. Bld. A/4. ground floor, 44.
Chairman: Miklós TISZA professor
János KUNDRÁK professor
Secretary: László PRÉM engineer

Date: 10 April, 2014

14.00 Ádám Dobosy, Gyula Nagy, János Lukács University of Miskolc, Hungary
LCF Experiments on Different Yield Strength Steels and Their Welded Joints

14.15 Zsolt Lukács, Gaszton Gál, Miklós Tisza University of Miskolc, Hungary
New Equipment for Measuring Large Strain Cyclic Tension-compression Testing of Sheet Metal

14.30 Ákos Meilinger University of Miskolc, Hungary
Finite Element Modeling of Friction Stir Welding

14.45 Nóra Nagy University of Miskolc, Hungary
Development of Human Implants

15.00 László Prém University of Miskolc, Hungary
Spot Welding Experiments on Automotive Dual-phase Steel Sheets

15.15 Miklós Tisza, Péter Z. Kovács, Zsolt Lukács University of Miskolc, Hungary
Hot Press Forming in Sheet Metal Forming

15.30 Zoltán Vass, Mária Berkes Marosné, Csaba Felhő, Zsolt Maros University of Miskolc, Hungary
Correlation between the Wear Characteristics and Surface Roughness Parameters of Nitrocarburized 34CrMo4 Steels

15.45 Alexandra Kittí Németh, Mária Berkes Marosné University of Miskolc, Hungary
Improvement of the Tribological Performance of Si3N4/Mg Nanocomposites by Spark Plasma Sintering

16.00 Break
INNOVATIVE MECHANICAL DESIGN AND TECHNOLOGY SYMPOSIUM

Chairman: Károly JÁRMAI professor

D1: INNOVATIVE MANUFACTURING TECHNOLOGIES

VENUE: Room 44, Bld. A/4, ground floor, 44.
Chairman: Miklós TISZA professor
   János KUNDRÁK professor
Secretary: László PRÉM engineer

Date: 10 April, 2014

16.20 Gergely Dezső, Ferenc Szigeti, Attila Százvai College of Nyíregyháza, Hungary
   Investigation on Force Demand of Steel Planing

16.40 Sándor Bodzás1,2, Illés Dudás1,2 Nyíregyházi Főiskola1, University of Miskolc2, Hungary
   Production Technology of Spiroid Worm Surface Using Grinding Wheel Banking Angle Correction

17.00 Wojciech Zębala, Robert Kowalczyk Cracow University of Technology, Poland
   Analysis of Cutting Data and Nose Radius Influence on WC-Co Turning Process with PCD Tools

17.20 Wojciech Zębala, Bogdan Słodki, Grzegorz Struzikiewicz Cracow University of Technology, Poland
   Examples of Disturbances in Cutting Force Measurement in Inconel 625 Turning

17.40 Anatoly Grabchenko, Vladimir Fedorovich, Ivan Pyzhov National Technical University, Ukraine
   Increase in Working Capacity of Diamond Dressers

18.00 Summary
INNOVATIVE MECHANICAL DESIGN AND TECHNOLOGY SYMPOSIUM

Chairman: Károly JÁRMAI professor

D2: FLUID AND HEAT ENGINEERING

Chairman: Szilárd SZABÓ professor
Gábor JANIGA professor
Secretary: Zsolt MÁTRAI PhD Student

Date: 10 April, 2014

14.00 Péter Bakucz, József Zoltán Szabó Óbuda University, Hungary
Real-time Knock Detection of Large Gas Engines By Nonlinear Filtering of the Vibration Signal

14.15 István Bodnár University of Miskolc, Hungary
Energy Efficiency Analysis of the Thermic Treatment Process

14.30 András Gulyás, Márton Balczó Budapest University of Technology and Economics, Hungary
Development of a Small Blower-type Wind Tunnel for Educational Purposes

14.45 Sándor Hajdú, Tibor Czibere, László Kalmár University of Miskolc, Hungary
Bánnki Turbine Design Data Optimization to Ensure Angular Momentum Free Flow at Runner Outlet

15.00 Gábor Janiga Otto-von-Guericke University of Magdeburg, Germany
Turbulent Flow Simulation in a Pipe Based on Large Eddy Simulation

