

INTERNATIONAL SYMPOSIUM on  
ADVANCED ENGINEERING & APPLIED MANAGEMENT  
– 40th ANNIVERSARY in HIGHER EDUCATION (1970-2010)  
4 – 5 November, 2010, Hunedoara, ROMANIA



**INTERNATIONAL SYMPOSIUM**  
**on**  
**ADVANCED ENGINEERING**  
**& APPLIED MANAGEMENT**  
**– 40<sup>th</sup> ANNIVERSARY**  
**in HIGHER EDUCATION**  
**(1970-2010)**



**PROGRAM**

Hunedoara, ROMANIA  
4 - 5 November, 2010

**ORGANIZERS:**

**UNIVERSITY POLITEHNICA TIMISOARA,**



**FACULTY OF ENGINEERING HUNEDOARA**

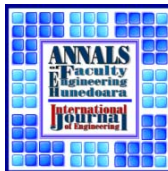


**GENERAL ASSOCIATION OF THE ROMANIAN ENGINEERS (AGIR)  
– Branch of HUNEDOARA**



with logistical support of:

**ANNALS OF FACULTY ENGINEERING HUNEDOARA  
– INTERNATIONAL JOURNAL OF ENGINEERING**



and

**ACTA TECHNICA CORVINIENSIS – BULLETIN OF ENGINEERING**



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– dean of the Faculty of Engineering – Hunedoara

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– vice-dean of Faculty of Engineering – Hunedoara

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– head of Electrical Engineering  
& Industrial Informatics Department

Assoc. Prof. dr. eng. **Lucia VILCEANU**  
– head of Engineering & Management Department

Assoc. Prof. dr. eng. **Manuela PĂNOIU**  
– head of Life-Long Education Department

Assoc. Prof. dr. eng. **Imre KISS**  
– Romanian Foundry Technical Association (ATTR)  
– branch of Hunedoara



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– coordinator of organizing activities,  
Faculty of Engineering – Hunedoara

Lect. dr. eng. **Sorin RAȚIU**  
– coordinator of organizing activities,  
Faculty of Engineering – Hunedoara

Lect. dr. eng. **Vasile George CIOATĂ**  
– coordinator of organizing activities,  
Faculty of Engineering – Hunedoara

## SECRETARY OFFICE



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## **SCHEDULE OF EVENTS**

**1<sup>ST</sup> DAY, Thursday,  
4<sup>th</sup> November, 2010**

- 08.00 - 10.00 Welcoming of guests and registration of participants - in the Hall of the Faculty of Engineering - Hunedoara
- 10.00 - 11.00 Opening Ceremony - in the Amphitheatre of the Faculty of Engineering - Hunedoara
- Plenary Lecture # 1  
*Ioan ROMULUS*  
*THE HISTORY OF IRON MAKING AT HUNEDOARA - ESSENTIAL ELEMENT FOR FOUNDING AN HIGHLY EDUCATION INSTITUTE*
- Plenary Lecture # 2  
*Ioan ILCA*  
*DEFFICIENCY OF SCIENCE AND TECHNIQUE ASSIMILATION*
- Plenary Lecture # 3  
*Teodor HEPUT*  
*FACULTY OF ENGINEERING HUNEDOARA - 40th ANNIVERSARY in HIGHER EDUCATION (1970-2010)*
- Plenary Lecture # 4  
*Iulian RIPOSAN, Mihai CHISAMERA, Stelian STAN*  
*GRAPHITE NUCLEATION IN GREY CAST IRON - A REVIEW*
- 11.00 - 11.30 Coffee break - in the Halls and in the Amphitheatres of the Faculty of Engineering - Hunedoara
- 11.30 - 12.00 Setting of posters by sections - in the Halls and in the Amphitheatres of the Faculty
- 12.00 - 14.00 Presentations and debates by sections - in the Faculty's Amphitheatres
- 14.00 - 16.00 Lunch - at Restaurant of Hotel Maier, Hunedoara
- 16.00 - 19.00 Debates by sections - in the Faculty's Amphitheatres
- 19.00 Festive dinner - at Restaurant Ciuperca, Hunedoara

**2<sup>ND</sup> DAY, Friday,  
5<sup>th</sup> November, 2010**

- 08.00 - 10.00 Breakfast - at the Faculty's Restaurant
- 10.00 - 12.30 Presentations and debates by sections and posters - in the Halls and in the Faculty's Amphitheatres
- 12.30 - 13.00 Coffee break - in the Halls and in the Amphitheatres of the Faculty of Engineering - Hunedoara
- 13.00 - 14.00 Final debates and Closing Ceremony - in the Faculty's Amphitheatre



## **SYMPOSIUM TOPICS**

### **SECTION S01.**

MATERIALS SCIENCE & ENGINEERING

### **SECTION S02.**

ELECTRICAL ENGINEERING & INFORMATICS

### **SECTION S03.**

MECHANICAL ENGINEERING & DESIGN

### **SECTION S04.**

MANAGEMENT IMPLEMENT POLICIES & STRATEGIES

### **SECTION S05.**

ENVIRONMENTAL ENGINEERING & ECOLOGY

**ISBN 978-973-0-09340-7**

## **SECTION S01.** **MATERIALS SCIENCE & ENGINEERING**

### **PROGRAM SCHEDULE:**

**1<sup>ST</sup> DAY, Thursday,**  
**4<sup>th</sup> November, 2010**

- 11.30 - 12.00      Setting of posters by sections - in the Halls and in the Amphitheatres of the Faculty
- 12.00 - 14.00      Presentations and debates by sections - in the Faculty's Amphitheatres
- 16.00 - 19.00      Debates by sections - in the Faculty's Amphitheatres

**2<sup>ND</sup> DAY, Friday,**  
**5<sup>th</sup> November, 2010**

- 10.00 - 12.30      Presentations and debates by sections and posters - in the Halls and in the Faculty's Amphitheatres

