

**"Lucian Blaga" University of Sibiu - Romania**

**"Hermann Oberth" Faculty of Engineering**

**Manufacturing Science Department**

**Teachers Training Department**

**with**

**AGH University of Science and Technology Krakow - Poland**

**and the support of**

**Educational, Research and Innovation Ministry of Romania**

**Romanian National Agency for Scientific Research (ANCS)**

**The Manufacturing Engineering University Association (AUIF)**

**European Society for Engineering Education**

**General Association of Romanian Engineers**

**VDI - Association of German Engineers - Group Romania**

# **Conference Program**

**4<sup>th</sup> INTERNATIONAL CONFERENCE ON  
MANUFACTURING SCIENCE  
AND EDUCATION  
- MSE 2009 -  
TRENDS IN ENGINEERING AND  
ACADEMIC EDUCATION**

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**4<sup>th</sup>-6<sup>th</sup> June 2009**

**Sibiu, Romania**

***4<sup>th</sup> INTERNATIONAL CONFERENCE ON MANUFACTURING SCIENCE AND EDUCATION  
- MSE 2009 -  
TRENDS IN ENGINEERING AND ACADEMIC EDUCATION***

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**4<sup>th</sup> INTERNATIONAL CONFERENCE ON MANUFACTURING SCIENCE AND EDUCATION**  
**- MSE 2009 -**  
**TRENDS IN ENGINEERING AND ACADEMIC EDUCATION**

**SESSIONS PROGRAM**

<b>Wednesday</b> <i>June 03<sup>th</sup>, 2009</i>	<b>Thursday</b> <i>June 04<sup>th</sup>, 2009</i>	<b>Friday</b> <i>June 05<sup>th</sup>, 2009</i>	<b>Saturday</b> <i>June 06<sup>th</sup>, 2009</i>
Wednesday Evening	<b>9.30-10.00</b>  <b>Opening Ceremony</b>  "Avram Iancu" Hall	<b>8.30-10.30</b> <b>Parallel Session Papers</b>	<b>9.00-10.30</b> <b>Workshop</b> Potential for Cooperation between Universities "Avram Iancu" Hall
<b>Reception</b> <b>Engineering</b> <b>Faculty</b> <b>15.00-20.00</b>	<b>10.00-11.15</b>  <b>Plenary Session</b>	<b>Session C2</b> Research Activity in Technical Universities <b>Room IM 323</b>	<b>9.00-10.30</b> <b>Workshop</b>  Education Aspects in On-Line Learning
	<b>11.15-11.45</b>  <b>Coffee Break</b>	<b>Session D2</b> Management, Modelling and Monitoring of Manufacturing Process <b>Room IM 201</b>	<b>Senat Hall</b>
	<b>11.45 – 13.00</b>  <b>Plenary Session</b>	<b>Session F2</b> Safety and Health at Work <b>Room IM 302</b>	<b>11.00-12.00</b>  <b>Closing Ceremony</b>  "Avram Iancu" Hall
<b>Reception</b> <b>Cocktail</b> <b>Senior</b> <b>Common Room</b> <b>19.30</b>	<b>13.00-15.00</b> <b>Lunch</b>  University Restaurant	<b>Session K2</b> Quality Management <b>Room IM 301</b>	
	<b>15.00-17.30</b>  <b>Parallel Session Papers</b>	<b>11.00-13.00</b>  <b>Workshop</b>  Digital Factory  <b>Room IM 301</b>	
	<b>Session A</b> Academic Education <b>Room IM 222</b>	<b>Session B</b> Academic Management <b>Room IM 202</b>	
		<b>11.00-13.00</b> <b>Workshop</b> "Research, Education and Innovation on FP7 Program" <b>Room IM 222</b>	

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<b>Wednesday</b> <i>June 03<sup>th</sup>, 2009</i>	<b>Thursday</b> <i>June 04<sup>th</sup>, 2009</i>	<b>Friday</b> <i>June 05<sup>th</sup>, 2009</i>	<b>Saturday</b> <i>June 06<sup>th</sup>, 2009</i>
	<b>Session C1</b> Research Activity in Technical Universities <b>Room IM 323</b>	<b>Session D1</b> Management, Modelling and Monitoring of Manufacturing Processes <b>Room IM 201</b>	<b>11.00-13.00</b>  <b>Workshop</b>  Creative, development and perspectives in Industrial Engineering - AUIF Meeting  <b>Senate Hall</b>
	<b>Session E1</b> Management and Economical Engineering Processes <b>Room IM 301</b>	<b>Session F1</b> Safety and Health at Work <b>Room IM 302</b>	<b>11.00-13.00</b>  <b>Workshop</b> Biomedical Engineering  <b>Room IM 201-IM 117</b>
	<b>15.00-17.30</b> <b>Workshop</b>  Intellectual Property – Actuality and Perspective in the Economy Based on Knowledge  <b>Room L1 Banatului</b>	<b>11.00-13.00</b>  <b>Workshop</b>  Management of Conflicts in Educational System  <b>Room IM 323</b>	
	<b>17.30-18.00</b>  <b>Coffee Break</b>	<b>13.00-15.00</b>  <b>Lunch</b> <b>University Restaurant</b>	
	<b>18.00-19.00</b>  <b>Parallel Session Papers</b>	<b>15.00-17.00</b>  <b>Parallel Session Papers</b>	
	<b>Session G</b> E-learning <b>Room IM 222</b>	<b>Session H</b> Partnership between Universities and Companies <b>Room IM 202</b>	<b>Session D3</b> Management, Modelling and Monitoring of Manufacturing Processes <b>Room IM 201</b>
			<b>Session C3</b> Research Activity in Technical Universities <b>Room IM 323</b>
	<b>Session I</b> Biomedical Engineering <b>Room IM 323</b>	<b>Session J</b> Virtual Manufacturing, Digital Factory <b>Room IM 201</b>	<b>Session E2</b> Management and Economical Engineering <b>Room IM 301</b>
			<b>Session F3</b> Safety and Health at Work <b>Room IM 302</b>



