



**INTERNATIONAL
SYMPOSIUM
“INTERDISCIPLINARY
REGIONAL RESEARCH”**

**ISIRR
2009**

ROMANIA - HUNGARY - SERBIA



PROGRAM

Hunedoara, ROMANIA
23 - 24 April, 2009

ORGANIZERS:

**ASSOCIATION FOR MULTIDISCIPLINARY RESEARCH
IN WEST ZONE OF ROMANIA (ACM-V) – TIMISOARA**



UNIVERSITY POLITEHNICA – TIMISOARA, FACULTY OF ENGINEERING – HUNEDOARA



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



in collaboration with our international traditional partners:

**HUNGARIAN ACADEMY OF SCIENCE
- branch of SZEGED, HUNGARY**



**UNIVERSITY OF NOVI SAD,
NOVI SAD, SERBIA**



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ROMANIA**



**ANNALS OF FACULTY ENGINEERING
HUNEDOARA - JOURNAL OF ENGINEERING**





INTERNATIONAL ORGANIZING AND SCIENTIFIC COMMITTEE



ROMANIA

Prof. dr. Nicolae FARBAȘ

– head of ASSOCIATION for MULTIDISCIPLINARY RESEARCH
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ROMANIA

Prof. dr. eng. Teodor HEPUȚ

– dean of the FACULTY of ENGINEERING – HUNEDOARA
UNIVERSITY POLITEHNICA TIMISOARA



ROMANIA

Prof. h.c. dr. eng. Gallia BUTNARU

– „BANATUL” UNIVERSITY of AGRICULTURAL SCIENCES
and VETERINARY MEDICINE TIMISOARA



HUNGARY

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– president of HUNGARIAN REGIONAL ACADEMY OF SCIENCES,
DEPARTMENT of COLLOID CHEMISTRY, UNIVERSITY of SZEGED



HUNGARY

Prof. dr. Maria HOMOKI-NAGY

– scientific secretary of HUNGARIAN REGIONAL ACADEMY OF SCIENCES,
GRADUATE SCHOOLS of the UNIVERSITY of SZEGED



HUNGARY

Prof. dr. Cecilia HODUR

– member of HUNGARIAN REGIONAL ACADEMY OF SCIENCES,
FACULTY of FOOD ENGINEERING, UNIVERSITY of SZEGED



SERBIA

Prof. dr. Radmila MARINKOVIC-NEDUCIN

– rector of the UNIVERSITY of NOVI SAD,
FACULTY of TECHNOLOGY, NOVI SAD



SERBIA

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FACULTY of TECHNICAL SCIENCES, NOVI SAD



SERBIA

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FACULTY of TECHNICAL SCIENCES, NOVI SAD



ROMANIA

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(AGIR) – branch of HUNEDOARA



ROMANIA

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member of ASSOCIATION for MULTIDISCIPLINARY RESEARCH



ROMANIA

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UNIVERSITY POLITEHNICA TIMISOARA



ROMANIA

Prof. dr. Stefan MAKSAJ

– scientific secretary of FACULTY of ENGINEERING – HUNEDOARA
UNIVERSITY POLITEHNICA TIMISOARA



REGIONAL ORGANIZING COMMITTEE



ROMANIA

Assoc. Prof. dr. eng. Ana Virginia SOCALICI
– vice-dean of **FACULTY of ENGINEERING – HUNEDOARA**
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Assist. ec. dr. eng. Vasile ALEXA
– coordinator of organizing activities of the **ISIRR 2009**,
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UNIVERSITY POLITEHNICA TIMISOARA

Assist. dr. eng. Sorin RAȚIU
– coordinator of organizing activities of the **ISIRR 2009**,
FACULTY of ENGINEERING – HUNEDOARA
UNIVERSITY POLITEHNICA TIMISOARA

Assist. dr. eng. Vasile George CIOATĂ
– coordinator of organizing activities of the **ISIRR 2009**,
FACULTY of ENGINEERING – HUNEDOARA
UNIVERSITY POLITEHNICA TIMISOARA

SECRETARY OFFICE OF THE ORGANIZING COMMITTEE:



ROMANIA



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SCHEDULE OF EVENTS

1ST DAY, Thursday, 23rd April, 2009

- 08.00 – 10.00 *Welcoming of guests and registration of participants – in the HALL of Faculty of Engineering – Hunedoara*
- 10.00 – 10.20 *Opening Ceremony – in the AMPHITHEATRE of Faculty of Engineering*
- 10.20 – 10.40 *Plenary Lecture # 1
FROM THE RETEZAT NATIONAL PARK TO EUROPE'S "YELLOWSTONE" - SEEDS FOR THOUGHTS FOR THE ESTABLISHMENT AND EFFICIENT MANAGEMENT OF EUROPE'S LARGEST PROTECTED AREA COVERING THE SOUTHERN AND WESTERN CARPATHIANS IN ROMANIA AND SERBIA
Dr. Erika STANCIU – WWF Danube Carpathian Programme, Carpathian, Forests and Protected Area Leader, Retezat National Park President*
- 10.40 – 11.00 *Plenary Lecture # 2
SUSTAINABLE DEVELOPMENT AND THE ECONOMIC CRISIS
Dr. Carmen HĂRĂU – UNIVERSITY POLITEHNICA TIMIȘOARA FACULTY OF ENGINEERING – HUNEDOARA*
- 11.00 – 11.20 *Plenary Lecture # 3
SLAG – UTILIZATION IN ROAD CONSTRUCTION – EXPERIENCE AND SOLUTIONS
Eng. Rodica ISTRATE – Business Services Prest SRL Hunedoara*
- 11.20 – 11.40 *Plenary Lecture # 4
ADVANCED TECHNIQUES IN ELECTRON SPECTROSCOPY FOR SURFACE AND INTERFACE STUDIES,
Prof. Dr. Bernard GRUZZA – Polytech'Clermont-Ferrand UFR Sciences, Université Blaise Pascal – Clermont II Clermont-Ferrand, Head of the research group “Surfaces and Interfaces”, Laboratoire des Sciences des Matériaux pour l'Electronique et d'Automatique , LASMEA, France*
- 11.40 – 12.00 *Coffee break – in the HALLS of Faculty of Engineering – Hunedoara*
- 12.00 – 12.30 *Setting of posters by sections – in the HALLS of the Faculty of Engineering*
- 12.30 – 14.00 *Presentations and debates by sections – in AMPHITHEATRES of the Faculty of Engineering*
- 14.00 – 16.00 *Break for lunch – in STUDENT RESTAURANT of the Faculty of Engineering*
- 16.00 – 19.00 *Debates by sections – in the Amphitheatres of Faculty of Engineering*
- 19.00 *Festive dinner – in the HOTEL MAIER – HUNEDOARA ****



2ND DAY, Friday, 24th April, 2009

- 08.00 – 10.00 Breakfast – in the STUDENT RESTAURANT of the Faculty
- 10.00 – 12.00 Presentations and debates by sections and posters – in HALLS and in AMPHITHEATRES of the Faculty
- 12.00 – 12.30 Coffee break
- 12.30 – 13.30 Informative Meeting – in the COUNCIL CHAMBER of the Faculty
- 13.30 – 14.00 Final debates and Closing Ceremony – in the AMPHITHEATRE of Faculty
- 14.00 – 15.00 Break for lunch – in STUDENT RESTAURANT of the Faculty
- 15.00 Visit to tourist sights (CORVIN CASTLE and surroundings)

SYMPOSIUM TOPICS

SECTION 1.

ECONOMICAL DEVELOPMENT AND STRATEGIES IN OUR REGIONS AND ABROAD

SECTION 2.

MEDICAL ISSUES, LABOR HEALTH AND VETERINARY MEDICINE

SECTION 3.

**APPLIED ECOLOGY AND ENVIRONMENTAL PROTECTION IN THE REGION,
INCLUDING BIOLOGY**

SECTION 4.

**USES OF NATURAL RESOURCES IN REGIONS, MINING,
ENERGY CONSERVATION AND PLANNING, INCLUDING AGRICULTURE**

SECTION 5.

**APPLIED SCIENCES AND TECHNOLOGIES –
MANUFACTURING AND RESEARCH IN ENGINEERING FIELDS**

SUBSECTION 5a.

**APPLIED SCIENCES AND TECHNOLOGIES –
MANUFACTURING AND RESEARCH IN MECHANICAL ENGINEERING**

SUBSECTION 5b.

**APPLIED SCIENCES AND TECHNOLOGIES –
MANUFACTURING AND RESEARCH IN INFORMATICS & ELECTRICAL ENGINEERING**

SUBSECTION 5c.

**APPLIED SCIENCES AND TECHNOLOGIES –
MANUFACTURING AND RESEARCH IN MATERIAL SCIENCE ENGINEERING**

SECTION 6.

**METHODS AND TECHNIQUES, INSTRUMENTS AND SUPPLIES
IN THE NATURAL SCIENCE FIELDS**

SUBSECTION 6a.

**METHODS AND TECHNIQUES, INSTRUMENTS AND SUPPLIES
IN THE FIELDS OF CHEMISTRY AND PHYSICS**

SUBSECTION 6b.