### **PROGRAM of PRESENTED PAPERS** **(oral presentations and posters):**

| No. crt. | Authors Surname & NAME<br>TITLE OF PRESENTED PAPERS   |
|----------|---|
| S1-01.   | Ana SOCALICI, Constantin ANDRONACHE, Teodor HEPUT<br>RESEARCHS REGARDING THE QUALITY OF THE STEEL USED FOR MAKING ROLLING STOCK COMPONENTS  |
| S1-02.   | Violeta OANCEA, Nicolae CONSTANTIN, Cristian DOBRESCU<br>RESEARCH REGARDING THE PHYSICAL AND CHEMICAL CHARACTERISTICS OF PRE-REDUCED IRON ORES AND THE ANALYSIS OF THE POSSIBILITIES OF THEIR USE IN THE IRON AND STEEL ELABORATING PROCESS |
| S1-03.   | Violeta OANCEA, Nicolae CONSTANTIN, Cristian DOBRESCU<br>RESEARCH ON THE POSSIBILITIES OF IMPROVING THE PRODUCTIN OF CAST IRON IN THE FIRST MERGER BY IMPROVING FLOW GAS PHASE IN THE BLAST FURNACE   |
| S1-04.   | Ioan MILOSAN<br>STUDIES AND RESEARCHES ON THE DETERMINATION OF KINETIC AND THERMODYNAMIC PARAMETERS OF AN ADI   |
| S1-05.   | Maria NICOLAE, Irina VÎLCIU, Emanuela-Daniela STOICA<br>RESEARCH ON THE MECHANISM OF DAMAGE LINE BRICKS IN THE SLAG LF  |
| S1-06.   | Victor BUDĂU, Sebastian DUMA<br>HARDNESS AND STRUCTURAL ASPECTS OF THE HEAT - TREATED HS 18-0-1 STEEL   |

- S1-07. Erika ARDELEAN, Florin DRĂGOI, Marius ARDELEAN, Teodor HEPUT  
WAYS OF INCREASING THE PURITY OF THE STEELS THROUGH SLAGS, IN  
THE ELABORATION OF THE AGGREGATE
- S1-08. Claudiu CONSTANTIN, Alina MIHAIU, Nicolae CONSTANTIN  
MATHEMATICAL MODEL ON THE CORRELATION OF THE COMBUSTION 'S  
ZONE PARAMETERS IN CASE OF USING DIFFERENT AUXILIARY  
COMBUSTIBLES
- S1-09. Nicolae CONSTANTIN, Cristian DOBRESCU, Raluca PETRACHE  
ALTERNATIVE IRON MAKING TECHNOLOGIES
- S1-10. Alina MIHAIU, Claudiu CONSTANTIN, Cristian DOBRESCU  
SOME COMPUTATIONS REGARDING THE DIRECT REDUCTION OF THE IRON  
ORES
- S1-11. Vasile PUȚAN, Adriana PUȚAN  
DESULPHURATION OF STEEL WITH SYNTHETIC SLAG WITH ADDITION OF  
TITANIUM OXIDE
- S1-12. Mihaela FLORI, Bernard GRUZZA, Luc BIDEUX, Guillaume MONIER,  
Christine ROBERT-GOUMET, Jean-Pierre CHERRE, Daniela MILOȘTEAN  
INFLUENCE OF MICROSTRUCTURE DEFECTS ON THE PROPERTIES OF  
42CrMo4 NITRIDED STEEL
- S1-13. Monika Erika POPA  
RESEARCH AND SIMULATION OF THE SOLIDIFICATION FRONT AT THE  
CONTINUOUS CAST HALF-FINISED PRODUCT
- S1-14. Simon JITIAN  
OBTAINING THE ABSORPTION SPECTRA OF SILICON FROM THE IR  
REFLECTANCE SPECTRA RECORDED AT TWO ANGLES
- S1-15. Miriam MATÚŠOVÁ, Erika HRUŠKOVÁ, Angela JAVOROVÁ  
MATERIAL FLOW STRATEGY BY SOFTWARE WITNESS
- S1-16. Imre TIMÁR, Péter KONCZ, Ferenc WÉBER, Csaba BALÁZSI  
STRUCTURAL PROPERTIES OF NANO- STEEL POWDERS PREPARED BY  
POWDER METALLURGY
- S1-17. Martina KUSÁ, Miriam MATÚŠOVÁ, Marcela CHARBULOVÁ  
OPTIMALISATION METHOD OF MATERIAL FLOW AT MANUFACTURING  
PROCESS
- S1-18. Ioan MĂRGINEAN, Irina Varvara ANTON, Crenguța Manuela PÂRVULESCU  
VIBRATION TECHNIQUE - AN IMPROVEMENT SOLUTION FOR QUALITY OF  
CAST METALLIC MATERIALS
- S1-19. Ioan ILCA  
DEFFICIENCY OF SCIENCE AND TECHNIQUE ASSIMILATION



- S1-20. Monika Erika POPA, Gabriela Cornelia MIHUȚ  
EXPERIMENTS REGARDING THE THERMICAL REGIME IN THE CONTINUOUS  
CASTING PROCESS
- S1-21. Vasile PUȚAN, Ana JOSAN, Adriana PUȚAN  
HEAT LOSS FLUXES FROM STEEL MELT TO DIFFERENT BOUNDARY REGIONS  
OF A LADLE
- S1-22. Peter KOŠŤÁL, Andrea MUDRIKOVÁ  
USE OF E-LEARNING AND VIRTUAL LABORATORY TO AUTOMATION  
TEACHING
- S1-23. Štefan NIŽNÍK, Ondrej MILKOVIČ, Svätoboj LONGAUER  
METALLURGICAL TWO-STEP PRODUCING METHOD OF FE NANOPARTICLES
- S1-24. Ioan MĂRGINEAN, Bogdan-Alexandru VERDEȘ,  
Crenguța Manuela PÎRVULESCU  
RESEARCH REGARDING THE EFFECT OF ALLOYS VIBRATION ON MICRO-  
AND MACROBLISTER FROM CASTED PARTS
- S1-25. Eugen Mihai CRIȘAN, Teodor HEPUT  
INFLUENCE OF BASIC ADDITIVE ON THE QUALITY OF PELLETS
- S1-26. I. MARGINEAN I., V. MIREA, B. FLOREA, L. MARGINEAN  
MACRO-MICRO-NANO COMPOSITE MATERIALS
- S1-27. Ana JOSAN  
THE ANALYSIS OF CASTING DEFECTS RECORDED IN THE METALLURGICAL  
ENTERPRISES
- S1-28. Gabriela MIHUȚ, Erika POPA  
ANALYSIS UPON INFLUENCE OF THE ALLOY ELEMENTS OVER THE  
MECHANICAL CHARACTERISTICS OF THE HIGH RESISTENT STEEL WITH  
HELP OF MATHEMATICAL MODELS
- S1-29. Lucia VÎLCEANU  
THE INFLUENCE OF THE LOCAL COMPRESSION EFFECT ABOUT THE  
WORKING LIFE OF THE COMPONENT WIRES IN A WIRE-ROPE
- S1-30. Sorina Gabriela ȘERBAN, Maria Laura STRUGARIU  
DETERMINATION OF PARAMETERS INVOLVED IN TRANSFORMING THE  
IDEAL GAS, USING MICROSOFT ACCESS
- S1-31. Ana JOSAN, Vasile PUȚAN, Sorin RAȚIU  
THE OPTIMIZATION OF MANUFACTURING PROCESS OF A PART CAST  
STEEL FOR QUALITY ASSURANCE
- S1-32. Teodor HEPUT, Erika ARDELEAN, Ana SOCALICI, Marius ARDELEAN  
EXPERIMENTS AND RESULTS REGARDING THE USE OF FOAMED SLAGS AT  
THE STEEL ELABORATION IN ELECTRIC ARC FURNACES