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<b>Wednesday</b> <i>June 03<sup>th</sup>, 2009</i>	<b>Thursday</b> <i>June 04<sup>th</sup>, 2009</i>		<b>Friday</b> <i>June 05<sup>th</sup>, 2009</i>	<b>Saturday</b> <i>June 06<sup>th</sup>, 2009</i>
	<b>Session K1</b> Quality Management <b>Room IM 301</b>	<b>Sessions L</b> Engineering in Oil and Gas Field <b>Room IM 302</b>	<b>17.00</b>  <b>THEATER SHOW</b>	
	<b>20.00-</b> <b>Banquet</b> <b>“Imparatul Romanilor”</b> <b>Restaurant</b>			

**Wednesday, June 03<sup>th</sup>, 2009**

**15.00 – 20.00**  
**19.30**

**Participants’ registration**  
**Welcoming cocktail**

**Engineering Faculty**  
**Senior Common Room**

**Thursday, June 04<sup>th</sup>, 2009**

**9.30 – 10.00**

**Opening Ceremony**

**„Avram Iancu” Hall**

**Constantin Oprean**  
**Dan Maniu Duse**

**Rector ULBS**  
**Vicerector ULBS - Chairman of the Conference**

**10.00-11.15**

**Plenary Session**

**„Avram Iancu” Hall**

**Ioan Bondrea, Dean of Engineering Faculty of “Lucian Blaga” University, Sibiu Romania**

*Herman Oberth Engineering Faculty Between Present and Future*

**Jerzy Wiciak, Vicedean of Robotics Mechanical and Robotics Faculty - AGH University of Science and Technology, Krakow, Poland**

*Development of institutional partnership between AGH - University of Science and Technology of Krakow and “ Lucian Blaga” University of Sibiu*

**Slobodan Navalusic, University of Novi Sad, Serbia**

*Concept of the Virtual Manufacturing*

**11.15 - 11.45**

**Coffee Break**

**11.45 – 13.00**

**Plenary Session**

**„Avram Iancu” Hall**

**Nicolae Ion Marinescu, Liviu Daniel Ghiculescu “Politehnica” University of Bucharest  
Romania**

*Performances Increase of Electrodischarge Machining Aided by Ultrasonics Based on  
Process Modelling by Finite Element Method*

**Nicolae Bâlc Head of Manufacturing Engineering Department Technical University of  
Cluj- Napoca Romania**

*Innovative Manufacturing for Rapid Product Development*

**George Draghici, Anca Draghici “Politehnica” University of Timisoara Romania**

*Education Qualification and Certification of Integrated Design Engineers*

Thursday, June 04<sup>th</sup> 2009

15.00– 19.00

**Parallel Session Papers**

Thursday, June 04<sup>th</sup> 2009

15.00– 17.30

**Session A**

**Room IM 222**

**ACADEMIC EDUCATION**

**Chairmen:**

**Nicolo Cuomo**

**Cristina Mohora**

**Daniel Mara**

**Paolo Vittoria**

1. *PRACTICAL TEACHING OF STUDENTS IN LUCIAN BLAGA UNIVERSITY COMPARED TO AMERICAN UNIVERSITIES*  
Daniela Roxana Andron, Victoria Gabriela Gruber
2. *STRATEGIES FOR PREVENTING SCHOOL VIOLENCE WHAT CAN BE ELABORATED BY DEPARTMENTS FOR TEACHER TRAINING*  
Lia Bologa, Olivia Andrei
3. *REFLECTIONS ON THE GOOD PRAXIS OF THE INCLUSION*  
Nicola Cuomo, Alice Imola
4. *DEVELOPING EVALUATIONS BY TECHNOLOGICAL MEANS*  
Sara Konnerth
5. *INSTRUMENTAL ENRICHMENT PROGRAM (R. FEUERSTEIN)-PART IN THE TEACHER TRAINING*  
Daniel Mara, Elena-Lucia Mara
6. *THE DECISION MAKING INTO THE ACADEMIC EDUCATIONAL SYSTEM REPRESENTED AS A CIBERNETIC SYSTEM*  
Liviu Mihaescu, Diana Mihaescu
7. *NEW STRATEGY TO IMPROVE THE ENGINEERING LEARNING PROCESS*  
Cristina Mohora, Oana Andreea Călin, Laura Mohora
8. *THE MANAGEMENT OF THE DIDACTIC ACTIVITY ORIENTED TOWARDS THE STUDENT*  
Carmen Maria Popa, Adriana Nicu
9. *INVOLVING IN THE PROBLEMS OF THE COMMUNITY – A WAY TO OBTAIN COMPETITIVE ADVANTAGES*  
Cosmin Tileaga
10. *PAULO FREIRE'S POLITICAL AND EDUCATIONAL PHILOSOPHY*  
Paolo Vittoria

Thursday, June 04<sup>th</sup> 2009

15.00– 17.30

Session B

Room IM 202

## ACADEMIC MANAGEMENT

**Chairmen:**

**Carmen Duse**  
**Anca Draghici**  
**Daniela Pusca**  
**Jerzey Wiciak**

1. *EDUCATION AND CONTINUOUS FORMATION OF HUMAN RESOURCES IN SUSTAINING THE HUMAN CAPITAL*  
Cătălina Bonciu, Gheorghita Căprărescu
2. *PROFESSIONAL COMPETENCES ASSESSMENT FOR THE INTEGRATED ENGINEERING IMPLEMENTATION*  
Anca Draghici, George Draghici
3. *EDUCATION QUALIFICATION AND CERTIFICATION OF INTEGRATED DESIGN ENGINEERS*  
George Draghici, Anca Draghici, Andreas Riel, Serge Tichkiewitch, Richard Messnarz
4. *HUMAN RESOURCES AND FINANCIAL PUBLIC MANAGEMENT. THE CASE OF A RESEARCH CENTER.*  
Diana-Mariana Dumitrescu, Gabriela Beatrice Nica
5. *APPLICATION ACHIEVEMENT FOR EDUCATIONAL INSTITUTION STRATEGIC PLAN DESIGNING*  
Carmen Sonia Dușe, Sorin Borza
6. *QUALITY MANAGEMENT AND CULTURE OF HIGHER EDUCATION SYSTEM*  
Mariana Iatagan, Raluca Zorzoliu
7. *THE UNIVERSITY ENTREPRENEURSHIP EDUCATION*  
Monica Izvercianu
8. *RESEARCH AND EDUCATION IN THE FACULTY OF THE MECHANICAL ENGINEERING AND ROBOTICS, AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY*  
Janusz Kowal, Jerzy Wiciak
9. *ACADEMIC YEAR BUDGET SIMULATION*  
Alexandru-Ioan Olteanu
10. *INTRODUCTION OF THE “DENTAL IMPLANTS – DESIGN AND INSERTION PROCEDURES” MASTER PROGRAM*  
Alexandru Pașa
11. *PROJECT BASED LEARNING IN ENGINEERING EDUCATION*  
Luminita Pârv, Nouras Barbu Lupulescu, Milena Folea
12. *ENGINEERING AND DESIGN: FIRST YEAR LEARNING AND DEVELOPMENT*  
Daniela Pusca, Edwin Kwan Lap Tam
13. *COMPUTER AIDED OF NC CODE PREPARATION FOR SCHOOL LATHE EMCO MAIER*  
Roman Stroka