15.15 Krzysztof Jesionek¹, Janusz Badur², Agata Rusnarczyk¹, Artur Babul¹, Adam Wierciak¹
Wrocław University of Technology¹, Institute of Fluid Flow Machinery PAS-ci, Gdańsk², Poland
The Effects of Parameters of Organic Fluids on the Design of an Axial Turbine

15.30 Break

15.45 László Kovács, Szilárd Szabó University of Miskolc, Hungary
Steady State Airflow Characteristics of a Dual Port Cylinder Head of a High Speed IC Engine

16.00 Zsolt MÁTRAI University of Miskolc, Hungary
Development of the Fuel System of Sinlge Cylinder Diesel Engine for Fuel Consumption Measurements

16.15 Norbert Szaszák, Szilárd Szabó University of Miskolc, Hungary
Experimental Study of Elastic Tapes in Wind Tunnel as Turbulence Generator

16.30 András Tomor, Márton Balczó Budapest University of Technology and Economics, Hungary
Wind Tunnel Modelling of Ventilation Around an Urban Square

16.45 John Demetriou, Eleni Belia, Nikos Karveleas, Eugene Retsinis JD Research Hydrolab, Greece
Experiments and Computations in Water Flows Within a Smooth Boundaries' Rectangular Open Channel - Boundary Shear Stresses

17.00 John Demetriou, Eugene Retsinis JD Research Hydrolab, Greece
Flowing Water’s Velocity Structure within Partly Filled Circular Channels

17.15 Summary
INNOVATIVE MECHANICAL DESIGN AND TECHNOLOGY SYMPOSIUM

Chairman: Károly JÁRMAI professor

D3: INNOVATIVE ENGINEERING DESIGN AND DEVELOPMENT

Chairman: Károly JÁRMAI professor
László KAMONDI assoc. professor
Secretary: László KOTA engineer

Date: 11 April, 2014

9.00 Pál Bánlaki, Ferenc Dömötör  Budapest University of Technology and Economics, Hungary
Some Current Problems of Data Acquisition for Vibration Diagnostics

9.20 Zoltán Bihari, József Szente  University of Miskolc, Hungary
Classification of Clutches Using New Criteria

9.40 Ferenc János Szabó  University of Miskolc, Hungary
Optimization Possibilities of Shaft-Bearing System

10.00 Ágnes Takács  University of Miskolc, Hungary
On Design for the Environment

10.20 Károly Jármaj, Gábor Zoltán Marcsák, Csaba Barcsák  University of Miskolc, Hungary
New Evolutionary Optimization Techniques and Test Functions for Their Evaluation

10.40 Break

11.00 Károly Jármaj, József Farkas, György Kovács, Zoltán Virág  University of Miskolc, Hungary
Our Newest Results on the Field of Structural Optimization

11.20 László Kota, Károly Jármaj  University of Miskolc, Hungary
Discretization of the Firefly Algorithm for the Travelling Salesman Problem

11.40 János Száva1, Károly Jármaj2, Tibor Bondár3, Sorin Vlase1, Péter Dani1, András Kakucs4, Horatiu Teodorescu-Drăghicescu1, Renata Munteanu1, Botond Pál Gálfi1 Transilvania University of Brasov, Romania1, University of Miskolc, Hungary2, Protecting Coatings Nyirtelek, Hungary3, Sapientia University of Targu-Mures, Romania4
New Testing Device for Validation of the Intumescent Paints’ FEM Modelling

12.00 Sorin Vlase, Horatiu Teodorescu-Drăghicescu, Ioan Száva, Botond-Pál Gálfi, Renata Munteanu, Carol Ambrus, Mirecu Ivanou Transilvania University of Brasov, Romania
Twelve Plies R300 Glass Fabric-reinforced Polyte 440-M888 Composite Laminated Subjected to Tensile Load on Warp Direction

12.20 Viktória Mikáczó, Ildikó Szücs  University of Miskolc, Hungary
Hydrodynamic and Static Investigation of Vent Duct in Case of Dust Explosion

12.40 Summary
INNOVATIVE MECHANICAL DESIGN AND TECHNOLOGY SYMPOSIUM

Chairman: Károly JÁRMAI professor

D4: MECHANICAL MODELLING AND FINITE ELEMENT SIMULATION

Chairman: György SZEIDL professor
Edgár BERTÓTI professor
Secretary: Dániel BURMEISTER assist. lecturer