**METHODS AND TECHNIQUES, INSTRUMENTS AND SUPPLIES
IN THE FIELD OF MATHEMATICS**

&

INFORMATIVE MEETING



SECTION 1.
ECONOMICAL DEVELOPMENT AND STRATEGIES
IN OUR REGIONS AND ABROAD

- focusing on problems concerning the general field of economics and management, the European Integration of our countries, the differences between the development of the regions from Eastern Europe and the management of diminishing unfavourable differences, including aspects regarding the globalization and economy of small and medium enterprises, human resources, management strategies and organization behaviour, provides a leading forum for interaction and research on the competitive strategies of managers and the organizational structure of firms;

MODERATORS:



ROMANIA

Marius Călin BENEĂ
UNIVERSITY POLITEHNICA
TIMISOARA, FACULTY of
ENGINEERING – HUNEDOARA



HUNGARY

Árpád FERENCZ
COLLEGE of KECSKEMET,
ECONOMICS RURAL
DEVELOPMENT



SERBIA

Vladimir KATIC
UNIVERSITY of NOVI SAD,
FACULTY of TECHNICAL
SCIENCES, NOVI SAD

PROGRAM SCHEDULE:

Faculty of Engineering – Hunedoara
Amphitheatre # 1 – Group C , Floor 1
Presentations and debates by sections

1ST DAY, Thursday, 23rd April, 2009

12.30 – 14.00 and 16.00 – 19.00

2ND DAY, Friday, 24th April, 2009

10.00 – 12.00

Faculty of Engineering – Hunedoara
Central Hall # 1 – Group C , Floor 1
Presentations and debates by posters

1ST DAY, Thursday, 23rd April, 2009

16.00 – 19.00

PROGRAM of PRESENTED PAPERS (oral presentations and posters):

No. crt.	Representing the Country:	TITLE OF PRESENTED PAPERS Authors
S1- 01.	HUNGARY	THE ANALYSIS OF THE SALE PROMOTION-LIKING IN THE GROUP OF THE YOUNG Edina VINCZE-LENDVAI

- S1-02. **HUNGARY** **MENTAL MAPPING IN GEOGRAPHICAL APPROACH AND REGIONAL ENVIRONMENTAL DISPARITIES AT FRONTIERS**
Ildikó HORVÁTH GÁLNÉ, József GÁL
- S1-03. **ROMANIA** **ONLINE TRANSMISSION OF TAX RETURNS – A STRATEGIC GOAL OF SERVICE E-GOVERNMENT IN ROMANIA**
Alin ISAC, Claudia ISAC
- S1-04. **SERBIA, GREECE, BULGARIA, GERMANY** **SOME RESULTS OF MAPPING OF MASS CUSTOMIZATION ACTIVITIES IN SOUTH-EAST OF EUROPE**
Zoran ANISIC, Boris TUDJAROV, Alexander TSIGKAS, Christos CHATZOPOULOS, Robert FREUND
- S1-05. **ROMANIA** **ECONOMIC AND SOCIAL IMPLICATIONS OF UNEMPLOYMENT AND OPPORTUNITIES OF DIMINISHING IT**
Alina FLEŞER, Oana DOBRE-BARON
- S1-06. **ROMANIA** **THE JIU VALLEY’S EXTRACTIVE INDUSTRY TRANSITION TO THE MARKET ECONOMY**
Oana DOBRE-BARON, Alina FLEŞER
- S1-07. **ROMANIA** **NEW DEVELOPMENTS IN THE RELATIONSHIP SELLING APPROACH**
Marius Călin BENEĂ
- S1-08. **ROMANIA** **INTERNAL MARKETING AND PERFORMANCE IN SERVICES ORGANIZATIONS**
Marius Călin BENEĂ
- S1-09. **ROMANIA** **MARKET BASED INSTRUMENTS – EFFECTIVE TOOLS FOR ENVIRONMENTAL STABILITY IN EUROPEAN UNION**
Luminița VOCHIȚA, Ramona GRUESCU
- S1-10. **HUNGARY** **SOME ASPECTS OF THE HUNGARIAN SPATIAL AND SETTLEMENT DEVELOPMENT**
Tamás BESZE, Miklós LUKOVICS
- S1-11. **HUNGARY** **THE STRENGTH OF INTELLECTUAL PROPERTY PROTECTION AND THE TRANSFER OF TECHNOLOGIES**
Benedek NAGY
- S1-12. **HUNGARY** **REGIONAL SUSTAINABILITY INDICATORS**
Mónika TÓTH
- S1-13. **HUNGARY** **ROLE OF PROXIMITY IN INFORMATION TECHNOLOGY CLUSTERS (IN SZEGED AND ITS SUBREGION)**
Zsófia VAS
- S1-14. **HUNGARY** **TECHNOLOGICAL CHANGE AND SUSTAINABILITY - PART OF THE PROBLEM OR THE SOLUTION?**
Zoltán BAJMÓCY, György MÁLOVICS, Zsuzsanna TYETYÁK
- S1-15. **HUNGARY** **INFLUENCE OF TRADITIONAL PRODUCTS TO THE REGION MANAGEMENT IN HUNGARY**
Márta NÓTARI, Csaba BERDE, Árpád FERENCZ
- S1-16. **ROMANIA** **SUSTAINABLE DEVELOPMENT AND THE ECONOMIC CRISIS**
Carmen HĂRĂU

- S1-17. HUNGARY *ECONOMIC AND MARKETING EXAMINATION OF TRADITIONAL HORTICULTURAL PRODUCTS AMONG THE COSTUMERS IN HUNGARY*
Árpád FERENCZ, Márta NÓTARI
- S1-18. ROMANIA *MANAGING PRODUCTION ACTIVITIES USING THE BALANCED SCORECARD STRATEGIC MANAGEMENT SYSTEM*
Vasile ALEXA, Imre KISS, Sorin RAȚIU
- S1-19. HUNGARY *SPATIAL DISTRIBUTION OF KNOWLEDGE INTENSIVE INDUSTRIAL SECTIONS IN HUNGARY*
Izabella SZAKÁLNÉ KANÓ
- S1-20. HUNGARY *ECONOMIC THEORIES, INSTITUTIONS AND REGIONAL COMPETITIVENESS*
Zsolt FENYŐVÁRI





SECTION 2. MEDICAL ISSUES, LABOR HEALTH AND VETERINARY MEDICINE

- focusing on novelties in medical studies and veterinary medicine, medical advice, diagnoses and treatment, including new knowledge on pathogens, immunity to pathogenic micro-organisms, epidemiology related to infections, specific aspects of treatment of diseases, pathological and clinical studies (including case reports), diagnosis tests and technical reports, as well as labour related accidents and professional diseases;

MODERATORS:



ROMANIA

Aurel JECU AVRAM
„VICTOR BABEȘ” UNIVERSITY of
MEDICINE and PHARMACY,
TIMIȘOARA



HUNGARY

András PAPP
UNIVERSITY of SZEGED, FACULTY
of MEDICINE, DEPARTMENT of
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SERBIA

Slobodanica STANCOVIC
UNIVERSITY of NOVI SAD,
FACULTY of TECHNICAL
SCIENCES, NOVI SAD

PROGRAM SCHEDULE:

Faculty of Engineering – Hunedoara
Amphitheatre # 1 – Group B, Floor 2
Presentations and debates by sections

1ST DAY, Thursday, 23rd April, 2009

12.30 – 14.00 and 16.00 – 19.00

2ND DAY, Friday, 24th April, 2009

10.00 – 12.00

Faculty of Engineering – Hunedoara
Halls # 1-2 – Group B, Floor 2
Presentations and debates by posters

1ST DAY, Thursday, 23rd April, 2009

16.00 – 19.00

PROGRAM of PRESENTED PAPERS (oral presentations and posters):

No. crt.	Representing the Country:	TITLE OF PRESENTED PAPERS Authors
S2-01.	HUNGARY	REAL-TIME MULTIPLEX PCR ASSAY FOR INVESTIGATION OF THE KINESIN LIGHT-CHAIN 1 GENE A185C AND C406T MUTATIONS Ferenc SOMOGYVÁRI, Zoltán SZOLNOKI, Lívia DÉZSI, Yvette MÁNDI
S2-02.	HUNGARY	NEONATAL SURGERY IN SZEGED, HUNGARY László JUHÁSZ, Szabolcs TORNYOS, Sándor TÚRI