Thursday, June 04<sup>th</sup> 2009

15.00 – 17.30

Session C1

Room IM 323

**RESEARCH ACTIVITY IN TECHNICAL UNIVERSITIES**

**Chairmen:**

**Dorel Banabic**

**Livia Beju**

**Octavian Bologna**

**Fritz Tröster**

1. *COMPUTER AIDED DESIGN AND ANALYSIS OF DYNAMIC INDUCTION HEATING*  
Mária Behúlová, Bohuslav Mašek, Lothar W. Meyer
2. *OPTIMIZATION MODEL FOR PRESTRESSED CYLINDERS*  
Dana Healy, Constantin Vasiloaica
3. *MODEL OF DYNAMICS WITHIN HIGHSPEED GRINDING PROCESS*  
Ondřej Bílek, Imrich Lukovics
4. *GENERATING CYLINDRICAL PROPELLER WITH VARIABLE-STEP LINEAR*  
Dumitru Catrina, Ștefan Velicu, Sandu Ioan Gheorghe, Lucian Mihai
5. *GEOMETRY OF CYLINDRICAL PROPELLER WITH VARIABLE-STEP LINEAR*  
Dumitru Catrina, Ștefan Velicu, Alexandru Velicu
6. RESEARCH ON AUTONOMOUS VEHICLE SYSTEMS  
Razvan Luca, Carmen Simion, Fritz Tröster, Robert Gall
7. *“E-BOMB”- TYPE EXPLOSIVE SOURCES FOR THE GENERATION OF AN ELECTROMAGNETIC PULSE (EMP)*  
Vasile Dobref, Octavian Tarabuta
8. *RESEARCHES REGARDING THE FORCES DURING GEAR GENERATION THROUGH INTERMITTENT BLOW*  
Ion Dobrescu
9. *EXPERIMENTAL RESEARCHES USING THE REFLEXIVE PHOTOELASTICITY METHOD FOR THE ANKLE FOOT ORTHOSIS*  
Marcu Frațilă, Mircea Bădescu, Valentin Oleksik, Livia Beju

Thursday, June 04<sup>th</sup> 2009

15.00 – 17.30

Session D1

Room IM 201

**MANAGEMENT, MODELING AND MONITORING OF  
MANUFACTURING PROCESS**

**Chairmen:**

**Nicolae Balc**

**Ioan Barsan**

**Eugen Strajescu**

**Aurelian Vlase**

1. *CONSIDERATIONS OVER FOR DESIGNING TECHNOLOGICAL PROCESS AN ASSEMBLING UNIT*  
Ion Dobrescu, Mihai Dobrescu
2. *ALGORITHM FOR PARALLEL PRODUCTION SCHEDULING BASED ON LINGUISTICALLY MODEL*  
Adalbert Golometry
3. *PRODUCTION MODELLING BY LINGUISTICALLY METHODS*  
Adalbert Golometry
4. *BRIEF VIEW AUTOMATED TECHNOLOGICAL PRODUCTION PREPARATION WITH ASPECT ON FORGINGS PRODUCTION DESIGN PROCESS*  
Jozef Kuba
5. *DETERMINATION OF GEOMETRIC AND CINEMATIC PARAMETERS WITHIN THE WORKSPACE OF THE IR*  
Ioan Bărsan, Ilie Popp
6. *CONSIDERATIONS REGARDING THE PRECISION OF CNC LASER CUTTING MACHINES*  
Cristina Biriş, Octavian Bologa, Radu Breaz, Claudia Girjob
7. *MODELING WITH COLOR PETRI NETS OF THE FLEXIBLE MANUFACTURING SYSTEMS USING CPN TOOLS*  
Florin Blaga, Alin Pop, Ioan Lucaciu, Alexandru-Viorel Pele
8. *KAIZEN IMPLEMENTATION TO REDUCE PRODUCTION LOSS (WASTE)*  
Constantin Bungău, Ioan Lucaciu, Rares Pancu, Macedon Ganea

Thursday, June 04<sup>th</sup> 2009

15.00 – 17.30

Session E1

Room IM 301

**MANAGEMENT AND ECONOMICAL ENGINEERING PROCESSES**

**Chairmen:**

**Luigi Dumitrescu**

**Dan Dumitrascu**

**Constantin Ispas**

1. *I-PORTAL, MANAGEMENT FRAMEWORK FOR MOBILE-BUSINESS*  
Ciprian Căndeă, Alexandru Georgescu, Gabriela Căndeă

2. *THE MANAGEMENT OF THE INFORMATIONAL RESOURCES OF ENTERPRISES*  
Marian Cristescu, Corina Cristescu, Daniel Hunyadi, Mircea Musan
3. *INDUSTRY OF EXTRACTING THE COAL AND ITS ROLE IN ASSURING THE ENERGETIC SECURITY OF ROMANIA*  
Diana Cornelia Csimminga, Sorin Iuliu Mangu
4. *GLOBAL ENGLISH: IMPROVING BUSINESS ENGLISH COMMUNICATION SKILLS IN THE ROMANIAN INDUSTRIAL AND ECONOMIC ENVIRONMENT*  
Călin Denes, Monica Cojocar
5. *HOME BANK*  
Florentina Ramona El Baaboua, Cristina Maria Titradu, Nicoleta Maria Gogaltan
6. *QUALITY GATES: A POWERFUL TOOL FOR NEW PRODUCT PROJECTS*  
Hortensia Gorski, Luigi Dumitrescu, Mircea Fuciu
7. *THE RISK IN BUSINESS – A REALITY IN PAST, PRESENT AND FUTURE*  
Iuliana Grecu, Ileana Ghiță
8. *FINANCIAL MANAGEMENT IN PUBLIC ORGANIZATIONS*  
Luminița Horhotă
9. *REENGINEERING THE COMPANY: EMPLOYEES AS A SOURCE OF COMPETITIVE ADVANTAGE*  
Adrian Ilie, Alexandra Horobet
10. *CONSIDERATIONS ON EMOTIONAL INTELLIGENCE AND OCCUPATIONAL STRESS IN A FOOTWEAR PRODUCING COMPANY*  
Liviu-Ion Roșca, Valentin Grecu, Laura Felicia Bălan
11. *THE LIE – A COMMUNICATION PROBLEM?*  
Daniela Luminița Avrigean, Liviu-Ion Roșca