- S1-33. Marius ARDELEAN, Erika ARDELEAN, Teodor HEPUȚ, Ana SOCALICI  
ESTABLISHING THE MAIN TECHNOLOGICAL PARAMETERS OF INDUCTION  
SURFACE HARDENING FOR SHAFT PARTS TYPE
- S1-34. Daniela MILOȘTEAN, Mihaela FLORI  
AN OVERVIEW ON THE SEMISOLID STATE PROCESSING OF STEEL
- S1-35. Adrian GAVANESCU  
REFINING OF STEEL BY USING SYNTHETIC SLAG
- S1-36. Rodica ISTRATE, Manfred SCHMITT, Jens APFEL, Ioan ILCA  
EFFICIENCY OF MAINTENANCE IN STEEL MAKING INDUSTRY
- S1-37. Iulian RIPOSAN, Mihai CHISAMERA, Stelian STAN  
GRAPHITE NUCLEATION IN GREY CAST IRON - A REVIEW
- S1-38. I. HULKA, D. UȚU, V.A. ȘERBAN  
MICRO-SCALE SLIDING WEAR BEHAVIOR OF HVOF SPRAYED WC-Co(Cr)
- S1-39. Doina PETRE  
THE INFLUENCE OF THE TECHNOLOGICAL CONDITIONS UPON THE  
TENACITY OF SOME ALL PURPOSE STEELS
- S1-40. Doina Elena PETRE, Adriana PUTAN  
THE IMPROVEMENT OF RESISTANCE CHARACTERISTICS OF STEELS  
THROUGH COLD PLASTIC DEFORMATION
- S1-41. Miron BUZDUGA, Adriana COMȘA, Radu BUZDUGA  
RESEARCHES PERFORMED IN VIEW OF OBTAINED REFRACTORIES  
PRODUCTS
- S1-42. Adriana COMȘA, Miron BUZDUGA, Radu BUZDUGA  
RESEARCHES PERFORMED IN VIEW OF OBTAINED REFRACTORIES  
PRODUCTS MONOLITHIC REFRACTORIES PRODUCTS
- S1-43. G. E. BADEA, P. CRET, M. LOLEA, A. SETEL  
STUDIES OF CARBON STEEL CORROSION IN ATMOSPHERIC CONDITIONS



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## **SECTION S02.** **ELECTRICAL ENGINEERING & INFORMATICS**

### **PROGRAM SCHEDULE:**

**1<sup>ST</sup> DAY, Thursday,**  
**4<sup>th</sup> November, 2010**

- 11.30 - 12.00      Setting of posters by sections - in the Halls and in the Amphitheatres of the Faculty
- 12.00 - 14.00      Presentations and debates by sections - in the Faculty's Amphitheatres
- 16.00 - 19.00      Debates by sections - in the Faculty's Amphitheatres

**2<sup>ND</sup> DAY, Friday,**  
**5<sup>th</sup> November, 2010**

- 10.00 - 12.30      Presentations and debates by sections and posters - in the Halls and in the Faculty's Amphitheatres

### **PROGRAM of PRESENTED PAPERS** **(oral presentations and posters):**

| No. crt. | Authors Surname & NAME<br>TITLE OF PRESENTED PAPERS   |
|----------|---|
| S2-01.   | Caius PANOIU, Manuela PANOIU, Raluca ROB<br>PROGRAMMABLE GAIN AMPLIFIER USING PARALLEL PORT CONTROLLING   |
| S2-02.   | Ion COPACI, Bogdan TĂŃĂSOIU<br>ON THE DYNAMIC EXPERIMENTAL DETERMINATION OF THE CHARACTERISTICS OF SHOCK INSULATORS   |
| S2-03.   | Gelu Ovidiu TIRIAN, Camelia BRETOTEAN-PINCA,<br>Cristian CHIONCEL, Sergiu MEZINESCU<br>INDUSTRIAL IMPLEMENTATION OF THE PREDICTION, DETECTION, AND CRACK REMOVAL SYSTEM OF CONTINUOUS CASTING |
| S2-04.   | Adrian DANILA<br>THE DYNAMIC MODEL OF THE CAPACITOR-RUN TWO-PHASE INDUCTION MOTOR - A VARIATIONAL APPROACH  |
| S2-05.   | Anca IORDAN, Manuela PĂNOIU<br>DESIGN OF AN EDUCATIONAL INFORMATICS SYSTEM FOR THE STUDY OF THE EUCLIDIAN VECTORS USING UML DIAGRAMS  |
| S2-06.   | Susana ARAD, Marius MARCU, Dragos PASCULESCU, Codrut PETRILEAN<br>ASPECTS OF THE ELECTRIC ARC FURNACE CONTROL   |