- S2-03. HUNGARY GENERAL AND NERVOUS SYSTEM EFFECTS OF LEAD APPLIED IN NANOPARTICULATE FORM INTO THE TRACHEA OF RATS
András PAPP, Leila SÁRKÖZI
- S2-04. ROMANIA THE HEAVY METALS MONITORING IN CANNED VEGETABLES MIX
I. DAVID, F. BERBENTEA, M. ȘTEFANUȚ, L. GEORGESCU, G. BUJANCĂ, T. TRAȘCĂ, M. DANCI, Oana DANCI
- S2-05. HUNGARY EFFECTS OF SOME CALCIUM CHANNEL BLOCKER DERIVATIVES ON THE
INDIA MULTIDRUG RESISTANCE OF CANCER CELLS
JAPAN *Julianna SERLY, Anamik SHAH, Noboru MOTOHASHI, Masami KAWASE, Joseph MOLNAR*
- S2-06. HUNGARY DESIGN AND FABRICATION OF A TEST-BED AIMED FOR EXPERIMENT WITH
PNEUMATIC ARTIFICIAL MUSCLE
János GYEVIKI
- S2-07. HUNGARY INTERNATIONAL COMPARISON OF BLOOD PRESSURE AND BMI VALUES IN
SCHOOLCHILDREN AGED 11-16 YEARS
Ákos BARÁTH, Krisztina BODA, Mária TICHY, Éva KÁROLY, Sándor TÚRI
- S2-08. HUNGARY MICROVASCULAR REACTIVITY IN JUVENILE ESSENTIAL HYPERTENSION
Péter MONOSTORI, Ákos BARÁTH, Ildikó FAZEKAS, Eszter HÓDI, Adrienn MÁTÉ, Zsuzsanna HRACSKÓ, Eszter KARG, Ilona VARGA, Viktória SÜMEGI, Balázs GELLÉN, Csaba BEREZKI, Sándor TÚRI
- S2-09. HUNGARY QUALITY CHANGES IN REGIONAL FOOD PRODUCTS AS A CONSEQUENCE OF
CONSERVATION TREATMENT
Tibor PÁLI, J. KISPÉTER, M. FEKETE, L. FEHÉR, E. FODOR, L. KOVÁCS, ZS. LÁSZLÓ, K. BAJÚSZ-KABÓK, G. SZABÓ
- S2-10. HUNGARY EFFECT OF CHLOROPHYLL A AND B ON MULTIDRUG RESISTANCE OF CANCER
CELLS
Margit SZABÓ, Lajos TANÁCS, József MOLNÁR, Imre OCSOVSKI
- S2-11. HUNGARY IN VITRO SUSCEPTIBILITY OF DIFFERENT ZYGOMYCETES TO COMBINATIONS OF
SURAMIN AND FLUVASTATIN
László GALGÓCZY, Máté VIRÁGH, Tamás PAPP, Csaba VÁGVÖLGYI
- S2-12. HUNGARY NEWBORN SCREENING FOR METABOLIC DISORDERS WITH TANDEM MASS
SPECTROMETRY IN METABOLIC SCREENING CENTER OF SZEGED
F. PAPP, Gy. KARG, Gy. WITTMANN, M. TÖRÖK, Péter MONOSTORI, Ákos BARÁTH, Sándor TÚRI
- S2-13. HUNGARY MIGRAINE HEADACHE AND COMORBID CONDITIONS IN WOMEN:
RETROSPECTIVE ANALYSIS
Délia SZOK, Éva PÁLINKÁS, Zsófia MAJLÁTH, Anita KISS, Aurélia UNGUREÁN, Árpád PÁRDUTZ, János TAJTI, László VÉCSEI
- S2-14. ROMANIA IMPLANT SUPPORTED OVERDENTURES
Cornel Radu CÂMPEANU
- S2-15. ROMANIA RETENTION FOR IMPLANT SUPPORTED OVERDENTURES
Cornel Radu CÂMPEANU
- S2-16. ROMANIA QUO VADIS, SEXUALITY?
Daniela BOTAȘ

- S2-17. **ROMANIA** **SHORT-TERM URETERAL STENTING IN URETEROLITHOTRIPSY**
Emil MITRANOVICI
- S2-18. **ROMANIA HUNGARY** **STANDARDIZATION OF THE EXPERIMENTAL MODEL OF ISOLATED PERFUSED RAT HEART ACCORDING TO LANGENDORFF**
Nicoleta MIRICĂ, Valentin ORDODI, Attila FARKAS, Andreea RADUCAN, Oana DUICU, Mircea HANCU, Norbert JOST, Andras TOTH, Alexandru CRISTESCU, Danina MUNTEAN, Andras VARRO
- S2-19. **ROMANIA HUNGARY** **COMPARATIVE STUDY OF THE RAPID DELAYED RECTIFIER POTASSIUM CURRENT (IKR) IN DOG, RABBIT AND GUINEA PIG CARDIAC VENTRICULAR PREPARATIONS**
Dimostenis TRAMBARIS, Cosmin NISTORAN, Norbert JOST, Laszlo VIRAG, Attila KRISTOF, Zsofia KOHAJDA, Mircea HANCU, Danina MUNTEAN, Andras VARRO, Al. CRISTESCU
- S2-20. **ROMANIA** **ACUTE APPENDICITIS - ALTERNATIVES AT THE CLASSICAL TREATMENT**
Aurel Jecu AVRAM, Iulian AVRAM, Simona MANCIU, Mihaela PASZTORI, Mihaela AVRAM, Corina STĂNCIULESCU
- S2-21. **ROMANIA** **MINIMAL INVASION TECHNIQUES IN THE INGUINAL HERNIA TREATMENT**
Aurel Jecu AVRAM, Iulian AVRAM, Simona MANCIU, Mihaela PASZTORI, Mihaela AVRAM, Corina STĂNCIULESCU
- S2-22. **ROMANIA** **THE IMPORTANCE OF VASCULAR DISEASES PRECOCIOUS HUNTING OUT THROUGH THE ECHO DOPPLER VASCULAR EXAMINATION USE**
Mihaela PASZTORI, Aurel Jecu AVRAM, Iulian AVRAM, Simona MANCIU, Mihaela AVRAM, Corina STĂNCIULESCU
- S2-23. **ROMANIA** **METHODOLOGICAL SUPERVISING OF THE MOTOR CAPACITY DEVELOPMENT**
Constantin GRIGORE
- S2-24. **ROMANIA** **INFORMATICALLY SYSTEM FOR EVALUATION PROCESS OF THE SPORT TESTS**
Constantin GRIGORE, Vasile ALEXA, Sorina ȘERBAN
- S2-25. **ROMANIA** **USING TAMSULOSIN FOR DISTAL URETERAL STONE CLEARANCE WITH OR WITHOUT SHOCK WAVE**
Emil MITRANOVICI



SECTION 3.

APPLIED ECOLOGY AND ENVIRONMENTAL PROTECTION IN THE REGION, INCLUDING BIOLOGY

- focusing on the management of the city and on industrial waste materials, debating issues concerning the environmental engineering, the environmental impact analysis and assessment, the industrial and urban environmental management, the cleaning process, pollution agents and pollution sources, water – air – soil quality analysis, the reutilisation of industrial wastes and the diminishing of pollution and the environmental planning and environmental protection in the regions of the Eastern Europe area;

MODERATORS:



ROMANIA

Teodor HEPUT
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TIMISOARA, FACULTY of
ENGINEERING – HUNEDOARA



HUNGARY

Tamás ENDRŐDY
UNIVERSITY of SZEGED,
FACULTY of ENGINEERING,
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SERBIA

Mirjana MILORADOV VOJINOVIC
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FACULTY of TECHNICAL SCIENCES,
NOVI SAD

PROGRAM SCHEDULE:

Faculty of Engineering – Hunedoara
Amphitheatre # 4 – Group B, Floor 2
Presentations and debates by sections

1ST DAY, Thursday, 23rd April, 2009

12.30 – 14.00 and 16.00 – 19.00

2ND DAY, Friday, 24th April, 2009

10.00 – 12.00

Faculty of Engineering – Hunedoara
Halls # 3-4 – Group B, Floor 2

Presentations and debates by posters

1ST DAY, Thursday, 23rd April, 2009

16.00 – 19.00

PROGRAM of PRESENTED PAPERS (oral presentations and posters):

No. crt.	Representing the Country:	TITLE OF PRESENTED PAPERS Authors
53-01.	HUNGARY	PRODUCTION OF CELLULOLYTIC ENZYMES ON AGRICULTURAL WASTE BY DIFFERENT ZYGO MYCETES Miklós TAKÓ, Szabina LUNG, Judit KRISCH, Tamás PAPP, Csaba VÁGVÖLGYI