**Thursday, June 04<sup>th</sup> 2009**

**15.00 - 17.30**

**Session F1**

**Room IM 302**

**SAFETY AND HEALTH AT WORK**

**Chairmen:**  
**Gabriel Babuț**  
**Lucian Ionel Cioca**

1. *ASPECTS CONCERNING THE EFFECTS OF THE PSYCHOSOCIAL RISKS ON THE WORKERS*  
Monica Bardac, Ana Vatamaniuc, Eugen Fulea
2. *CONSIDERATIONS REGARDING GLOBAL ENVIRONMENTAL RISK TAXONOMY AND ASSESSMENT*  
Gabriel Băbuț, Roland Moraru, Lucian-Ionel Cioca
3. *A METHODOLOGY MODEL FOR HEALTH AND SAFETY TRAINING IN A CHEMICAL PLANT*  
Gabriel Băbuț, Roselia Elena Slesar

4. *A MULTIDIMENSIONAL MEASURING OF OCCUPATIONAL STRESS OF ROMANIAN EMPLOYEES*  
Adrian Tudor Brate
5. *DIAGNOSIS OF OCCUPATIONAL STRESS FOR TEACHERS*  
Adrian Tudor Brate, Anamaria Grecu
6. *OSH CULTURAL VALENCES - PROJECT OF THE LABOUR INSPECTION IN ROMANIA*  
Dantes Nicolae Bratu, Nicolae Voinoiu
7. *EVALUATION OF COMPLIANCE ACCORDING TO BS OHSAS 18001:2007 (SR OHSAS 18001:2008) REQUIREMENTS*  
Doru Darabont, Lucian-Ionel Cioca, Georgeta Furtună, Viorica Ilie
8. *ENTERPRISE RESOURCE PLANNING IN ROMANIAN MINING COMPANIES*  
Eduard Edelhauser, Mihaela Ghicăjanu

**Thursday, June 04<sup>th</sup> 2009**

**15.00-17.30**

**Room L1 Banatului**

### **WORKSHOP**

## **INTELLECTUAL PROPERTY – ACTUALITY AND PERSPECTIVE IN THE ECONOMY BASED ON KNOWLEDGE**

**Chairmen:**

**Tudor Inclănzan “Politehnica” University of Timisoara  
Mihail Tițu “Lucian Blaga” University of Sibiu**

1. *PATENTING OF INVENTIONS CREATED IN UNIVERSITIES AND THE TECHNOLOGICAL TRANSFER TO ECONOMIC AGENTS. PATENTS GRANTING PROCEDURE IN ROMANIA AND ABROAD*  
Bucura Ionescu
2. *INNOVATION - FROM IDEAS TO VALUATION OF INDUSTRIAL PROPERTY RIGHTS*  
Elisabeta Bălbăie
3. *WHAT WE KNOW AND DON'T KNOW ABOUT THE COMMUNITY TRADEMARK*  
Liliana Badea
4. *ROMANIAN DESIGN IMPACT IN THE EUROPEAN UNION*  
Raluca Voicu
5. *ZECE MOTIVE DE A BREVETA INAINTE DE A PUBLICA*  
Tudor Inclanzan
6. *COMMUNICATION AND PARTNERSHIP IN THE FIELD OF INTELLECTUAL PROPERTY*  
Daniela Flucșă
7. *INTELLECTUAL PROPERTY – ACTUALITY AND PERSPECTIVE IN THE ECONOMY AND MANAGEMENT BASED ON KNOWLEDGE*  
Mihail Titu



Thursday, June 04<sup>th</sup> 2009

18.00 – 19.00

Session G

Room IM 222

### E-LEARNING

**Chairmen:**

**Sorin Borza**

**Ghita Barsan**

**Andrea Mudrikova**

8. OPEN SOURCE SOFTWARE FOR E-LEARNING  
Sorin Borza
9. STATISTICAL SIGNIFICANCE OF DISTANCE LEARNING MODEL IN GRAPHIC COMMUNICATION TEACHING  
Eleonora Desnica, Duško Letić, Radojka Gligorić
10. *BEYOND PAGE-TURNING EDUCATIONAL CONTENT*  
Luminița Giurgiu, Ghiță Bârsan, Dănuț Mosteanu
11. *ASSESSMENT OF STUDENTS WITH A MULTI-AGENT SYSTEM*  
Daniel Hunyadi, Marian Cristescu
12. *EFFECTIVE CLASSWORK IN VIRTUAL LABORATORY BY E-LEARNING*  
Andrea Mudriková, Nina Danišová, Dagmar Cagaňová
13. *ELEARNING AND NEW APPROACHES IN PRIMARY EDUCATION*  
Ioan Neașu, Nicoleta Sămărescu

Thursday, June 04<sup>th</sup> 2009

18.00 – 19.00

Session H

Room IM 202

### PARTNERSHIP BETWEEN UNIVERSITIES AND COMPANIES

**Chairmen:**

**Nicolae Cofaru**

**Mircea Viorel Dragoi**

1. *MATER – THE PIVOT OF THE JOINT EDUCATION-RESEARCH-PRODUCTION*  
Mircea-Viorel Drăgoi
2. *THE EVOLUTION OF THE PARTNERSHIP UNIVERSITY – COMPANIES*  
Ionela Rotaru, Nicolae Cofaru, Lucian Lobonț