- S2-07. Raluca ROB, Caius PANOIU, Manuela PANOIU, Anca IORDAN  
SIGNAL GENERATOR DESIGNED IN LabVIEW PROGRAM
- S2-08. Corina Daniela CUNȚAN, Ioan BACIU, Manuela PĂNOIU,  
Gabriel Nicolae POPA  
DIGITAL CONTROL MODES OF THE SEMI-CONTROLLED THREE-PHASED  
RECTIFIERS
- S2-09. Adrian DANILA, Gabriela PAVEL, Radu MERA  
A STUDY OF THE PARAMETER ESTIMATION OF THE SINGLE/TWO-PHASE  
INDUCTION MACHINES
- S2-10. Cornelia Victoria ANGHEL  
CONNECTING PC VIA WIRELESS NETWORK PERFORMANCE OF EQUIPMENT
- S2-11. Diana Alina BISTRIAN, Mihaela OSACI, Marcel TOPOR  
SOLUTIONS TO ACCELERATE MATLAB PROGRAMS WITH GPU COMPUTING
- S2-12. Manuela PĂNOIU, Caius PĂNOIU, Anca IORDAN, Cosmina ILLES  
SOFTWARE PACKAGE FOR ANALYSIS THE PERFORMANCES OF  
BACKPROPAGATION NEURAL NETWORKS TRAINING ALGORITHM
- S2-13. Diana Alina BISTRIAN, Mihaela OSACI, Marcel TOPOR  
NUMERICAL INVESTIGATION OF SWIRLING FLOWS STABILITY USING  
MATLAB DISTRIBUTED COMPUTING SERVER ON A WINDOWS OPERATING  
SYSTEM ENVIRONMENT
- S2-14. Stela RUSU-ANGHEL, Lucian GHERMAN, Sergiu MEZINESCU  
USING THE MATLAB-SIMULINK SIMULATION FOR OPERATING ACTIVE  
FILTERS ORDERED BY DIGITAL SIGNAL PROCESSOR (DSP)
- S2-15. Stela RUSU-ANGHEL, Lucian GHERMAN, Sergiu MEZINESCU  
MANAGEMENT FLOW CONTROL ROTOR INDUCTION MACHINE USING  
FUZZY REGULATORS
- S2-16. Ion COPACI, Aurelia TĂNĂSOIU  
THE REDUCTION OF THE ACCELERATION LEVELS CONVEYED TO THE  
FREIGHT HAULED ON CARRIAGES FITTED WITH LONG-RUN BUFFERS
- S2-17. Lucian GHERMAN, Stela RUSU-ANGHEL, Sergiu MEZINESCU  
USING DSP TO ORDER ACTIVE FILTERS
- S2-18. Rastislav PIRNÍK, Ján HALGAŠ, Martin ČAPKA  
NON-INVASIVE MONITORING OF CALM TRAFFIC
- S2-19. Martin VESTENICKÝ, Peter VESTENICKÝ, Martin VACULÍK,  
Mária FRANEKOVÁ  
SENSOR NETWORK FOR VEHICLES TRANSPORTING DANGEROUS GOODS
- S2-20. Martin VYSOCKÝ, Pavol LIPTAI, Zuzana FARKAŠOVSKÁ  
ACOUSTIC QUALITY OF ELECTROMOTOR

- S2-21. Anjan KUMAR KUNDU, Bijoy BANDYOPADHYAY, Sugata SANYAL  
A MICROWAVE IMAGING AND ENHANCEMENT TECHNIQUE FROM NOISY SYNTHETIC DATA
- S2-22. Pavel DRABEK, Martin PITTERMANN  
CALCULATION OF INTERHARMONICS OF POWER ELECTRONIC CONVERTERS - USING OF HARMONIC ANALYSIS
- S2-23. Cornelia Victoria ANGHEL  
DATA SECURITY IN WIRELESS NETWORKS
- S2-24. Corina Maria DINIȘ, Angela IAGĂR, Corina Daniela CUNȚAN, Gabriel Nicolae POPA  
STUDY OF THE VOLTAGE RESONANCE IN ELECTRIC CIRCUITS
- S2-25. Gelu Ovidiu TIRIAN, Camelia BRETOTEAN - PINCA, Marcel TOPOR  
SIMULATION OF NEURAL AND FUZZY SYSTEM TO PREDICT, DETECT AND ELIMINATE CRACKS IN CONTINUOUS CASTING
- S2-26. Mihaela OSACI, Ioana Sonia DRAGAN, Iulia TRIPA  
STUDIES ABOUT MAGNETIC HYPERTHERMIA WITH SUPERPARAMAGNETIC NANOPARTICLES
- S2-27. Zsolt Csaba JOHANYÁK, Kálmán Milán BOLLA  
DEVELOPMENT OF A TOOLBOX SUPPORTING FUZZY CALCULATIONS
- S2-28. Mária FRANEKOVÁ, Karol RÁSTOČNÝ, Aleš JANOTA, Peter CHRTIANSKY  
SAFETY ANALYSIS OF CRYPTOGRAPHY MECHANISMS USED IN GSM FOR RAILWAY
- S2-29. Tibor MORAVČÍK, Emília BUBENÍKOVÁ, Ludmila MUZIKÁŘOVÁ  
DETECTION OF DETERMINED EYE FEATURES IN DIGITAL IMAGE
- S2-30. Pavel DRABEK  
APPLICATION OF THE SIC COMPONENTS IN POWER ELECTRONICS
- S2-31. Ioan BACIU, Corina Daniela CUNȚAN, Sorin DEACONU, Angela IAGĂR  
THE STUDY OF QUALITY INDICATORS OF ELECTRICAL ENERGY IN ELECTRICAL RAILWAY TRANSPORT
- S2-32. Iosif POPA, Gabriel Nicolae POPA, Sorin Ioan DEACONU  
THE SIZING OF THE BRANCH THREE-PHASE LOW VOLTAGE POWER LINES THROUGH SUPERPOSITION METHOD
- S2-33. Radovan HOLUBEK, Matuš VLÁŠEK  
PLC PROGRAMMING IN LABORATORY OF PRODUCTION SYSTEM PROGRAM CONTROL
- S2-34. Tihomir LATINOVIC, Sorin DEACONU, Milosav DJURDJEVIC, Mirko DOBRNJAC  
THE BASICS OF DESIGNING CONTROLLERS FOR INDUSTRIAL ROBOTS (EG. ROBOTS ABB IRB 2000)

- S2-35. István MATIJEVICS  
REAL AND REMOTE LABORATORIES IN EDUCATION
- S2-36. Gabriel Nicolae POPA, Sorin Ioan DEACONU,  
Iosif POPA, Corina Maria DINIȘ  
NEW TRENDS IN DETECTION OF BACK-CORONA DISCHARGES IN PLATE-  
TYPE ELECTROSTATIC PRECIPITATORS
- S2-37. Constantin OPREA, Cristian BARZ  
CONTRIBUTION TO AUTOMATE REGULATION AFTER  
THE SPEED OF ACTIONS WITH ASYNCHRONIZED SYNCHRONOUS MOTOR
- S2-38. Cristian BARZ, Constantin OPREA  
STUDY OF ELECTROMAGNETIC FIELD IN CLAW-POLES ALTERNATOR
- S2-39. Sorin Ioan DEACONU, Lucian Nicolae TUTELEA,  
Gabriel Nicolae POPA, Tihomir LATINOVIĆ  
ARTIFICIAL LOADING FOR ROTATING ELECTRIC MACHINES
- S2-40. Gyula MESTER  
CONTRIBUTION TO THE SIMULATION OF BIPED ROBOT USING 19-DOF
- S2-41. Angela IAGĂR, Gabriel Nicolae POPA, Corina Maria DINIȘ  
STUDY UPON THE THERMAL FIELD FROM A RESISTANCE OVEN
- S2-42. Ionel MUSCALAGIU, Manuela PANOIU, Diana MUSCALAGIU, Anca IORDAN  
THE IMPLEMENTATION OF THE MULTI-ROBOT EXPLORATION PROBLEM IN  
DisCSP-NetLogo
- S2-43. Adela BERDIE, Mihaela OSACI, Robert RAICH, Daniela CRISTEA  
THE COMPONENTISATION EFFICIENCY IN REALIZING A WD ABAP PROJECT