- 53-02. **HUNGARY** **BETA-CAROTENE PRODUCTION BY MUCORALEAN FUNGI**
Tamás PAPP, Gábor NAGY, Árpád CSERNETICS, András SZEKERES, Csaba VÁGVÖLGYI
- 53-03. **HUNGARY** **STRESS RESPONSES OF GENETICALLY MODIFIED MUCOR CIRCINELLOIDES STRAINS**
Nikoletta KÁLMÁN, Ottó BENCsik, Miklós PESTI, Tamás PAPP, Csaba VÁGVÖLGYI
- 53-04. **ROMANIA** **ACOUSTICAL ARRANGEMENT OF THE URBAN ROADS**
Vasile BACRIA, Nicolae HERIŞANU
- 53-05. **HUNGARY** **HEAT TREATMENT OPTIMIZATION OF CANNED MEATS IN TERMS OF THE RESOURCE UTILIZATION AND THE QUALITY OF THE PRODUCTS**
Zoltán FABULYA, György HAMPEL, Margaret NAGY
- 53-06. **HUNGARY** **BLACK POPLAR (POPULUS NIGRA) GENE CONSERVATION IN THE SAND RIDGE REGION BETWEEN THE DANUBE AND THE TISZA**
Gábor SZULCSÁN
- 53-07. **SERBIA** **MORPHO-ANATOMICAL ANALYSIS OF SPIKE OF WHEAT GENOTYPES**
J. LUKOVIĆ, L. ZORIĆ, Lj. MERKULOV, M. KODRANOV, B. KIPROVSKI
- 53-08. **HUNGARY** **STATISTICAL EXPERIMENTAL DESIGN OF THE REMOVAL OF DIFFERENT COMPOUNDS FROM SYNTHETIC WASTEWATER BY MICELLAR-ENHANCED ULTRAFILTRATION**
Szabolcs KERTÉSZ, Junkal LANDABURU-AGUIRRE, Veronica GARCIA, Cecília HODÚR, Eva PONGRÁCZ, Riitta L. KEISKI
- 53-09. **SERBIA** **PLANT COVER OF THE SALINE GRASSLAND IN THE RIPARIAN ZONE OF THE OKANJ OXBOW LAKE (THE VOJVODINA PROVINCE, SERBIA)**
A. KNEŽEVIĆ, P. BOŽA, M. STANKOV, LJ. NIKOLIĆ, S. STOJANOVIĆ, D. DŽIGURSKI, B. LJEVNAIĆ, D. POLIĆ
- 53-10. **HUNGARY** **GREEN MOULD DISEASE OF OYSTER MUSHROOM IN HUNGARY AND ROMANIA: ECOPHYSIOLOGY OF THE CAUSATIVE AGENTS**
László KREDICS, Péter KÖRMÖCZI, Tímea CSEH, Lóránt HATVANI, László MANCZINGER, Adrienn NAGY, Csaba VÁGVÖLGYI
- 53-11. **SERBIA** **CHANGES OF FLORISTIC COMPOSITION IN THE GLOŽAN CONSTRUCTED WETLAND SYSTEM (THE VOJVODINA PROVINCE, SERBIA)**
Ljiljana NIKOLIĆ, Slobodanka STOJANOVIĆ, Aleksa KNEŽEVIĆ, Dejana DŽIGURSKI, Branka LJEVNAIĆ
- 53-12. **ROMANIA** **ECOLOGICAL RECONSTRUCTION IN THE BANAT BLACK PINE SITE FROM “DOMOGLED-VALEA CERNEI” NATIONAL PARK**
Eugeniu-Corneliu FRĂŢILĂ
- 53-13. **HUNGARY** **MENTAL MAPPING IN GEOGRAPHICAL APPROACH AND REGIONAL ENVIRONMENTAL DISPARITIES AT FRONTIERS**
Ildikó HORVÁTH GÁLNE, József GÁL
- 53-14. **ROMANIA** **BIO SOLIDS AND VOLCANIC TUFF INFLUENCE OVER THE UPTAKE COEFFICIENT OF CADMIUM AND ZINC FROM POLLUTED SOILS IN MAIZE CULTIVATION**
Smaranda MASU, Valeria RUS, N. DRAGOMIR, Stela URUIOC, Mariana ALBULESCU

- 53-15. **SERBIA** **ANALYSIS OF PRECIPITATION QUANTITY IN VOJVODINA**
Atila BEZDAN, Radovan SAVIC, Atila SALVAI
- 53-16. **ROMANIA GERMANY** **ROMANIAN STEEL INDUSTRY IN THE THIRD YEAR OF EU INTEGRATION - ENVIRONMENTAL ISSUE TO COMPLY THE EU STANDARDS AND REGULATION – BADISCHE STAHL-ENGINEERING GERMANY “OFF GAS” CONCEPT**
Rodica ISTRATE, Manfred SCHMITT
- 53-17. **SERBIA** **CATEGORIZATION OF ALLUVIAL DEPOSITS FROM THE CONTENT OF IRON AND ALKALIZATION IN TOTAL SUSPENDED SOLIDS FROM HS DTD OF SOUTHERN BANAT REGION**
K. NEMES, R. BUGARSKI, M. MATAVULI, S. BELIĆ
- 53-18. **SERBIA** **THE INFLUENCE OF TRIBUTARIES ON LOWER RIVER TISA BASIN WATER SUPPLY NETWORK**
K. NEMES, R. BUGARSKI, Z. LOZANOV-CRVENKOVIĆ, S. BELIĆ.
- 53-19. **SERBIA** **OBTAINING INFORMATION FOR RIVER DANUBE ECOLOGICAL STATUS FROM CITY OF NOVI SAD**
Karolina NEMES, Milan MATAVULY
- 53-20. **HUNGARY** **ENVIRONMENTAL IMPACTS OF NITRATE AND NITRITE**
Gábor NAGY, Zoltán GALBÁCS
- 53-21. **HUNGARY** **SUPPORTING THE REASONABLE AGRICULTURAL PRODUCTION WITH A NEWLY FOUNDED ENVIRONMENTAL LABORATORY IN THE SOUTH EASTERN REGION OF HUNGARY**
Gábor NAGY, Tünde NYILAS, Szilvia ÖRDÖG, Anita VOLFFORD
- 53-22. **HUNGARY** **ARSENIC PROBLEM AND POSSIBLE SOLUTION FOR DRINKING WATER**
Tamás BUJDOSÓ, Ágnes PATZKÓ, Zoltán GALBÁCS, István LICSKÓ, Imre DÉKÁNY
- 53-23. **ROMANIA** **SLAG – UTILIZATION IN ROAD CONSTRUCTION – EXPERIENCE AND SOLUTIONS**
Rodica ISTRATE, Adrian CALIMENTE
- 53-24. **SERBIA** **PROBLEMS IN THE PROCESS OF WASTE WATER TREATMENT ON THE SUBOTICA WASTE WATER TREATMENT PLANT (WWTP)**
Aleksandra KURTES, Bojana BURGER, Imre CSEKE, Mirjana MILORADOV VOJINOVIC
- 53-25. **SERBIA** **THE METHOD OF RISK ASSESSMENT AT WORKPLACE AND WORKING ENVIRONMENT IN AN EXAMPLE OF A METAL MECHANICAL PROCESSING SECTION OF A FACTORY**
Bozo NIKOLIC, Biljana GEMOVIC
- 53-26. **SERBIA** **METHODOLOGICAL FRAMEWORK FOR THE STRATEGIC ENVIRONMENTAL IMPACT ASSESSMENT (SEIA) OF SPATIAL PLANS IN AUTONOMOUS PROVINCE OF VOJVODINA**
Dejan FILIPOVIĆ, Tamara ZELENOVIĆ VASILJEVIĆ, Mirjana VOJINOVIĆ MILORADOV, Maja ĐOGO, Ivana MIHAJLOVIĆ, Milena STOŠIĆ
- 53-27. **SERBIA** **POLYCHLORINATED BIPHENYLS (PCBs), IN SOUTH BAČKA – FROM THE ENVIRONMENT TO HUMAN MILK**
Mirjana VOJINOVIĆ MILORADOV, Tamara VUKAVIĆ, Jan SUDI, Marija JEVTIĆ, Ivana MIHAJLOVIĆ

- 53-28. **SERBIA** **VARIABILITY OF GAS-PARTICLE PARTITIONING OF POLYCYCLIC AROMATIC HYDROCARBONS IN A PILOT AREA OF VOJVODINA**
Mirjana VOJINOVIĆ MILORADOV, Jelena RADONIĆ, Maja TURK SEKULIĆ, Jelena KIURSKI, Maja DJOGO
- 53-29. **ROMANIA** **SNAIL MEAT, ROLE AND PLACE IN HUMANS DIET**
Dana Carolina CRISAN, Ioan DANCIU
- 53-30. **SERBIA** **ADVANTAGE OF THE SUBSTITUTION ETHYLMECAPTAN, COMPOUND FOR ODORIZATION NATURAL GAS, WITH TETRAHYDROTHIOPHEN**
Zoran ČEPIĆ, Jova JURIĆ, Mirjana VOJINOVIĆ MILORADOV
- 53-31. **SERBIA** **QUANTITY AND RECYCLABILITY OF Fe - METALS AT THE END-OF-LIFE VEHICLES IN REPUBLIC OF SERBIA**
Milan PAVLOVIĆ, Nikola KARANOVIĆ, Zoran ČEPIĆ, Aleksandar PAVLOVIĆ
- 53-32. **ROMANIA** **IMPLEMENTATION VERIFICATION REQUIRED EQUIPMENT TO COMBAT PESTS AND DISEASES IN ROMANIA IN ORDER TO ELIMINATE ENVIRONMENTAL CONTAMINATION WITH TOXIC SUBSTANCES**
S.T. BUNGESCU, W. STAHLI, V. VLADUT, S.S. BIRIS, M.E. NAGY, T. IANCU
- 53-33. **HUNGARY** **EXAMINATION OF BLACK LOCUST (*Robinia pseudoacacia* L.) AFFORESTATIONS IN BÁCS-KISKUN COUNTY**
Tamás BARNA, Gábor SZULCSÁN
- 53-34. **ROMANIA** **FROM THE RETEZAT NATIONAL PARK TO EUROPE'S "YELLOWSTONE" - SEEDS FOR THOUGHTS FOR THE ESTABLISHMENT AND EFFICIENT MANAGEMENT OF EUROPE'S LARGEST PROTECTED AREA COVERING THE SOUTHERN AND WESTERN CARPATHIANS IN ROMANIA AND SERBIA**
Erika STANCIU



SECTION 4. USES OF NATURAL RESOURCES IN REGIONS, MINING, ENERGY CONSERVATION AND PLANNING, INCLUDING AGRICULTURE

- focusing on general fields of industry, mining, agriculture, forestry, botany and horticulture, hydrology, biotechnology, material and energetically resources, including energy conservation and planning and alternate energy development, in multidisciplinary studies;

MODERATORS:



ROMANIA
Gallia BUTNARU
“BANATUL” UNIVERSITY
TIMISOARA



HUNGARY
Tamás BARNA
KEFAG Zrt.
Kecskemét



SERBIA
Radovan SAVIĆ
UNIVERSITY of NOVI SAD, FACULTY of
AGRICULTURE, NOVI SAD

PROGRAM SCHEDULE:

Faculty of Engineering – Hunedoara
Amphitheatre # 3 – Group B, Floor 2
Presentations and debates by sections

Faculty of Engineering – Hunedoara
Halls # 3-4 – Group B, Floor 2
Presentations and debates by posters

1ST DAY, Thursday, 23rd April, 2009
12.30 – 14.00 and 16.00 – 19.00

PROGRAM of PRESENTED PAPERS (oral presentations and posters):

No. crt.	Representing the Country:	TITLE OF PRESENTED PAPERS Authors
S4-01.	ROMANIA	BIOMASS A REGENERATING SOURCE OF THERMAL ENERGY FOR DRYING INSTALLATIONS Murad EROL, Victor-Viorel SAFTA, Georgeta HARAGA
S4-02.	HUNGARY	ANTIMICROBIAL AND ANTIOXIDANT POTENTIAL OF WASTE PRODUCTS REMAINING AFTER JUICE PRESSING Judit KRISCH, László GALGÓCZY, Tamás PAPP, Csaba VÁGVÖLGYI
S4-03.	SERBIA	MAPPING OF RISKS ON THE MAIN ROAD NETWORK OF SERBIA Krsto LIPOVAC, Dragan JOVANOVIĆ, Svetlana BAŠIĆ
S4-04.	SERBIA	UTILIZATION OF WASTE MATERIALS FROM BIOMASS AS ENERGY-GENERATED PRODUCT IN TECHNOLOGICAL PROCESS Zoran ĐUKIĆ, Srđan KOVAČEVIĆ, Dragan ADAMOVIĆ, Nemanja STANISAVLJEVIĆ
S4-05.	SERBIA	THREATS IN TRAFFIC FOR THE YOUNG PEOPLE IN THE TERRITORY OF SERBIA Dragan JOVANOVIĆ, Svetlana BAŠIĆ

- 54-06. **SERBIA** **DETERMINING THE FLOW OF GOODS WITH THE GOAL OF INCREASE OF EFFECTIVENESS IN CARGO TRANSPORTATION IN THE RIVER-SEA DIRECTION**
Vladimir ŠKILJAICA, Todor BAČKALIĆ, Ivan ŠKILJAICA
- 54-07. **ROMANIA** **VACUUM IMPREGNATION PRETREATMENT OF FRESH CUT VEGETABLE**
Claudiu URSACHI, Rodica SEGAL, Claudia MURESAN
- 54-08. **ROMANIA** **ENVIRONMENT ECOLOGICAL PROCESS IN HUNEDOARA AREA THROUGH REINSERTION IN ECONOMIC CIRCUIT OF SCRAP AND PULVEROUS WASTE**
Teodor HEPUȚ, Ana SOCALICI, Erika ARDELEAN, Marius ARDELEAN
- 54-09. **ROMANIA** **POSSIBILITY TO RECYCLING OF DEFERRIZED STEELSHOP SLAGS IN AGRICULTURE**
Ana SOCALICI, Erika ARDELEAN, Marius ARDELEAN, Teodor HEPUȚ
- 54-10. **ROMANIA** **STUDIES REGARDING OF SIDERITIC RESIDUE UTILIZATION FOR CEMENT PRODUCTION**
Marius ARDELEAN, Erika ARDELEAN, Teodor HEPUȚ, Ana SOCALICI, Laura BENEĂ
- 54-11. **ROMANIA** **RESEARCHES CONCERNING TO THE POSSIBILITY OF USE THE SIDERITIC RESIDUE FOR PRODUCTION OF CLINKER**
Erika ARDELEAN, Marius ARDELEAN, Teodor HEPUȚ, Ana SOCALICI, Laura BENEĂ
- 54-12. **ROMANIA** **THE IMPORTANCE OF NON-CONVENTIONAL BIOFUEL UTILIZATION FOR POLLUANT EMISSIONS REDUCTION**
Arina NEGOIȚESCU, Adriana TOKAR, Daniel OSTOIA
- 54-13. **ROMANIA** **RESEARCH ON THE RELIABILITY MODELING OF HYDRO MECHANICAL SYSTEMS**
Cristina HORA, Simona DZIȚAC
- 54-14. **ROMANIA** **FUZZY SIMULATION IN RELIABILITY ANALYSIS**
Simona DZIȚAC, Cristina HORA
- 54-15. **SERBIA** **VARIABILITY OF GAS-PARTICLE PARTITIONING OF POLYCYCLIC AROMATIC HYDROCARBONS IN A PILOT AREA OF VOJVODINA**
Mirjana VOJINOVIĆ MILORADOV, Jelena RADONIĆ, Maja TURK SEKULIĆ, Jelena KIURSKI, Maja DŽOGO
- 54-16. **SERBIA** **ADVANTAGE OF THE SUBSTITUTION ETHYLMERCAPTAN, COMPOUND FOR ODORIZATION NATURAL GAS, WITH TETRAHYDROTHIOPHEN**
Zoran ČEPIĆ, Jova JURIĆ, Mirjana VOJINOVIĆ MILORADOV
- 54-17. **SERBIA** **QUANTITY AND RECYCLABILITY OF Fe - METALS AT THE END-OF-LIFE VEHICLES IN REPUBLIC OF SERBIA**
Milan PAVLOVIĆ, Nikola KARANOVIĆ, Zoran ČEPIĆ, Aleksandar PAVLOVIĆ
- 54-18. **ROMANIA** **SLAG – UTILIZATION IN ROAD CONSTRUCTION – EXPERIENCE AND SOLUTIONS**
Rodica ISTRATE, Adrian CALIMENTE
- 54-19. **SERBIA** **UTILIZATION OF WASTE MATERIALS FROM BIOMASS AS ENERGY-GENERATED PRODUCT IN TECHNOLOGICAL PROCESS**
Zoran ĐUKIĆ, Srđan KOVAČEVIĆ, Dragan ADAMOVIĆ, Nemanja STANISAVLJEVIĆ
- 54-20. **HUNGARY** **ENERGY STORAGE IN SOLAR COLLECTOR SYSTEMS WITH PCM SOLAR TANK**
István Péter SZABÓ



SECTION 5. APPLIED SCIENCES AND TECHNOLOGIES – MANUFACTURING AND RESEARCH IN ENGINEERING FIELDS

- focusing on engineering science and practice, covering the full spectrum of engineering theory and practice, including studies involving the application of physical and mathematical techniques to fundamental investigations and emerging areas within the engineering fields, incoming with information from a wide variety of applied science specialties in multidisciplinary studies;

SUBSECTION 5a. APPLIED SCIENCES AND TECHNOLOGIES – MANUFACTURING AND RESEARCH IN MECHANICAL ENGINEERING

SUBSECTION 5b. APPLIED SCIENCES AND TECHNOLOGIES – MANUFACTURING AND RESEARCH IN INFORMATICS & ELECTRICAL ENGINEERING

SUBSECTION 5b. APPLIED SCIENCES AND TECHNOLOGIES – MANUFACTURING AND RESEARCH IN MATERIAL SCIENCE ENGINEERING

MODERATORS:



ROMANIA

Carmen Inge ALIC
UNIVERSITY POLITEHNICA
TIMISOARA, FACULTY of
ENGINEERING – HUNEDOARA



HUNGARY

Cecilia HODÚR
UNIVERSITY of SZEGED,
FACULTY of ENGINEERING,
SZEGED



SERBIA

Siniša KUZMANOVIĆ
UNIVERSITY of NOVI SAD,
FACULTY of TECHNICAL SCIENCES,
NOVI SAD

PROGRAM SCHEDULE:

Faculty of Engineering – Hunedoara
Amphitheatre # 1 – Group F

Presentations and debates by sections

1ST DAY, Thursday, 23rd April, 2009

12.30 – 14.00 and 16.00 – 19.00

2ND DAY, Friday, 24th April, 2009

10.00 – 12.00

Faculty of Engineering – Hunedoara
Central Hall of Faculty – Group F

Presentations and debates by posters

1ST DAY, Thursday, 23rd April, 2009

12.30 – 14.00 and 16.00 – 19.00

2ND DAY, Friday, 24th April, 2009

10.00 – 12.00

PROGRAM of PRESENTED PAPERS (oral presentations and posters):