Thursday, June 04<sup>th</sup> 2009

18.00 – 19.00

**Session I**

**Room IM 323**

### **BIOMEDICAL ENGINEERING**

**Chairmen:**

**Catalin Carstoiu**

**Mircea Badescu**

**Mircea Stetiu**

1. *COMPUTERIZED SYSTEM, WITH FEEDBACK IN REAL TIME FOR EVALUATION AND RECOVERY BY KINETOTERAPIE*  
Cătălin Cârstoiu, Vladimir Schor, Gheorghe Sindilă, Daniela Schor
2. *CRITICAL ANALYSIS OF THE CURRENTLY AVAILABLE SYSTEMS FOR CASTING SMALL-SIZE PARTS MADE OF TITANIUM OR TITANIUM ALLOYS*  
Cristian Deac, Marius Bibu Melania Tera, Cristina Biris
3. *IMAGES CLASSIFICATION USED IN MEDICAL DIAGNOSIS*  
Iuliana Dobre
4. *FRAMEWORK FOR RAPID MANUFACTURING OF A GUIDE FOR TRANSPEDICULAR SCREW INSERTION*  
Laptoiu Dan, Popescu Diana, Antoniac Iulian, Carutasu Nicoleta
5. *“WAVELET” ANALYSIS OF HUMAN JOINT ANGLE USING JAGO MODEL STRUCTURE*  
Ovidiu Spataru
6. *ALTERNATIVE ANALYSIS OF MASTICATORY FORCES*  
Mircea Ștețiu, Andreea Ștețiu

Thursday, June 04<sup>th</sup> 2009

18.00 – 19.00

**Sessions J**

**Room IM 201**

### **VIRTUAL MANUFACTURING DIGITAL FACTORY**

**Chairmen:**

**Costel Emil Cotet**

**Achim Muntean**

**Slobodan Navalusici**

**Gerhard Reichert**

1. *DIGITAL MANUFACTURING A LINK BETWEEN 3D SIMULATION TOOLS AND FACTORY FLOOR AUTOMATION*  
Eduard Edelhauser, Mihaela Ghicăjanu, Andreea Ionică
2. *DIGITAL SMARTFACTORYKL: APPROACH OF A FLEXIBLE DIGITAL MODEL BASED ON REAL-TIME STATES*  
Tobias Gerber, Florian Flörchinger, Achim Muntean
3. *CONCEPT OF THE SYSTEM FOR TURNING SIMULATION BASED ON APPROXIMATE APPROACH*  
Zoran Milojević, Slobodan Navalusić, Milan Zeljković

4. *VIRTUAL MANUFACTURING FOR INDUSTRIAL PRODUCTS*  
Lidia Florentina Parpala
5. *INTEGRATED VERSUS ISOLATED DISCRETE MATERIAL FLOW SIMULATION*  
Cicerone Laurentiu Popa, Florina Anghel, Costel Emil Cotet
6. *CONCEPT FOR MAXIMIZING PRODUCTION EFFICIENCY IN OPPP-SYSTEMS THROUGH OPTIMAL PRODUCTION PROGRAM SEQUENCING*  
Gerhard Reichert
7. *ENTERPRISE NETWORK MONITORING TO SUPPORT VIRTUAL TEAMS WORK*  
Sebastian Marius Rosu, Marian Marius Popescu, Luminita Rosu

**Thursday, June 04<sup>th</sup> 2009**

**18.00 – 19.00**

**Sessions K1**

**Room IM 301**

### **QUALITY MANAGEMENT**

**Chairmen:  
Calin Denes  
Constantin Militaru**

1. *AIR POLLUTANTS DEPENDENCE ANALYSIS FOR ENVIRONMENTAL QUALITY EVALUATION*  
Mădălina Cărbureanu
2. *ABOUT THE RELIABILITY OF SYSTEMS WITH COMPONENTS SUBJECTED TO FATIGUE*  
Călin Deneş
3. *MANAGING AND MEASURING THE QUALITY OF SERVICES*  
Luigi Dumitrescu, Hortensia Gorski, Mircea Fuciu
4. *CONTINUOUSLY IMPROVEMENT THE MAIN OBJECTIVE OF TPM SYSTEM FOR LEAN ORGANIZATION*  
Daniel Georgescu, Constantin Militaru
5. *EVALUATION OF CREAM QUALITY IN TERMS OF CONTENT OF 2, 3, 7,8 TETRACHLORODIBENZO-P-DIOXIN (TCDD) IN THE COUNTY OF MARAMURES*  
Otto Ketney, Mihaela Tița, Ovidiu Tița, Cristina -Maria Tița
6. *THE ANALYZE OF DAIRY PRODUCTS BY THE QUALITY POINT OF VIEW AND THE ROLE OF THESE TEACHERS ACTIVITIES IN TRAINING FOR FUTURE SPECIALISTS IN MILK INDUSTRY*  
Otto Ketney, Mihaela Tița, Ovidiu Tița, Nicoleta Mandrean

Thursday, June 04<sup>th</sup> 2009

18.00 – 19.00

Sessions L

Room IM 302

**ENGINEERING ON OIL AND GAS FIELD**

**Chairman:**

**Jacek Blicharski**

**Dan Paul Stefanescu**

**Rafal Sedlaczek**

1. *CARBON DIOXIDE SEQUESTRATION IN DEPLETED GAS RESERVOIRS*  
Jacek Blicharski, Czesław Rybicki
2. *CARBON CAPTURE AND STORAGE – DOES IT REALLY MAKE SENSE?*  
Rafał Sedlaczek
3. *CONSIDERATIONS REGARDING THE NATURAL INFLUX OF WATER IN GAS RESERVOIR*  
Dan Paul Stefanescu, Valentin Dan Petrescu, Ioana Vlasin