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## **SECTION S03.** **MECHANICAL ENGINEERING & DESIGN**

### **PROGRAM SCHEDULE:**

**1<sup>ST</sup> DAY, Thursday,**  
**4<sup>th</sup> November, 2010**

- 11.30 - 12.00     Setting of posters by sections - in the Halls and in the Amphitheatres of the Faculty
- 12.00 - 14.00     Presentations and debates by sections - in the Faculty's Amphitheatres
- 16.00 - 19.00     Debates by sections - in the Faculty's Amphitheatres

**2<sup>ND</sup> DAY, Friday,**  
**5<sup>th</sup> November, 2010**

- 10.00 - 12.30     Presentations and debates by sections and posters - in the Halls and in the Faculty's Amphitheatres

### **PROGRAM of PRESENTED PAPERS** **(oral presentations and posters):**

| No. crt. | Authors Surname & NAME<br>TITLE OF PRESENTED PAPERS  |
|----------|--|
| S3-01.   | Camelia PINCA -BRETOTEAN, Gelu-Ovidiu TIRIAN,<br>Diana BISTRIAN, Gladiola CHEȚE<br>DIMENSIONAL MATHEMATICAL MODEL TO OPTIMIZE THE PROCESSING<br>MECHANISM OF TRANSLATIONAL ROTATING MOTION |
| S3-02.   | Mihaiela ILIESCU, Marian LAZĂR, Victor GRIGORE<br>RESEARCHES ON TRUE PULSE LASER MICRO-WELDING   |
| S3-03.   | Carmen Inge ALIC, Cristina Carmen MIKLOS, Imre Zsolt MIKLOS<br>FINITE ELEMENT ANALYSIS OF A SEAT BELT BUCKLE DEVICE  |
| S3-04.   | Amalia Ana DASCĂL, Daniel CARAULEANU<br>WHEELS AUTO MODELING USING FINITE ELEMENT METHOD   |
| S3-05.   | Paolo BOSCARIOL<br>EXPERIMENTAL VALIDATION OF A SPECIAL STATE OBSERVER FOR A CLASS<br>OF FLEXIBLE LINK MECHANISMS  |
| S3-06.   | Albano LANZUTTI<br>SMOOTH TRAJECTORY PLANNING ALGORITHMS FOR INDUSTRIAL<br>ROBOTS: AN EXPERIMENTAL EVALUATION  |

- S3-07. Aurelia TĂNĂSOIU, Stelian OLARU  
ON THE LIFETIME OF RAILWAY VEHICLE BEARING STRUCTURES AND COMPONENTS
- S3-08. Corneliu BIRTOK-BĂNEASĂ, Sorin Aurel RAȚIU, Claudiu Alin BERTEAN  
THE STUDY OF INFLOW IMPROVEMENT IN SPARK ENGINES BY USING NEW CONCEPTS OF AIR FILTERS
- S3-09. Veronica ARGESANU, Imre-Albert FARKAS, Ioan LAZA, Mihaela JULA  
SEALING DESIGN IN MACHINE BUILDING
- S3-10. Renato VIDONI  
A MULTI AGENT ROBOTIC SYSTEM FOR SIMULATION AND CONTROL OF A MANUFACTURING PROCESS
- S3-11. József SÁROSI  
ACCURATE POSITIONING OF HUMANOID UPPER ARM
- S3-12. Iosif DUMITRESCU, Dumitru JULA, Vilhelm ITU  
STUDY OF IMPROVEMENT OF ROTATION MECHANISM BALL OF EsRc-1400 ROTOR EXCAVATOR
- S3-13. Adina BUDIUL BERGHIAN, Teodor VASIU, Amalia DASCĂL  
KINETIC AND STATIC ANALYSIS AT LOADED RUNNING OF MECHANISMS OF PARALLEL GANG SHEARS' TYPE ASSIGNED FOR CUTTING THE METALLURGICAL PRODUCTS
- S3-14. Ion Silviu BOROZAN, Veronica ARGESANU, Raul Miklos KULCSAR, Ioan LAZA  
ABOUT THE TENSIONING OF THE BELT DRIVES
- S3-15. Cristina Carmen MIKLOS, Imre Zsolt MIKLOS, Carmen Inge ALIC  
COMPUTER AIDED ANALYSIS OF A DIFFERENTIAL GEAR WITH SIMPLE SATELLITE
- S3-16. Camelia PINCA -BRETOTEAN, Gelu-Ovidiu TIRIAN  
CONSIDERATIONS ON THERMAL FATIGUE INTERNAL COMBUSTION ENGINES
- S3-17. Dinu DRĂGAN, Mircea Cristian ARNĂUTU, Nicușor Laurențiu ZAHARIA, Ion SIMION  
2100 HP DIESEL ELECTRICAL LOCOMOTIVE RUNNING TEST
- S3-18. Mihaela JULA, Raul KULCSAR, Ionut BOROZAN, Imre-Albert FARKAS  
STRUCTURAL AND FUNCTIONAL PARTICULARITIES AS A CRITERION FOR THE DESIGN OF TANGENTIAL BELT DRIVE
- S3-19. Sebastian DUMA, Mihaela POPESCU, Cosmin LOCOVEI  
STUDIES REGARDING THE ACQUIREMENT OF HARDNESS STANDARD BLOCKS FOR TRANSMITTING THE VICKERS HARDNESS SCALE 200...800 HV<sub>1</sub>