No. crt.	Representing the Country:	TITLE OF PRESENTED PAPERS <i>Authors</i>
55-01.	MONTENEGRO	CONTRIBUTION TO REDUCE DEFECTS IN PRODUCTION OF PLAIN BEARINGS <i>Darko SKUPNJAK</i>
55-02.	HUNGARY	SLIDING MODE CONTROL OF A ROBOT ARM DRIVEN BY PNEUMATIC MUSCLE ACTUATORS <i>Péter TOMAN, János GYEVIKI, Tamás ENDRŐDY, József SÁROSI, Antal VÉHA, Zénó SZABÓ</i>
55-03.	HUNGARY	DESIGN AND FABRICATION OF A TEST-BED AIMED FOR EXPERIMENT WITH PNEUMATIC ARTIFICIAL MUSCLE <i>Péter TOMAN, János GYEVIKI, Tamás ENDRŐDY, József SÁROSI, Antal VÉHA</i>
55-04.	HUNGARY	EXAMINATION OF THE EFFECT OF MICROWAVE HEATING ON THE BIODEGRADABLE AND SOLUBLE FRACTION OF ORGANIC MATTER OF SLUDGE <i>Sándor BESZÉDES, Zsuzsanna LÁSZLÓ, Gábor SZABÓ, Cecilia HODÚR</i>
55-05.	HUNGARY	THE EFFECT OF MICROPARTICLES FOR THE MEMBRANE RESISTANCE <i>Angéla SZÉP, Szabolcs KERTÉSZ, Zsuzsanna LÁSZLÓ, Cecilia HODÚR</i>
55-06.	ROMANIA	CALCULUS METHOD OF THE TECHNOLOGICAL LOADS TRANSMITTED TO THE EXTRACTING TOWERS WITH THE HOISTING INSTALLATIONS OF WINDING MACHINES WITH MULTICABLE DRIVING WHEELS ON <i>Vilhelm ITU, Iosif DUMITRESCU, Bogdan-Zeno COZMA</i>
55-07.	ROMANIA	ELEMENTS OF THE GEOMETRIC CALCULATION FOR STRAIGHT-TOOTHED CYLINDRICAL GEARS IN INCHES AND IN THE METRIC SYSTEM <i>Vasile ZAMFIR, Gheorghe Bogdan URDEA</i>
55-08.	SERBIA	MODIFIED DIAGRAM FOR STEAM-WATER INJECTOR MIXING CHAMBER <i>Maša BUKUROV, Slobodan TAŠIN, Siniša BIKIĆ</i>
55-09.	SERBIA	ANALYSIS OF THE MOST COMMON FAILURES OF GEARS IN UNIVERSAL GEAR REDUCERS <i>Milan RACKOV, Siniša KUZMANOVIĆ</i>
55-10.	ROMANIA	GENERAL CONCEPTS OF MAINTENANCE <i>Natalia-Cernica BUZGĂU</i>
55-11.	ROMANIA	A STUDY OF THE BOCKER'S OBSERVER IMPLEMENTATION TO ESTIMATE THE INDUCED POWER WITHIN A CAST-IRON CONVEYANCE AND DOSAGE ELECTROMAGNETIC PUMP <i>Adrian DĂNILĂ</i>
55-12.	ROMANIA	WORKING TECHNOLOGY FOR CNC MACHINES <i>Doina MORTOIU, Lucian GAL</i>
55-13.	BOSNIA & HERZEGOVINA	ADAPTIVE GENETIC FUZZY SYSTEMS IN INDUSTRY: CURRENT FRAMEWORK AND NEW TRENDS <i>Tihomir LATINOVIC, Miroslav ROGIC, Milosav DJURDJEVIC</i>

55-14.	SERBIA	POSSIBILITY OF APPLYING HYDRODYNAMIC COUPLERS FOR DRIVING BELT CONVEYORS <i>Svetislav Lj. MARKOVIĆ</i>
55-15.	ROMANIA	WITH SPIDER8 ON RAILS <i>Tiberiu Ștefan MĂNESCU, Ion SIMION, Nicușor Laurențiu ZAHARIA</i>
55-16.	HUNGARY	EXAMINATIN OF REFRIGERATOR ENGINES WITH THE METHOD OF VIBRATION DIAGNOSIS <i>Lajos TÓTH</i>
55-17.	ROMANIA	ON THE ENERGETIC CHARACTERISTICS OF THE SHOCK INSULATORS OF RAILWAY VEHICLES <i>Ion COPACI</i>
55-18.	ROMANIA	ON THE STATIC AND DYNAMIC CHARACTERISTICS OF THE SHOCK INSULATORS EQUIPPING RAILWAY VEHICLES <i>Aurelia TĂNĂSOIU, Ion COPACI</i>
55-19.	ROMANIA	THE INFLUENCE OF ELASTIC SYSTEMS ON THE TRAVEL SAFETY OF RAILWAY VEHICLES <i>Aurelia TĂNĂSOIU</i>
55-20.	ROMANIA	ON THE DYNAMIC CHARACTERISTICS OF THE DAMPENER WITH ELASTIC RUBBER ELEMENTS USED ON A SUBURBAN TRANSPORT VEHICLE (EGYPT) <i>Mihai SĂRB, Ion COPACI, Aurelia TĂNĂSOIU</i>
55-21.	BOSNIA & HERZEGOVINA	A CONSTRUCTIVE SOLUTION FOR A SOLAR COLLECTOR WITH ALUMINUM ABSORBER <i>Mirko DOBRNJAC, Tihomir LATINOVIĆ</i>
55-22.	ROMANIA	THE INFLUENCE OF LOW TEMPERATURES ON THE MECHANICAL CHARACTERISTICS OF THE 34MoCrNi15X-RS STEEL UNDERGOING SHOCK-BENDING, DEPENDING ON THE SAMPLING POSITION <i>Francisc WEBER</i>
55-23.	ROMANIA	THE TORSION MECHANICAL CHARACTERISTICS UNDER LOW TEMPERATURE OF 34MoCrNi16X STEEL <i>Francisc WEBER</i>
55-24.	ROMANIA	DYNAMICS OF WORKING PROCESS OF FLAT SIEVES <i>Radu ILEA</i>
55-25.	ROMANIA	THE ATTEMPT TO TRACTION OF THE INSULATION OF THE CABLE LAY-UPS FROM CARS <i>Teodor VASIU, Adina BUDIUL-BERGHIAN</i>
55-26.	ROMANIA	SOLUTIONS FOR BREED THE AVAILABILITY OF THE PARALLEL GANG SHEARS ASSIGNED FOR CUTTING THE METALLURGICAL PRODUCTS <i>Adina BUDIUL BERGHIAN, Teodor VASIU</i>
55-27.	ROMANIA	INTERNET USING FOR INTERACTIVE AND COLLABORATIVE LEARNING IN MECHANICAL ENGINEERING <i>Carmen Inge ALIC, Cristina MIKLOS, Imre Zsolt MIKLOS</i>
55-28.	ROMANIA	INTEGRATION OF INTERACTIVE MULTIMEDIA LEARNING SOFTWARE INTO MECHANICAL ENGINEERING COURSE'S <i>Carmen Inge ALIC, Imre Zsolt MIKLOS, Cristina MIKLOS</i>

55-29.	ROMANIA	EVALUATION OF THE SMOKE DEGREE AND CO₂ EMISSION IN CORRELATION WITH THE DISTANCE COVERED BY ROAD VEHICLES <i>Gelu PĂDURE, Virgiliu Dan NEGREA</i>
55-30.	ROMANIA	AN EXPERIMENTAL ANALYSIS ABOUT THE FRACTURE OF THE WHEELSET-AXLES OF THE 5100 KW ELECTRIC LOCOMOTIVE <i>Eugen GHITA, Lucia VILCEANU, Ramon BALOGH, Monica DOBRA</i>
55-31.	ROMANIA	ASPECTS REGARDING THE LIFE-TIME OF WIRES BELONGING TO A STEEL WIRE ROPE <i>Lucia VILCEANU, Eugen GHITA, Vasile PUTAN</i>
55-32.	ROMANIA	CONSIDERATIONS REGARDING THE TESTING OF ELECTRICAL APPARATUS WITH THE TYPE OF PROTECTION “INCREASED SAFETY” <i>Martin FRIEDMANN, Lucian MOLDOVAN</i>
55-33.	ROMANIA	THEORETICAL AND EXPERIMENTAL ASPECTS REGARDING THE SEALED EFFICIENCY OF DIESEL ENGINES COMBUSTION CHAMBERS <i>Adriana TOKAR, Daniel OSTOIA, Arina NEGOIȚESCU</i>
55-34.	ROMANIA	EXPERIMENTAL DETERMINATION OF THE MECHANICAL STRESSES ON THE WARM ROLLING CYLINDERS <i>Camelia PINCA BRETOTEAN, Gelu Ovidiu TIRIAN</i>
55-35.	ROMANIA	THE USAGE OF TYPE SILIUMINIUM ALLOYS WITH MAGNESIUM FOR CASTING A VERY LARGE USED PIECES <i>Remus BOBOESCU, Ion SPOREA, Ilarie BORDEAȘU, Adriana TOKAR, Victor BUJOR</i>
55-36.	ROMANIA	STUDIES AND TESTS CONCERNING SMELTING CASTING ALLOY OF UNIVERSAL ALUMINIUM <i>Adriana TOKAR, Ion SPOREA, Arina NEGOIȚESCU</i>
55-37.	ROMANIA	MEASURING THE PRESSION FIELD IN AN INVERTED AIR FILTER <i>Sorin RAȚIU, Corneliu BIRTOK-BĂNEASĂ, Liviu MIHON</i>
55-38.	ROMANIA	LABORATORY MEASUREMENTS OF LIGHT-DUTY VEHICLE POLLUTION AND FUEL CONSUMPTION <i>Liviu MIHON, Daniel OSTOIA, Carmen Inge ALIC, Sorin RAȚIU</i>
55-39.	ROMANIA	MODALITIES OF REDUCING THE LEAKAGE FLOW IN MECHANICAL SEALING <i>Veronica ARGESANU, Mihaela JULA, Ioan LAZA</i>
55-40.	ROMANIA	THERMO ELASTIC INSTABILITY WITHIN A CLASS IV FRICITION JOINT <i>Veronica ARGESANU, Mihaela JULA, Ioan LAZA</i>
55-41.	ROMANIA	STUDY REGARDING MASS REPARTITION TO ROAD VEHICLE WITH MULTIPLE DESTINATIONS <i>Ioan LAZA, Daniel OSTOIA, Lucian MOLDOVAN</i>
55-42.	ROMANIA	METALLOGRAFIC ASPECTS OF THE ELEMENTS MAKING UP A STEAM BOILER <i>Amalia Ana DASCĂL</i>
55-43.	ROMANIA	REGISTRATION AND PROCESSING OF FUNCTIONAL PARAMETERS VALUES FOR INTERNAL COMBUSTION ENGINES <i>Sorin RAȚIU, Ștefan MAKSAY, Ana JOSAN</i>
55-44.	ROMANIA	STUDY ON THE VARIATION OF CONVENTIONAL FLOW LIMIT DEPENDING ON THE MAIN ALLOY ELEMENTS FOR THERMORESISTANT STEEL <i>Amalia Ana DASCĂL</i>