Thursday, June 04<sup>th</sup> 2009

20.00

**BANQUET “IMPARATUL ROMANILOR” RESTAURANT**

**Friday, June 05<sup>th</sup>, 2009**

**Friday, June 05<sup>th</sup> 2009**

**08.30– 9.30**

**Parallel Session Papers**

**Friday, June 05<sup>th</sup> 2009**

**08.30-10.30**

**Session C2**

**Room IM 323**

**RESEARCH ACTIVITY IN TECHNICAL UNIVERSITIES**

**Chairmen:**

**Ioan Bondrea**

**George Draghici**

**Horatiu Iancu**

**Gheorghe Sindila**

1. *THEORETICAL AND EXPERIMENTAL DETERMINATION OF THE FLCS FOR DC01 STEEL SHEETS*  
Ioana Bichiş, George Dragoş, Liana Paraiianu, S. Comşa, Dorel Banabic
2. *CONTRIBUTION FOR SIMULATION OF AUTOMATED ASSEMBLY PROCESSES*  
Adela Hosu, Ancuta Mircea, Csaba Gyenge
3. *MATERIAL BEHAVIOUR AT THE MACHINING METHODS WITH ACCELERATED PARTICLES*  
Laurenţiu Slătineanu, Margareta Coteaţă, Oana Dodun and Dumitru Uliuliuc
4. *RESEARCH REGARDING THE GEOMETRY AND POWER DENSITY OF THE LASER BEAM DURING LASER PROCESSING*  
Camil Chetreanu Don, Gabriel Dumitru, Marcel Popa
5. *ASPECTS ABOUT THE OPERATING CONDITIONS OF THE GRIPPER DEVICES*  
Ancuţa Mircea, Ioan Vuşcan
6. *THE DETERMINATION OF THE R.B.C. DECONTAMINATION PROCESS*  
Dănuţ Moşteanu, Luminiţa Giurgiu, Ghiţă Bârsan, Lucian Trefaş
7. *DEVELOPMENT OF CURVED HOLE MACHINING METHOD*  
Monica Moţ, Carmen Purcar
8. *NEW CONCEPTS AND DESIGN IN DIESEL INJECTION SYSTEMS TO INCREASE ENGINES EFFICIENCY*  
Cristian Alexandru Racovitza
9. *CUBIC SPLINE OF REGRESSION WITH APPLICATION AT COMPOSITE MATERIALS*  
Emilia Sabău, Horaţiu Iancău, Teodor Potra, Liana Hancu, Adrian Popescu

Friday, June 05<sup>th</sup> 2009

08.30-10.30

Session D2

Room IM 201

**MANAGEMENT, MODELING AND MONITORING OF  
MANUFACTURING PROCESSES**

**Chairmen:**

**Petre Berce**

**Constantin Minciu**

**Niculae Marinescu**

1. EDM WIRE CUTTING OF COMPLEX PARTS  
Nicolae Bâlc, Monica Balas, Petru Berce, Horea Chezan
2. *INVESTMENT CASTING FOR SMALL VOLUME PRODUCTION  
OF ALUMINIUM PARTS*  
Nicolae Bâlc, Alina Luca, Alexandru Popan, Nicolae Panc
3. *RAPID PROTOTYPING BY ABRASIVE WATER JET CUTTING*  
Nicolae Bâlc, Alexandru Popan, Alina Luca
4. *NEW TECHNOLOGY AND EQUIPMENT FOR RAPID METAL CASTING IN SMALL  
SERIES*  
Petre Berce, Nicolae Bâlc, Nicolae Panc, Alina Luca
5. *RESOURCES OPTIMIZATION AT EDM OPERATIONS BASED ON TRI CONCEPT AND  
ULTRASONIC AIDING*  
Daniel Ghiculescu, Niculae Marinescu, Ovidiu Blajina, Aurelian Vlase
6. *3D PRINTING IMPORTANCE IN DESIGNING AND MANUFACTURING PROCESS OF A  
PRODUCT COMPONENTS*  
Mihaiela Iliescu, Victor Grigore, Gabriel Dobrescu, Adelina Ighigeanu
7. *APPLICATION OF EXPERT SYSTEMS AND ARTIFICIAL NEURAL NETWORKS IN  
MANUFACTURING*  
Milos Madic, Dragoljub Lazarevic, Miroslav Radovanovic
8. *INDUSTRIAL PROBLEM SOLVING TECHNIQUE CASE STUDY FOR THE MACHINING  
PROCESS*  
Laurentiu-Aurel Mihail, Nouras Barbu Lupulescu
9. *EXPERIMENTAL RESEARCH ON CUTTING EFFORTS AT ZINC ALLOYS DRILLING AND  
MILLING*  
Minciu Constantin, Croitoru Sorin Mihai

Friday, June 05<sup>th</sup> 2009

08.30-10.30

**Session K2**

**Room IM 301**

## **QUALITY MANAGEMENT**

**Chairmen:**

**Carmen Simion**

**Mihail Tîtu**

**Ovidiu Tita**

1. *METHODOLOGY FOR IDENTIFYING, REPRESENTING AND ANALYZING THE ORGANIZATIONAL PROCESSES FOR QUALITY MANAGEMENT SYSTEMS IMPLEMENTATION*  
Lucian Lobonț, Ionela Rotaru
2. *QUALITY MANAGEMENT AND ESCAPING THE TRUST CRISIS*  
Theodor Valentin Purcărea, Monica Paula Rațiu, Irina Purcărea
3. *THE AUDIT PROCESS IN ERP SYSTEMS*  
Carmen Rădut, Dan Vilaia
4. *IMPLEMENTATION OF QUALITY MANAGEMENT IN PROCESSING OF CHEESE WITH DOWNCAST PASTE*  
Mihaela Tița, Ovidiu Tița, Otto Ketney, Cristina –Maria Tița
5. *QUALITY MANAGEMENT IN ENTERPRISES OF WINE*  
Ovidiu Tița, Mariana Pacala, Ciprian Tușa, Cristina-Maria Tița
6. *STUDY REGARDING THE EVALUATION OF ATMOSPHERE QUALITY IN THE AREA OF SIBIU, BY USING A METHOD OF QUALITY MANAGEMENT*  
Mihail Titu, Constantin Oprean, Daniel Grecu

Friday, June 05<sup>th</sup> 2009

08.30-10.30

**Session F2**

**Room IM 302**

## **SAFETY AND HEALTH AT WORK**

**Chairmen:**

**Doru Darabont**

**Sabina Irimie**

1. *THE CONCEPTUAL FRAMEWORK OF AUDITING THE HEALTH AND SAFETY AT WORK*  
Gheorghita Furtuna
2. *IDENTIFYING AND QUANTIFYING PSYCHOSOCIAL-RISK PART OF RISK ASSESSMENT*  
Remus Furtuna