- S3-20. Lubomír ŠOOŠ  
NEW METHODOLOGY CALCULATIONS OF RADIAL STIFFNESS NODAL POINTS SPINDLE MACHINE TOOL
- S3-21. Paolo BOSCARIOL, Alessandro GASPARETTO, Albano LANZUTTI, Renato VIDONI, Vanni ZANOTTO  
NEUMESY: A SPECIAL ROBOT FOR NEUROSURGERY
- S3-22. Přemysl MATOUŠEK  
ADAPTIVE CONTROL OF PNEUMATIC SERVOMECHANISM
- S3-23. Todor BAČKALIĆ, Maša BUKUROV  
MODELLING OF THE SHIP LOCKING PROCESS IN THE ZONE OF SHIP LOCK WITH TWO PARALLEL CHAMBERS
- S3-24. József SÁROSI  
INVESTIGATION OF POSITIONING OF FLUID MUSCLE ACTUATOR UNDER VARIABLE TEMPERATURE
- S3-25. Ala'a M. DARWISH  
STABILIZATION OF EMPTY UNDERGROUND CIRCULAR STORAGE TANKS AGAINST UPLIFTING UNDERGROUND WATER FORCES
- S3-26. Gergely DEZSŐ, Gyula VARGA, Ferenc SZIGETI  
INVESTIGATION THE CORRELATION BETWEEN TECHNOLOGICAL PARAMETERS AND THE WEAR IN CASE OF DRILLING WITH MINIMAL LUBRICATION
- S3-27. Jarmila ORAVCOVÁ, František LACKO, Peter KOŠŤÁL  
DEVIATIONS OF WORKPIECE CLAMPING AS FACTOR HAVING INFLUENCE ON ACCURACY OF A SURFACE MACHINED
- S3-28. Tamás ENDRÓDY, Adrián SZÓNYI  
ANALYSING THE 2-7 DOF HUMANOID ROBOT ARM CONSTRUCTIONS AND THE POSSIBILITIES OF CONTROLLING/LEARNING THEIR MOVEMENTS
- S3-29. Flavius Lucian PATER, Ludovic Dan LEMLE  
A DYNAMIC PROCESS MODEL BASED ON A FUNCTIONAL EQUATION
- S3-30. Flavius Lucian PATER, Liana Rodica PATER  
A DYNAMIC PROCESS MODEL BASED ON A FUNCTIONAL EQUATION
- S3-31. Amalia Ana DASCĂL, Adina BUDIUL BERGHIAN  
FOR MEASURING AN AMENDMENT DUROMETER BRINELL HARDNESS AT HOT
- S3-32. Siniša KUZMANOVIĆ, Milan RACKOV  
THE INFLUENCE OF AXIAL LOAD AT OUTPUT SHAFT OF UNIVERSAL WORM AND HELICAL-WORM GEAR UNITS ON THEIR THERMAL POWER CAPACITY
- S3-33. Krassimir E. GEORGIEV  
ADVANCED DESIGN OF MECHATRONIC WORKSTATIONS FOR TECHNOLOGICAL CONTACT OPERATIONS

- S3-34. Juraj HUDÁK, Miroslav TOMÁŠ  
ANALYSIS OF FORCES IN DEEP DRAWING PROCESS
- S3-35. Peter KOŠTÁL, Imre KISS, Petar KERAK  
THE INTELLIGENT FIXTURE AT FLEXIBLE MANUFACTURING
- S3-36. Miroslava KOŠTÁLOVÁ  
ASSEMBLING AND VERIFICATION DESIGN CORRECTNESS OF PRESS TOOLS  
BY HELP OF SYSTEM CATIA
- S3-37. Pavol ČEKAN, Anh NGUYEN THE, Ervin LUMNITZER  
APPLICATION OPPORTUNITIES VIBRATION ANALYSERS
- S3-38. Adalbert KOVÁCS  
THE LAGRANGE INTERPOLATION FORMULA FOR ANALYZING FLUID  
MOVEMENT IN NETWORK PROFILES
- S3-39. Diana STOICA  
DISCRETE ASYMPTOTIC BEHAVIORS OF STOCHASTIC SKEW-EVOLUTION  
SEMIFLOWS IN HILBERT SPACES
- S3-40. Nicușor Laurențiu ZAHARIA, Tiberiu Ștefan MĂNESCU,  
Mihaela Dorica ȘTROIA, Tiberiu MĂNESCU jr.  
DYNAMIC COEFFICIENT DETERMINATION AT A TANK WAGON
- S3-41. Ștefan MAKSAY, Diana STOICA  
CONSIDERATIONS ON THE RECTANGLE TRUNCATED BIDIMENSIONAL  
NORMAL MODELING
- S3-42. Ludovic Dan LEMLE, Tudor BÎNZAR, Lucian Flavius PATER,  
Valentina BALASOIU  
RIESZ-DUNFORD REPRESENTATION THEOREM FOR UNIFORMLY  
CONTINUOUS SEMIGROUPS
- S3-43. Imre Zsolt MIKLOS, Carmen Inge ALIC, Cristina Carmen MIKLOS  
INDEXING DEVICE WITH SPHERICAL ELEMENTS (BALLS)
- S3-44. Teodor VASIU, Adina BUDIUL-BERGHIAN  
THE PORTABLE GRINDERS BLACK& DECKER RELIABILITY DETERMINATION
- S3-45. Carmen Inge ALIC, Sorin Aurel RAȚIU, Vasile ALEXA,  
Cristina Carmen MIKLOS, Imre Zsolt MIKLOS  
CREATE OF INTERACTIVE LEARNING RESOURCES STRUCTURED IN  
DATABASE, FOR THE ACQUISITION OF KNOWLEDGE AND SKILLS IN THE  
WELDING FIELD
- S3-46. Vasile ALEXA, Sorin Aurel RAȚIU, Carmen Inge ALIC  
DESIGN AND IMPEMENTATION FOR AN INFORMATICS APLICATION TO  
WORKING-OUT THE MIG-MAG WELDING TECHNOLOGY
- S3-47. Georgeta Emilia MOCUȚA, Mihaela POPESCU, Ioan Danuț DAN  
THE BEST WAY OF WORKING SPACE ROBOT WHICH EQUIPS A FLEXIBLE  
MANUFACTURING CELL COMPONENT OF WELDED IN RAIL FIELD

- S3-48. Tamás ENDRÓDY  
UNFOLDING THE CONVEX POLYHEDRONS TO A CONNECTED NON-  
OVERLAPPING POLYGON (PREPARING TOOLS FOR CREATIVE PROOF OF  
THE DÜRER'S CONJECTURE)
- S3-49. Vasile George CIOATA, Imre KISS  
SIMULATION SOLIDIFICATION PROCESS OF THE PIECES OBTAINED  
THROUGH DIE FORGING IN THE SEMISOLID STATE
- S3-50. Vasile George CIOATA, Imre KISS  
DETERMINING THE CONTACT FORCES BETWEEN THE WORKPIECE AND  
FIXTURE USING THE FINITE ELEMENT METHOD
- S3-51. L. MIHON, A. NEGOITESCU, A. TOKAR, D. OSTOIA  
MOTOR AND VEHICLE OPTIMIZATION PROCESS MODELING BY USING THE  
AVL CRUISE IN STANDARD APPLICATIONS
- S3-52. Siby ABRAHAM, Imre KISS, Sugata SANYAL, Mukund SANGLIKAR  
STEEPEST ASCENT HILL CLIMBING FOR A MATHEMATICAL PROBLEM



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## **SECTION S04.** **MANAGEMENT IMPLEMENT POLICIES & STRATEGIES**

### **PROGRAM SCHEDULE:**

**1<sup>ST</sup> DAY, Thursday,**  
**4<sup>th</sup> November, 2010**

- 11.30 - 12.00 Setting of posters by sections - in the Halls and in the Amphitheatres of the Faculty
- 12.00 - 14.00 Presentations and debates by sections - in the Faculty's Amphitheatres
- 16.00 - 19.00 Debates by sections - in the Faculty's Amphitheatres