- 55- ROMANIA APPLICATION OF THE SQUIRREL CAGE ASYNCHRONOUS MACHINE WORKING
45. AS SINGLE PHASE GENERATOR IN MICROHYDRO POWER PLANTS
Sorin Ioan DEACONU, Marcel TOPOR, Gabriel Nicolae POPA, Diana BISTRIAN
- 55- ROMANIA YIELD FACTORS OF A PHOTOVOLTAIC PLANT
46. GERMANY
Cristian P. CHIONCEL, Dieter KOHAKE, Ladislau AUGUSTINOV, Petru CHIONCEL, Gelu Ovidiu TIRIAN
- 55- ROMANIA PERFORMANCE RATIO OF A PHOTOVOLTAIC PLANT
47. Cristian P. CHIONCEL, Ladislau AUGUSTINOV, Petru CHIONCEL,
Nicoleta GILLICH, Gelu Ovidiu TIRIAN
- 55- ROMANIA PREDICTION OF THE SIGNALS USING THE NEURONAL NETWORKS
48. Gelu Ovidiu TIRIAN, Stela RUSU-ANGHEL, Camelia PINCA-BRETOTEAN
- 55- GERMANY ERROR HANDLING AND MESSAGES WITH APPLICATION SERVER ABAP
49. ROMANIA
Ana Daniela CRISTEA, Adela Diana BERDIE
- 55- ROMANIA CONTRIBUTIONS TO THE IMPLEMENTATION OF THE TELEMETRIC
50. PROGRAMMABLE AUTOMATS BY RTU TYPE FOR AUTOMATION, MONITORING
AND CONTROL INSTALLATIONS
Constantin OPREA, Cristian BĂRZ, Alexandru SEREGHI
- 55- GERMANY WORKING WITH ABAP PERSISTENT DATA
51. ROMANIA
Ana Daniela CRISTEA, Adela Diana BERDIE, Mihaela OSACI
- 55- ROMANIA CONSIDERATIONS ABOUT NEURO-FUZZY ADAPTIVE SYSTEMS
52. Gelu Ovidiu TIRIAN
- 55- ROMANIA A STUDY ABOUT A RESISTIVE STEPPED TRANSDUCER USED FOR WATER LEVEL
53. MEASUREMENT
Gabriel Nicolae POPA, Iosif POPA, Sorin Ioan DEACONU, Corina Daniela CUNȚAN
- 55- ROMANIA DISCSP-NETLOGO-EDUCATIONAL SOFTWARE MEANT FOR THE
54. IMPLEMENTATION AND EVALUATION OF THE ASYNCHRONOUS SEARCH
TECHNIQUES IN NETLOGO
Ionel MUSCALAGIU, Diana MUSCALAGIU, Teodora PETRAS, Manuela PĂNOIU
- 55- ROMANIA EDUCATIONAL SOFTWARE FOR ANALYSIS OF PARALLEL ALGORITHMS USING
55. PRAM MODEL
Alexandru-Ștefan OPREAN, Tatiana-Elena DUȚĂ, Manuela PĂNOIU
- 55- ROMANIA EDUCATIONAL SOFTWARE METHODS AND STRATEGIES FOR DESIGNING
56. ALGORITHMS BACKTRACKING, GREEDY METHOD AND DYNAMIC
PROGRAMMING
Tatiana-Elena DUȚĂ, Alexandru-Ștefan OPREAN, Manuela PĂNOIU
- 55- ROMANIA EDUCATIONAL SOFTWARE FOR THE PRESENTATION OF HYPERBOLOID
57. Anca IORDAN, Manuela PĂNOIU
- 55- ROMANIA DESIGN OF SEQUENCE DIAGRAMS FOR IMPLEMENTATION OF A DYNAMICAL
58. SOFTWARE FOR DOING GEOMETRICAL CONSTRUCTIONS
Anca IORDAN, Manuela PĂNOIU
- 55- ROMANIA STUDY OF LOW-SIGNAL AMPLIFIERS WITH FIELD-EFFECT TRANSISTORS
59. Corina Maria DINIȘ, Corina Daniela CUNȚAN, Gabriel Nicolae POPA,
Angela IAGĂR

- 55-60. **ROMANIA** **SIMULATION OF SOME FAULTS IN THREE-PHASE ELECTRIC SYSTEMS USING THE PSCAD-EMTDC PROGRAM**
Angela IAGĂR, Corina Maria DINIȘ, Gabriel Nicolae POPA, Ioan BACIU
- 55-61. **ROMANIA** **COMPUTER SIMULATION OF THE FUNCTIONING OF THE OPERATIONAL AMPLIFIER INVERSE TYPE**
Cornelia ANGHEL
- 55-62. **ROMANIA** **EXPERIMENTAL RESEARCH FOR IDENTIFYING INDUSTRIAL PROCESSES BY STATISTICAL METHODS**
Stela RUSU-ANGHEL, Gelu Ovidiu TIRIAN
- 55-63. **ROMANIA** **AUTOMATIC DETERMINATION OF THE MINERAL COMPOSITION OF THE PORTLAND CEMENT CLINKER**
Stela RUSU-ANGHEL
- 55-64. **ROMANIA** **MODELING OF THE ENERGY ENTITIES FUNCTIONING USING THE MARKOV CHAINS METHOD**
Raluca ROB, Anca IORDAN, Caius PĂNOIU, Manuela PĂNOIU
- 55-65. **ROMANIA** **DETERMINATION OF THE CURRENT HARMONICS INTRODUCED IN THE GRID BY THE D.C.-SUPPLIED CONSUMERS**
Ioan BACIU, Corina Daniela CUNȚAN, Angela IAGĂR
- 55-66. **ROMANIA** **ANALYSIS OF A DOUBLE-WAVE ACCURACY RECTIFIER'S OPERATION WITH OPERATIONAL AMPLIFIERS**
Corina Daniela CUNȚAN, Ioan BACIU, Caius PĂNOIU, Corina DINIȘ
- 55-67. **ROMANIA** **VIBRATIONS INFLUENCE OVER THE METALLIC ALLOYS CRYSTALLIZATION**
Crenguța Manuela PÎRVULESCU, Constantin BRATU, Ioan MĂRGINEAN, Bogdan Alexandru VERDEȘ, Adrian S. COCOLAȘ
- 55-68. **ROMANIA** **FEW THEORETIC ELEMENTARY NOTIONS REQUIRED FOR CHARACTERIZATION OF METAL MELT AND APPRECIATION OF BEHAVIOR AT INTERFACE DURING CASTING**
Ioan MĂRGINEAN, Bogdan Alexandru VERDEȘ, Adrian S. COCOLAȘ, Crenguța Manuela PÎRVULESCU, SUSU Cătălin
- 55-69. **HUNGARY FINLAND** **STATISTICAL EXPERIMENTAL DESIGN OF THE REMOVAL OF DIFFERENT COMPOUNDS FROM SYNTHETIC WASTEWATER BY MICELLAR-ENHANCED ULTRAFILTRATION**
Szabolcs KERTÉSZ, Junkal LANDABURU-AGUIRRE, Veronica GARCIA, Cecilia HODŰR, Eva PONGRÁCZ, Riitta L. KEISKI
- 55-70. **ROMANIA** **FATIGUE TESTS AT HYBRID ALUMINUM ALLOY JOINTS**
Dinu DRĂGAN, Mircea Cristian ARNĂUTU, Ion SIMION, Nicușor Laurențiu ZAHARIA
- 55-71. **ROMANIA** **ROTORS CASTING FOR AVIATION TURBOCOMPRESSORS**
Ion CHIRA, Bogdan Alexandru VERDEȘ
- 55-72. **ROMANIA** **THE PROMOTING, THE PARTNERSHIP AND REGIONAL COLLABORATION OF FOUNDRIES**
Ion CHIRA, Bogdan Alexandru VERDEȘ
- 55-73. **ROMANIA** **ANALYSIS OF THE TECHNOLOGY OF STEEL ELABORATION T 35 Mn 14 INTENDED FOR CASTING THE PIECES**
Ana JOSAN, Vasile PUȚAN, Sorin RAȚIU