Date: 11 April, 2014

9.00 Dániel Burmeister University of Miskolc, Hungary
Buckling of Annular Plates with Intermediate Shell-stiffening

9.20 Dávid Gönczi University of Miskolc, Hungary
The Determination of Displacement Field and Normal Stresses in Multilayered Spherical Bodies

9.40 Dávid Gönczi University of Miskolc, Hungary
Thermoelastic Analysis of Layered Disks

10.00 Ákos József Lengyel, István Ecsedi University of Miskolc, Hungary
Elastic Stability of Columns with Weak Shear Connection

10.20 Radu Sorin Mihai, Tanasoiu Bogdan, Stanila Sorina University of Petrosani, Romania
Theoretical and Experimental Study of the Bearing Structure of Tank Wagon

10.40 Break

11.00 Szabolcs Szávai, Lajos György Kocsán Bay Zoltán Nonprofit Ltd., Hungary
Mesh Generation for Lubricated Contact Problem

11.20 György Szeidl, László Kiss University of Miskolc, Hungary
Stability Analysis of Pinned-Pinned Shallow Circular Beams Under a Central Concentrated Load

11.40 Sándor Szirbik University of Miskolc, Hungary
Hypersingular Integral Equations of Plane Elasticity in a Dual Formulation

12.00 Balázs Tóth University of Miskolc, Hungary
Notes on Dual and Mixed Functionals in Linear Elastodynamics

12.20 Summary
LEGAL SCIENCES SYMPOSIUM

Chairman: Zoltán ANGYAL assoc. professor

E: LEGAL SCIENCES

VENUE: Faculty of Law, Bld. A/6. groundfloor 31.
Chairman: Zoltán ANGYAL assoc. professor
Secretary: Nóra JAKAB assist. professor

Date: 10 April, 2014

14.00 Anita Paulovics University of Miskolc, Hungary
Animal Cruelty in the USA

14.15 Nóra Jakab University of Miskolc, Hungary
Broad Concept of the Employee Status

14.30 Adrienn Jámbor University of Miskolc, Hungary
The Changing of Definition on “Dangerous Dogs” (in Hungarian Law)

14.45 Emese Bátyi University of Miskolc, Hungary
The System of Scientific Qualification – Russia, Germany, Scandinavia

15.00 Break

15.10 Zoltán Nagy University of Miskolc, Hungary
Environmental Taxes from the Point of View of the Environmental Protection

15.25 Ágnes Váradi HAS Centre for Social Sciences Institute for Legal Studies, Hungary
The European Union’s Jurisdictional Rules on Legal Disputes of Insurance

15.40 Adrienn Jámbor University of Miskolc, Hungary
Organizational System of Hungarian Veterinary Chamber

15.55 Edit Zsuzsanna Tárczy Government Office of Szabolcs-Szatmár-Bereg Megye, Hungary
Reorganization of the Associations in 2013 with Regard to the Problems (in Connection with Szabolcs-Szatmár-Bereg Megye)

16.10 Break
LEGAl SCIENCES SYMPOSIUM

Chairman: Zoltán ANGYAL assoc. professor

E: LEGAL SCIENCES

VENUE: Faculty of Law, Bld. A/6, groundfloor 31.
Chairman: Zoltán ANGYAL assoc. professor
Secretary: Nóra JAKAB assist. professor

Date: 10 April, 2014

16.20 Andrea Erzsébet Bokros Miskolc District Court, Hungary
Standard Control Activity and Review of Local Tax Regulations of Local Government Council of the Kurie

16.35 Zoltán Rácz University of Miskolc, Hungary
The Actual Questions of the Hungarian Labour Relations in the Public Area

16.50 Anita Paulovics University of Miskolc, Hungary
Comparative Dog Law: US and Hungary

17.05 Andrea Erzsébet Bokros Miskolc District Court, Hungary
The Separation of Court Mediation and Civil Litigious Procedure

17.20 Nóra Jakab University of Miskolc, Hungary
Employment of Disadvantaged People - Practical Issues

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

**Chairman:** Éva G. FEKETE *professor*

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**F: ECONOMIC CHALLENGES IN THE 21st CENTURY**