**2<sup>ND</sup> DAY, Friday,**  
**5<sup>th</sup> November, 2010**

- 10.00 - 12.30 Presentations and debates by sections and posters - in the Halls and in the Faculty's Amphitheatres

### **PROGRAM of PRESENTED PAPERS** **(oral presentations and posters):**

| No. crt. | Authors Surname & NAME<br>TITLE OF PRESENTED PAPERS  |
|----------|--|
| S4-01.   | Carmen HĂRĂU<br>MIGRATION AND REMITTANCES - CASE STUDY ON ROMANIA  |
| S4-02.   | Gladiola C. CHETE, Ioana. A. STĂNESCU<br>DECISION MAKING AND BUSINESS INTELLIGENCE SOLUTIONS                                   |
| S4-03.   | Natalia-Cernica BUZGĂU<br>IMPLEMENTATION OF TOTAL PRODUCTIVE MAINTENANCE   |
| S4-04.   | Natalia-Cernica BUZGĂU<br>RELIABILITY-CENTERED MAINTENANCE (RCM)   |
| S4-05.   | Árpád FERENCZ, Márta NÓTÁRI<br>ROLE OF RURAL DEVELOPMENT IN THE PRODUCTION OF THE HUNGARIAN TRADITIONAL HORTICULTURAL PRODUCTS |
| S4-06.   | Márta NÓTÁRI, Árpád FERENCZ<br>THE CENTRAL AND THE LOCAL SYSTEMS OF RURAL DEVELOPMENT IN THE REGION MANAGEMENT                 |
| S4-07.   | M. RAHMOUNI, M.N. LAKHOVA<br>PROPOSAL OF THE INTEGRATION OF THE METHODS SADT AND GRAI IN THE ENTERPRISE                        |

- S4-08. M.N. LAKHOUA  
USING METHODS AND APPROACHES IN IS PLANNING AND REQUIREMENTS ANALYSIS
- S4-09. Zoltán BÁTORI, Tamás HARTVÁNYI  
DEVELOPMENT OF FORECASTING SYSTEMS
- S4-10. Csaba TÁPLER  
INVENTORY LEVEL REDUCTION BY INSERTING UNPACKING STATIONS IN PRODUCTION SUPPLY PROCESS
- S4-11. Ioan MILOSAN  
STUDIES ABOUT THE TOTAL QUALITY MANAGEMENT CONCEPT
- S4-12. Jan MÖLLER, Ulrich J. SCHÖDEL, Christian SCHÖDEL  
MID-SIZE COMPANIES AND LOGISTIC IN THE CHALLENGE OF GLOBALIZATION
- S4-13. Ulrich J. SCHÖDEL, Christian SCHÖDEL, Jan MÖLLER, Miroslav BADIDA  
ECONOMIC ASPECTS OF THE DEVELOPMENT OF ENVIRONMENTAL PROTECTION
- S4-14. Christian SCHÖDEL, Ulrich SCHÖDEL, Jan MÖLLER, Ervin LUMNITZER  
DETERMINING FACTORS INFLUENCING PRODUCTION SITE RELOCATION
- S4-15. Ferenc BAGLYAS, Gábor SUGATAGI  
MULTIVARIATE ANALYSIS IN A WINE MARKET RESEARCH IN HUNGARY
- S4-16. Abdelnaser OMRAN, Imre KISS  
FACTORS INFLUENCING COST OVERRUNS ON CONSTRUCTION PROJECTS
- S4-17. Mohammed Salleh HAMDAD, Abdelnaser OMRAN,  
Abdul Hamid Kadir PAKIR  
IDENTIFYING WAYS TO IMPROVE PRODUCTIVITY AT THE CONSTRUCTION INDUSTRY
- S4-18. Ferenc BAGLYAS  
CONSUMER ATTITUDES TO GLOBAL GRAPE VARIETIES VERSUS HUNGARICUM VARIETIES IN THE SOUTH-ALFÖLD REGION
- S4-19. M. KATA, Z. AIGNER, P. SZABÓ-RÉVÉSZ, Z. SZABADAI, Á. GYÉRESI  
RESEARCH COOPERATION BETWEEN THE UNIVERSITY OF TIMISOARA AND THE UNIVERSITY OF SZEGED
- S4-20. Eva BATEŠKOVÁ, Martina NOVÁKOVÁ, Tibor KRENICKÝ  
TRANSFORMATION OF STN STANDARDS TO EN ISO STANDARDS IN THE FIELD OF ENGINEERING
- S4-21. Abdul Aziz HUSSIN, Abdelnaser OMRAN  
IMPLICATION OF NON-COMPLETION PROJECTS IN MALAYSIA

- S4-22. Eva MATIJEVIC  
APPLICATION OF PROJECT MANAGER METHODOLOGY IN PREPARING OF  
THESIS
- S4-23. Mihaela POPESCU  
DIRECTIONS TO APPROACH ERGONOMICS ISSUES IN WELDING
- S4-24. Mihaela POPA, Florin BUCUR  
STUDY REGARDING COSTILL METHOD EFFICIENCY IN TRAINING OF SEMI-  
FUND RUNNERS
- S4-25. Georgeta Emilia MOCUTA, Ioana IONEL, Mihaela TILINCĂ,  
Luisa Isabela DUNGAN  
ENGINEERING TRAINING SUPPORT THROUGH PRACTICE
- S4-26. Keil REINER, Tamás HARTVÁNYI, Péter NÉMETH  
RELIABILITY-THEORETICAL APPROACHES TO ORGANIZATION OF  
RESOURCE-LIMITED INFRASTRUCTURE CHARGES
- S4-27. Vasile ALEXA, Imre KISS  
METHOD FOR CREATING AND MAINTAINING AN HIGHLY PERFORMING  
SPACE AT THE WORKPLACE
- S4-28. Mihaela POPA, Grigore CONSTANTIN  
SPORTS MARKETING MIX IN THE CONTEXT OF TRADITIONAL MIX  
MARKETING



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## **SECTION S05.** **ENVIRONMENTAL ENGINEERING & ECOLOGY**

### **PROGRAM SCHEDULE:**

**1<sup>ST</sup> DAY, Thursday,**  
**4<sup>th</sup> November, 2010**

- 11.30 - 12.00      Setting of posters by sections - in the Halls and in the Amphitheatres of the Faculty
- 12.00 - 14.00      Presentations and debates by sections - in the Faculty's Amphitheatres
- 16.00 - 19.00      Debates by sections - in the Faculty's Amphitheatres