3. *MONITORING AND CONTROLLING THE RELEASE OF METHANE FROM MINES COAL*  
Mihaela Ghicajanu, Eduard Victor Edelhauser
4. *MINING SECTORAL PROFILE IMPACT ON WORKING CONDITIONS: SAFETY ISSUES IN JIU VALLEY REGION*  
Sabina Irimie, Virginia Baleanu, Andreea Ionica
5. *ISSUES AND INTERPRETATIONS OF THE IGNITION RISK RISED FROM MECHANICAL SPARKS IN EXPLOSIVE ATMOSPHERES*  
Adrian Jurca, Niculina Vătavu, Sorin Sicoi, Leonard Lupu, Florin Păun
6. *ADDRESSING HUMAN ERROR ASSESSMENT AND MANAGEMENT*  
Roland Moraru, Gabriel Băbuț, Lucian-Ionel Cioca
7. *TEST METHODS FOR ELECTRIC DETONATORS REGARDING THE SENSITIVITY TO STATIC ELECTRICITY*  
Florin Adrian Păun, Mihaela Părăian, Emilian Ghicioi, Niculina Vătavu, Adrian Jurca, Florina Muntean-Berzean
8. *OHS AUDIT SYSTEM IN THE HYDRO-TECHNICAL CONSTRUCTION ACTIVITY*  
Livius Popescu, Doru Darabont

**Friday, June 05<sup>th</sup> 2009**

**08.30-10.30**

**Session M**

**Room IM 222**

**DESIGN, MANUFACTURING AND MANAGEMENT OF  
TECHNOLOGICAL EQUIPMENT AND SYSTEMS**

**Chairmen:**

**Paul Dan Brindasu**

**Laurean Bogdan**

**Peter Kostal**

**Carol Velisek**

1. *PROGRAMMING AND CONTROL MOVEMENTS OF A ROBOT WITH A PLC*  
Laurean Bogdan, Vasile Fetche
2. *STUDY OF THE PROFILED MILLING MANUFACTURING*  
Paul Dan Brindasu, Livia Dana Beju
3. *INTERPOLATION ALGORITHMS SIMULATION BY MEANS OF MATLAB & SIMULINK SOFTWARE PACKAGE*  
Anca Chicea, Octavian Bologna, Radu Breaz, Gabriel Racz
4. *INTELLIGENT CLAMPS IN COMPUTER-INTEGRATED MANUFACTURING (CIM)*  
Peter Kostal, Erika Hruskova
5. *MODELING OF DEVICE BODIES WITH THE COMPOSITE MATERIAL POLYMER CONCRETE*  
Jürgen Lang, Helmut Hansmeier



6. *OPTIMIZATION OF ELECTRODISCHARGE MACHINES MULTISERVING THROUGH ULTRASONIC AIDING*  
Niculae Marinescu, Daniel Ghiculescu, Aurelian Vlase, Ovidiu Blajina
7. *THEORETICAL STUDY OF THE ENGAGEMENT ANGLE IN MILLING PROCESS*  
Mihaela Mureşan, Marian Borzan, Adrian Trif
8. *CONTRIBUTIONS CONCERNING THE INFORMATIC CONTROL OF THE CUTTING TOOLS*  
Eugen Străjescu, Olimpia Pavlov, Dumitru Dumitru

**Friday, June 05<sup>th</sup> 2009**

**11.00-13.00**

**Room IM 301**

**WORKSHOP**

**DIGITAL FACTORY**

**Chairman:**

**Ioan Bandrea** Dean of Engineering Faculty, “Lucian Blaga” University of Sibiu

**Friday, June 05<sup>th</sup> 2009**

**11.00-13.00**

**Room IM 222**

**WORKSHOP**

**RESEARCH, EDUCATION AND INNOVATION ON FP7**

**Chairman:**

**Camelia Marinescu** counsellor at National Authority for Scientific Research

**Friday, June 05<sup>th</sup> 2009**

**11.00-13.00**

**Room IM 201 – IM 117**

**WORKSHOP**

**BIOMEDICAL ENGINEERING**

**Chairmen:**

**Achim Muntean** “Lucian Blaga” University of Sibiu

**Vasile Nicolae** “Lucian Blaga” University of Sibiu

**Mircea Stetiu** “Lucian Blaga” University of Sibiu

Friday, June 05<sup>th</sup> 2009

11.00-13.00

Senate Hall

**WORKSHOP**

**CREATIVE DEVELOPMENT AND PERSPECTIVES IN INDUSTRIAL  
ENGINEERING – AUIF MEETING**

**Chairman:**

**Petre Berce** Dean of Machine Building Faculty “Technical” University of Cluj Napoca

Friday, June 05<sup>th</sup> 2009

11.00-13.00

Room IM 323

**WORKSHOP**

**MANAGEMENT OF CONFLICTS IN EDUCATIONAL SYSTEM**

**Chairman:**

**Marius Milcu** “Lucian Blaga” University of Sibiu

Friday, June 05<sup>th</sup> 2009

13.00-15.00

**LUNCH**

**UNIVERSITY RESTAURANT**

Friday, June 05<sup>th</sup> 2009

15.00-17.00

Session C3

Room IM 323

**RESEARCH ACTIVITY IN TECHNICAL UNIVERSITIES**

**Chairmen:**

**Marcu Fratila**

**Liana Hancu**

**Dan Nanu**

**Libuse Sykorova**

1. LABORATORY FACILITIES FOR TESTING OF MR DAMPER-BASED VIBRATION REDUCTION SYSTEMS  
Bogdan Sapiński
2. *THE INFLUENCE OF THE BENDING ANGLE AND THICKNESS OF MATERIAL ON ELASTIC RETURN*  
Gheorghe Sindilă, Rodica Rohan