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<td>Anna Lemanska-Majdzik, Piotr Tomski, Piotr Kuras</td>
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CHALLENGES OF INNOVATIVE PRODUCTION – SERVICE AND INSTITUTIONAL OPERATION IN THE FRAME OF INFORMATION SOCIETY SYMPOSIUM

Chairman: Éva G. FEKETE professor

F: ECONOMIC CHALLENGES IN THE 21st CENTURY

VENUE: Room 11., Bld. A/1. mezzanine 11.
Chairman: Péter SASVÁRI assoc. professor
Secretary: Ádám BERECZK assist. lecturer

Date: 10 April, 2014

16:45 Mirjana Hladika, Hrvoje Perčević University of Zagreb, Croatia
The Potential and the Most Common Problems in the Calculation of Economic Value Added

17:00 Joanna Gajda Czestochowa University of Technology, Poland
Intellectual Capital Management as a Key Factor of Organization’s Value Shaping

17:15 Joanna Gajda Czestochowa University of Technology, Poland
Organizational Climate as a Determinant of Organization’s Effectiveness Improvement

17:30 Seweryn Cichoń Czestochowa University of Technology, Poland
School Management in the Aspect of Enterprising Actions

17:45 Seweryn Cichoń Czestochowa University of Technology, Poland
School Management Orientated on Innovation

18:00 Monika Strzelczyk, Robert Salek, Anna Wiśniewska-Salek Częstochowa University of Technology, Poland
Innovation in the Perspective of Local Development

18:15 Péter Sasvári University of Miskolc, Hungary
The Analysis of the It Infrastructure Among Smes in the Visegrád Group of Countries

18:30 Ádám Bereczk University of Miskolc, Hungary
Correlation Between Investment and Staff Cost in Hungarian Manufacturing

18:45 Summary
HUMANITIES AND SOCIAL SCIENCES SYMPOSIUM

Chairman: Ágnes MAGNUCZNÉ GODÓ assoc. professor

VENUE: Room 12., Bld. A/1. mezzanine 12.
Chairman: Ágnes MAGNUCZNÉ GODÓ assoc. professor
Secretary: Tünde BAJZÁT assist. professor

Date: 10 April, 2014

14.00 Andrea Kovácsné Duró University of Miskolc, Hungary
Pedagogical Effects and Reactions

14.15 Ágnes Magnuczné Godó University of Miskolc, Hungary
To ELF or not to ELF? Teachers’ Perspectives on the Pedagogical Relevance of English as a Lingua Franca

14.30 Tünde Bajzát University of Miskolc, Hungary
Student Mobility: Trends, Reasons, Benefits and Implications for Tertiary Education

14.45 Break

15.00 Edit Spiczéné Bukovszki University of Miskolc, Hungary
Self-regulated Learning in Higher Education Language Pedagogy

15.15 Katalin Torkos College of Nyíregyháza, Hungary
Socio-cultural Characteristics of Students Preferring E-learning Subjects – at the Department of Social Pedagogy, College of Nyiregyhaza –

15.30 Júlia Szabó Eötvös Loránd University, Hungary
Our European Stories Through the Lenses of Prix Europa Radio Documentaries

15.45 Break
HUMANITIES AND SOCIAL SCIENCES SYMPOSIUM

Chairman: Ágnes MAGNUCZNÉ GODÓ assoc. professor

G: HUMANITIES AND SOCIAL SCIENCES

VENUE: Room 12., Bld. A/1. mezzanine 12.
Chairman: Ágnes MAGNUCZNÉ GODÓ assoc. professor
Secretary: Tünde BAJZÁT assist. professor

Date: 10 April, 2014

16.00 Agnieszka Wójcik-Mazur, Justyna Łukomska-Szarek Czestochowa University of Technology, Poland
Implementation of Managerial Techniques in the Operation of the Polish Tax Authorities

16.15 Katarzyna Brendzel-Skowera, Katarzyna Łukasik, Oksana Seroka-Stolka Czestochowa University of Technology, Poland
Managing an Academic Business Incubator – Case Study