**2<sup>ND</sup> DAY, Friday,**  
**5<sup>th</sup> November, 2010**

- 10.00 - 12.30      Presentations and debates by sections and posters - in the Halls and in the Faculty's Amphitheatres

### **PROGRAM of PRESENTED PAPERS** **(oral presentations and posters):**

| No. crt. | Authors Surname & NAME<br>TITLE OF PRESENTED PAPERS  |
|----------|--|
| S5-01.   | Marius ARDELEAN, Teodor HEPUȚ, Erika ARDELEAN, Ana SOCALICI<br>HIGH PRODUCTIVITY INSTALLATION FOR THE RECOVERY OF WASTE BY BRIQUETTING OF POWDER   |
| S5-02.   | Irina VÎLCIU, Maria NICOLAE, Emanuela-Daniela STOICA<br>DIFFRACTOMETRIC ANALYSE OF STEEL SLAGS VIEWING THEIR USE FOR ROAD CONSTRUCTION   |
| S5-03.   | Adina Milena TATAR<br>ATMOSPHERIC POLLUTION IN AREA CAREER GARLA   |
| S5-04.   | Avram NICOLAE, Ionel BORS, Cristian PREDESCU, Maria NICOLAE,<br>Mirela SOHACIU, Ecaterina MATEI<br>ELEMENTS OF METALLURGICAL ECONOMY   |
| S5-05.   | Aleksandar DVORNIC, Maja DJOGO<br>Mirjana VOJINOVIC - MILORADOV, Goran VUJIC<br>BIOLOGICAL AND CHEMICAL OXYGEN DEMAND AS INDICATORS OF ORGANIC POLLUTION OF LEACHATE AND PIEZOMETRIC WATER FROM SEMI CONTROLLED, NON SANITARY LANDFILL IN NOVI SAD, SERBIA |
| S5-06.   | Zsuzsanna H.HORVÁTH, Cecília HODÚR<br>ANALYSIS OF COLOUR CHARACTERISTICS OF PAPRIKA POWDER WITH DIFFERENT OIL CONTENT  |

- S5-07. Richard LADANYI  
OPTIMISATION OF SELECTIVE WASTE COLLECTION ROUTES ON THE BASIS OF GEOGRAPHICAL INFORMATION SYSTEM (GIS)
- S5-08. Adina Milena TATAR  
AIR POLLUTION IN THE AREA OF COAL DEPOSITS OF SE ROVINARI. RISK ASSESSMENT
- S5-09. Imre DÉKÁNY  
TITANIUM DIOXIDE AND GOLD NANOPARICLES FOR ENVIRONMENTAL AND BIOLOGICAL APPLICATION
- S5-10. Ana SOCALICI, Erika ARDELEAN, Marius ARDELEAN, Teodor HEPUT  
RESEARCHS REGARDING THE PELETIZING PROCESS OF FEROUS PULVEROUS WASTE
- S5-11. Monika BILOVÁ, Ervin LUMNITZER  
DETERMINATION OF POROUS MATERIALS' ACOUSTICAL PARAMETERS
- S5-12. Vania RANGELOVA, Antonia PANDELOVA, Nikolai STOYANOV  
INHIBITOR MULTIENZYME BIOSENSOR SYSTEM IN DYNAMIC MODE - PHOSPHATE MEASUREMENT
- S5-13. Erika ARDELEAN, Teodor HEPUT, Marius ARDELEAN, Ana SOCALICI  
CAPITALIZATION OF POWDERY WASTE THAT CONTAINING IRON AND BASIC OXIDES UNDER BRIQUETTES FORM
- S5-14. Beata HRICOVÁ, Henrieta NAKATOVÁ  
POSSIBILITIES OF APPLICATIONS OF TOOLS FOR ECODESIGN IN VARIOUS STAGES OF DESIGN PROCESS
- S5-15. Marek MORAVEC, Ervin LUMNITZER, Katarína LUKÁČOVÁ  
APPLICATION OF ACOUSTIC CAMERA FOR MACHINE NOISE VISUALISATION AND DIAGNOSTIC
- S5-16. Sorina Gabriela ȘERBAN, Maria Laura STRUGARIU  
RESEARCH ON WATER QUALITY IN THE CITY HATEG
- S5-17. Lenka RUSINOVÁ, Lenka MAGULÁKOVÁ, Jana POLAČEKOVA  
THE POTENTIAL OF WIND ENERGY AND ITS USAGE IN THE CONDITIONS OF THE SLOVAK REPUBLIC
- S5-18. Miriama PIŇOSOVIÁ, Pavol LIPTAI, Ervin LUMNITZER  
NOISE AND ITS SOURCES FOR THE REDUCTION IN WORK ENVIRONMENT
- S5-19. Sándor BESZÉDES, Nora PAP, Eva PONGRACZ,  
Riitta L. KEISKKI, Cecilia HODÚR  
DEVELOPMENT OF MEMBRANE WASTEWATER PURIFICATION PROCESS FOR MEAT INDUSTRY SME'S
- S5-20. Abdelnaser OMRAN, Abdelsalam O. GEBRIL  
STUDY OF HOUSEHOLD ATTITUDE TOWARD RECYCLING OF SOLID WASTES: A CASE STUDY



- S5-21. Katarína KORÁLOVÁ  
ENVIRONMENTAL ASPECTS SAFETY RISKS
- S5-22. Katarína LUKÁČOVÁ, Miroslav BADIDA, Marek MORAVEC  
GENERAL PROCESS HOW TO ASSESS EXPOSURE TO SOLID AEROSOL IN  
WORKING ENVIRONMENT
- S5-23. Lenka MAGULÁKOVÁ, Lenka RUSINOVA, Ladislav BARTKO  
POSSIBILITY OF USAGE A NONSTANDARD SOURCES FOR WIND ENERGY
- S5-24. Zsuzsa FARKAS, Péter LÉVAI  
GROWING GREENHOUSE CUT FLOWER IN HYDRO-CULTURE
- S5-25. Andra PREDESCU, Ecaterina MATEI, Andrei PREDESCU, Bogdan STROE  
METHODS FOR RECOVERY AND RE-USE OF SLUDGE RESULTED FROM  
WASTE WATER TREATMENT
- S5-26. Siniša BIKIĆ, Maša BUKUROV, Dušan UZELAC,  
Slobodan TAŠIN, Marko ĐURĐEVIĆ  
TESTING OF FILTER NOZZLE BY COLUMN
- S5-27. Dan CONSTANTINESCU, Mirela SOHACIU  
ENERGY AND METAL SAVING IN THE HEATING FURNACES MEANS A  
CLEANER ENVIRONMENT
- S5-28. Georgeta Emilia MOCUȚA  
Promotion OF PASSENGER rail transport as a friendly solution TO  
ENVIRONMENT



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