3. ANALYSIS OF FACTORS INFLUENCING TO THE WELD  
Helena Kraváriková
4. LASER TECHNOLOGY AND POSSIBILITY OF ITS APPLICATION  
Libuše Sýkorová, Imrich Lukovics
5. STUDY OF DIFFERENT PLASTICS BEHAVIOUR WITHIN CO<sub>2</sub> LASER MICROMACHINING  
Libuše Sýkorová, Milan Žaludek
6. STUDY OF DEEP-DRAWN TAILOR WELDED PARTS USED IN AUTOMOTIVE INDUSTRY  
Melania Tera, Octavian Bologa, Cristian Deac
7. DETERMINING THE DRILLING FORCES REGRESSION AT DRILLING IN COMPOSITE MATERIALS WITH POLIMERIC MATRIX AND 20% GLASS FIBRES  
Aurelian Vlase, Constantin, Ocnărescu, Maria Ocnărescu
8. BIPED WALKING RESEARCH AND CONCEPTION OF A BIPED ROBOT  
Timea Zilcsak, Ioan Bondrea

**Friday, June 05<sup>th</sup> 2009**

**15.00-17.00**

**Session D3**

**Room IM 201**

**MANAGING, MODELING AND MONITORING OF  
MANUFACTURING PROCESSES**

**Chairmen:  
Constantin Bungau  
Sorin Croitoru  
Josef Kuba**

1. *CONTRIBUTIONS REGARDING PRODUCTIVITY OPTIMIZATION FOR TITANIUM ALLOYS MILLING USING SOFTWARE APPLICATION*  
Nicolae-Dorel Părăian, Horia-Victor Covaci
2. *USING THE PRINCIPLES OF DISTRIBUTED OBJECT TECHNOLOGY FOR SCALABLE FLEXIBILITY IN FMS*  
Ilie Popp, Ioan Barsan
3. *USING SIMULATION TO PREDICT A SYSTEM PERFORMANCE: A CASE STUDY*  
Daniela Pușcă
4. *CIRCULAR SHEARS ADJUSTMENT*  
Gheorghe Sindilă, Rodica Rohan
5. *THE REGRESSION RELATION OF THE CUTTING MOMENTS FOR WIDENING OF THE STAINLESS STEEL 20MOCR130*  
Aurelian Vlase, Ovidiu Blăjină, Daniel Ghiculescu, Niculae Marinescu
6. *THE REGRESSION RELATION OF THE CUTTING FORCES FOR TURNING OF THE STAINLESS STEEL 4NICR180*  
Aurelian Vlase, Ovidiu Blăjină, Niculae Marinescu, Daniel Ghiculescu

Friday, June 05<sup>th</sup> 2009

15.00-17.00

Session E2

Room IM 301

## MANAGEMENT AND ECONOMIC ENGINEERING

**Chairmen:**

**Hortensia Gorski**

**Monica Izvarcianu**

**Marius Miclea**

1. *MODELS OF PROJECT MANAGEMENT BASED ON CULTURAL DIVERSITY CONDITIONS*  
Constantin Ispas, Dana Tilina
2. *APPROACHES IN THE ASSESSMENT OF MINING PROJECTS*  
Sorin Iuliu Mangu, Diana Cornelia Csimminga
3. *IMPLICATIONS OF PERSONALIZING ORGANIZATIONS: STIMULATING ORGANIZATIONAL CREATIVITY*  
Marius Milcu
4. *CREATING COMPETITIVE ADVANTAGE THROUGH TECHNOLOGICAL CONVERGENCE*  
Gheorghe Militaru
5. *COMPARATIVE RESEARCH AND ITS IMPORTANCE IN CREATIVITY MANAGEMENT*  
Gina-Maria Moraru, Marinela Ință
6. *PROJECT MANAGEMENT OF STAFF SKILLS DEVELOPMENT AT SC COMPA SA*  
Marcela Niculescu, Dănuț-Dumitru Dumitrașcu, Gina-Maria Moraru
7. *MODEL OF EXTENDED ENTREPRISE COLLABORATION IN CUTTING TOOLS AREA*  
Liliana Georgeta Popescu, Paul Dan Brîndașu, Livia Dana Beju
8. *CONWIP – ALTERNATIVE TO KANBAN*  
Ana Rotaru
9. *OEE – A KEY OF STABILIZES THE PRODUCTION*  
Ana Rotaru

Friday, June 05<sup>th</sup> 2009

15.00-17.00

Session F3

Room IM 302

## SAFETY AND HEALTH AT WORK

**Chairmen:**

**Marius Guran**

**Roland Moraru**

1. *WORKPLACE RISK ASSESSMENT USING KNOWLEDGE BASE IN SURFACE MINING INDUSTRY*

Sebastian Marius Rosu, George Dragoi, Marius Guran

2. *IDENTIFYING DANGERS AND ASSESSING RISKS FOR THE ADMINISTRATIVE PERSONNEL AT "HERMANN OBERTH" FACULTY OF ENGINEERING, SIBIU, ROMANIA*

Mihaela Rotaru, Lucian-Ionel Cioca

3. *HOLISTIC ERGONOMICS*

Chitaranjan Saran

4. *NEW TEST METHODS OF NON-METALLIC PIPEWORKS FOR LIQUID FUELS*

Niculina Vătavu, Sorin Vătavu, Mihaela Părăian, Adrian Jurca, Florin Păun

5. *ROLE OF INSURANCE FOR OCCUPATIONAL ACCIDENTS AND OCCUPATIONAL DISEASES IN FOOD INDUSTRY*

Tița Ovidiu, Mândrean Nicoleta, Tița Mihaela, Tița Cristina-Maria

6. *PREVENTING WORK-RELATED ROAD ACCIDENTS – A CHECKLIST FOR PROFESSIONAL DRIVERS*

Carmen Purcar, Mihaela Rotaru

**Friday, June 05<sup>th</sup> 2009**

**17.00**

**THEATER SHOW**

**Saturday, June 06<sup>th</sup>, 2009**

**SATURDAY, June 06<sup>th</sup> 2009**

**09.00-10.30**

**“Avram Iancu” Hall**

**WORKSHOP**

**POTENTIAL FOR COOPERATION BETWEEN UNIVERSITIES**

**Chairman:**

**Claudiu Kifor “Lucian Blaga” University of Sibiu**

**SATURDAY, June 06<sup>th</sup> 2009**

**09.00-10.30**

**Senat Hall**

**WORKSHOP**

**EDUCATION ASPECTS IN ON-LINE LEARNING**

**Chairman:**

**Agnieszka Chrzęszcz Centre of e-Learning AGH - University of Science and Technology**

**Saturday June 06<sup>th</sup> 2009**

**11.00**

**“Avram Iancu” Hall**

**Closing Ceremony**