16.30 Izabela Krawczyk-Sokołowska, Halina Tomczyk Czestochowa University of Technology, Poland
The Role of Human Resources in an Innovation Enterprise

16.45 Break

17.00 Agnieszka Wójcik-Mazur, Justyna Łukomska-Szarek Czestochowa University of Technology, Poland
Performance-based Budgeting in the Process of Management of Entities of Local Governments

17.15 Katarzyna Łukasik, Katarzyna Brendzel-Skowera, Oksana Seroka-Stolka Czestochowa University of Technology, Poland
The Corporate Culture Based on the Example of PKN Orlen

17.30 László Molnár University of Miskolc, Hungary
How to Measure and what Factors Influence Economic and Social Benefit of Innovations

17.45 Réka Kissné Zsámboki University of West Hungary, Hungary

18.00 Summary
HEALTH AND MEDICAL SCIENCES SYMPOSIUM

Chairman: Olivér RÁCZ professor

VENUE: Room BOSCH, Bld. B3-B4, 2nd floor, 207.
Chairman: Olivér RÁCZ professor
Secretary: Andrea LUKÁCS lecturer

Date: 10 April, 2014

14.00 Kinga Kálcza-Jánosi¹, Andrea Lukács², László Barkai², István Szamoskőzi¹ Babes-Bolyai University, Cluj-Napoca, Romania¹, University of Miskolc, Hungary²
Glucose Metabolism and Memory Functions in Adults with Type 1 Diabetes Mellitus

14.15 Andrea Lukács, Emőke Kiss-Tóth, László Barkai University of Miskolc, Hungary
Insulin Pump Versus Multiple Daily Injections in Youths with Type 1 Diabetes

14.30 Olivér Rácz¹,², Marcela Linková², Lydia Cisláková², Krzysztof Jakubowski³ University of Miskolc, Hungary¹, Safarik University Kosice, Slovakia², State Higher Vocational School, Sanok, Poland³
Clinical and Psychological Factors Associated with Quality of Life in Patients with Diabetes Mellitus

14.45 Krzysztof Jakubowski¹, Marcela Linková², Lydia Cisláková², Denisa Maceková², Olivér Rácz¹,²,³ State Higher Vocational School, Sanok, Poland¹, Safarik University Kosice, Slovakia², University of Miskolc, Hungary³
Factors Associated with Self-Rated Health Quality in Patients with Diabetes Mellitus

15.00 Discussion

15.30 Break

15.45 Olivér Rácz¹, Peter Kružliak² University of Miskolc, Hungary¹, St. Anne’s University Hospital, Brno, Czech Republic²
The Role of Calcium-Binding Protein S100B in Neurodegenerative Diseases

16.00 Erika Pálová¹, Eva Pálová²,³, Ján Sabo¹ Pavol Jozef Safarik University of Kosice¹, L. Pasteur University Hospital, Kosice², Epamed Ltd. Kosice³, Slovakia
Neurobiology of Suicidal Behaviour - The Serotonergic System

16.15 Eva Pálová¹,², Peter Mirossay¹ L. Pasteur University Hospital, Kosice¹, Epamed Ltd. Kosice³, Slovakia
Changes in Polysomnography after a Single Dose of Trazodone 75 Mg in Depressive Patients with Insomnia - Pilot Study

16.30 Numan M. Durakbasa¹, Göken Bas¹, Erol Güclü¹, Wolfgang Pirker² Vienna University of Technology¹, Face Your Face Handels GmbH², Austria
An Innovative Technique for Successful Clinical Dental Implantation by Means of Quality Control and Surface Characterization Analyze

16.45 Veronika Rajkó, Zoltán Balogh, Judit Mészáros Semmelweis University, Hungary
Hungarian Health Care Workers’ Knowledge Regarding Blood Donation Based on a Survey

17.00 Discussion

17.30 Summary
OPTIONAL PROGRAMME

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

Gala Dinner
19.00, 10 April 2014

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

Programme

19.00 - 19.30  Performance of Miskolc Percussions Band
19.30 - 19.40  Inauguration of the honorary members of the conference
19.40 - 19.50  Awarding the Conference Memory Award
20.00 - 21.30  Dinner

Party
21.45, 10 April 2014

Venue: Main Building A/4. Assembly Hall

Excursion to EGER

11 April 2014

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