- 55- ROMANIA MATHEMATICAL MODELLING OF THERMAL STRATIFICATION PHENOMENA IN
74. STEEL LADLES
Vasile PUȚAN, Ana JOSAN, Lucia VÎLCEANU
- 55- ROMANIA DETERMINATION OF TEMPERATURE VARIATION IN THE METALLIC WALL
75. FORMS AT THE STATIC CASTING OF BIMETALLIC MILLING ROLLS
Gabriela MIHUȚ, Erika POPA
- 55- ROMANIA SOLIDIFICATION AND COOLING PHENOMENON IN THE AREA OF STEEL
76. CONTINUOUS CASTING
Erika Monika POPA, Imre KISS, Gabriela MIHUȚ
- 55- ROMANIA MULTIDISCIPLINARY APPROACHES IN THE FIELD OF THE CAST IRON ROLLING
77. ROLLS MANUFACTURING
Imre KISS, Stefan MAKSAJ, Vasile ALEXA
- 55- ROMANIA STUDY OF THE MACHINING ERROR DUE TO CONTACT DEFORMATION OF
78. WORKPIECE-FIXTURE SYSTEM
Vasile George CIOATĂ, Imre KISS
- 55- ROMANIA MULTIDISCIPLINARY RESEARCH AREAS FOR INCREASING THE ROLLING-MILL
79. ROLLS QUALITY
Imre KISS, Vasile George CIOATĂ
- 55- FRANCE ADVANCED TECHNIQUES IN ELECTRON SPECTROSCOPY FOR SURFACE AND
80. INTERFACE STUDIES
Bernard GRUZZA
- 55- ROMANIA EXPERIMENTAL RESEARCH IN PILOT PHASES REGARDING THE SEMISOLID
81. STATE PROCESSING OF STEEL
Daniela-Cătălina MILOSTEAN, Mihaela-Corina FLORI
- 55- ROMANIA VIEWING PERIODICAL SYSTEM WITH THE HELP OF MICROSOFT ACCESS DATA
82. BASE
Sorina ȘERBAN
- 55- ROMANIA INFLUENCE OF THERMAL REGIME IN THE CALCULUS OF THE THERMAL
83. STRESSES UPON WARM CYLINDERS
Camelia PINCA BRETOTEAN





SECTION 6.
METHODS AND TECHNIQUES, INSTRUMENTS
AND SUPPLIES IN THE NATURAL SCIENCE FIELDS

- focusing on the theory and practice of chemistry and physics, including mathematics, covering the full spectrum of natural sciences in multidisciplinary studies;

SUBSECTION 6a.
METHODS AND TECHNIQUES, INSTRUMENTS AND SUPPLIES
IN THE FIELDS OF CHEMISTRY AND PHYSICS

SUBSECTION 6b.
METHODS AND TECHNIQUES, INSTRUMENTS AND SUPPLIES
IN THE FIELD OF MATHEMATICS

MODERATORS:



ROMANIA
Georgeta Maria SIMU
INSTITUTE of CHEMISTRY
TIMIȘOARA



HUNGARY
András ERDŐHELYI
UNIVERSITY of SZEGED, INSTITUTE of
SOLID STATE and RADIOCHEMISTRY



SERBIA
Radmila MARKOVIĆ
MINING and METALLURGY
INSTITUTE, BOR

PROGRAM SCHEDULE:

Faculty of Engineering – Hunedoara

Amphitheatre # 2 – Group B, Floor 2

Presentations and debates by sections

1ST DAY, Thursday, 23rd April, 2009

12.30 – 14.00 and 16.00 – 19.00

2ND DAY, Friday, 24th April, 2009

10.00 – 12.00

Faculty of Engineering – Hunedoara

Halls # 1- 2 – Group B, Floor 2

Presentations and debates by posters

1ST DAY, Thursday, 23rd April, 2009

12.30 – 14.00 and 16.00 – 19.00

2ND DAY, Friday, 24th April, 2009

10.00 – 12.00

PROGRAM of PRESENTED PAPERS (oral presentations and posters):

No. crt.	Representing the Country:	TITLE OF PRESENTED PAPERS <i>Authors</i>
56-01.	SERBIA	INFLUENCE OF SOME ELEMENTS FROM ANODE COPPER ON CATHODE COPPER QUALITY <i>Branislav ČADJENOVIĆ, Radmila MARKOVIĆ, Aleksandra MILOSAVLJEVIĆ</i>
56-02.	SERBIA GERMANY	ELECTROCHEMICAL BEHAVIOR OF COPPER WITH NON-STANDARD IMPURITIES CONTENT <i>Radmila MARKOVIĆ, Bernd FRIEDRICH, Jasmina STEVANOVIĆ, Bore JEGDIĆ</i>
56-03.	ROMANIA	SYNTHESIS AND CHARACTERIZATION OF A CATALYST FORMED BY DIRECT INCORPORATION OF SOME HETEROPOLYACIDS INTO MESOPOROUS MATERIALS <i>Alexandru POPA, Viorel SASCA, Cătălin IANASI, Orsina VERDES, Livia AVRAM</i>
56-04.	ROMANIA	THE HEAVY METALS MONITORING IN CANNED VEGETABLES MIX <i>I. DAVID, F. BERBENTEA, M. ȘTEFANUȚ, L. GEORGESCU, G. BUJANCĂ, T. TRĂȘCĂ, M. DANCI, Oana DANCI</i>
56-05.	ROMANIA	BIOCOMPATIBLE MATERIALS REALIZED BY PLASMA THERMAL SPRAYING OF HYDROXYAPATITE ON METALLIC SUPPORTS <i>Radu ROȘU, Doru Romulus PASCU, Ioana SAVIN</i>
56-06.	ROMANIA	THERMAL SHOCK BEHAVIOR OF THE COATS DEPOSITED BY PLASMA SPRAYING OF THE TiO₂ <i>Maria Laura BENEĂ</i>
56-07.	HUNGARY	PREPARATION AND CHARACTERIZATION OF GOLD NANOCCLUSERS WITH COADSORBED METALS <i>János KISS, András BERKÓ, László ÓVÁRI, László BUGYI, Zsolt MAJZIK, Nándor BALÁZS</i>
56-08.	HUNGARY ROMANIA	POSSIBLE USE OF METAL COMPLEXES OF POLYAMINOPOLYPHOSPHONIC ACIDS <i>Imre LABÁDI, Károly MOGYORÓSI, Ecaterina PRINCZ</i>
56-09.	HUNGARY	DEGRADATION OF PURE AND WASTE PVC AND PET IN THE PRESENCE OF MODIFIED POROUS CATALYSTS <i>János HALÁSZ, Kinga VÓNEKI, Judit KRAJKÓ</i>
56-10.	HUNGARY	STEAM REFORMING OF ETHANOL ON ALUMINA SUPPORTED NOBLE METAL CATALYSTS <i>Márta DÖMÖK, Kornélia BAÁN, István SARUSI, Albert OSZKÓ, András ERDŐHELYI</i>
56-11.	HUNGARY	DIODE LASER BASED PHOTOACOUSTIC INSTRUMENT FOR AMMONIA CONCENTRATION AND FLUX MONITORING <i>A. POGÁNY, Á. MOHÁCSI, Z. GALBÁCS, T. WEIDINGER, L. HORVÁTH, A. VARGA, Z. BOZÓKI, G. SZABÓ</i>
56-12.	HUNGARY	DEMONSTRATION OF THE APPLICABILITY OF NOVEL PHOTOACOUSTIC AEROSOL MONITOR FOR OPTICAL ABSORPTION COEFFICIENT DETERMINATION – LABORATORY AND FIELD TEST <i>T. AJTAI, M. SCHNAITER, C. LINKE, M. VRAGEL, Ágnes FILEP, Lajos FÖDI, Gábor MOTIKA, Z. BOZÓKI, G. SZABÓ</i>

- 56-13. **HUNGARY** **ENVIRONMENTAL IMPACTS OF NITRATE AND NITRITE**
Gábor NAGY, Zoltán GALBÁCS
- 56-14. **HUNGARY** **NITRATE IN TOBACCO - ANOTHER SOURCE OF DANGER OF SMOKING**
Gábor NAGY, Zoltán GALBÁCS
- 56-15. **HUNGARY** **ROCK EVAL PYROLYSIS AS A TOOL FOR CHARACTERIZATION OF ORGANIC MATTER IN SOIL SAMPLES**
Tünde NYILAS, Marianna IMRE
- 56-16. **HUNGARY** **SUPPORTING THE REASONABLE AGRICULTURAL PRODUCTION WITH A NEWLY FOUNDED ENVIRONMENTAL LABORATORY IN THE SOUTH EASTERN REGION OF HUNGARY**
Gábor NAGY, Tünde NYILAS, Szilvia ÖRDÖG, Anita VOLFFORD
- 56-17. **HUNGARY** **ARSENIC PROBLEM AND POSSIBLE SOLUTION FOR DRINKING WATER**
Tamás BUJDOSÓ, Ágnes PATZKÓ, Zoltán GALBÁCS, István LICSKÓ, Imre DÉKÁNY
- 56-18. **HUNGARY** **OXIDATIVE TREATMENT OF PHENOLIC WASTEWATERS: DETERMINATION OF THE EFFICIENCY OF FE-CONTAINING CATALYST**
Adrienn BANGÓ, János HALÁSZ
- 56-19. **ROMANIA** **THERMODYNAMIC STUDY OF A SYMMETRICAL DISAZO DIRECT DYE DERIVED FROM 4,4'-DIAMINO-BENZANILIDE ON MERCERIZED COTTON**
Georgeta Maria SIMU, Simona FUNAR-TIMOFEI, Gianina BALȘ
- 56-20. **ROMANIA** **INCLUSION COMPLEXES WITH A SYMMETRICAL DISAZO DYE WITH α - AND β -CYCLODEXTRINS**
Gianina BALȘ, Georgeta Maria SIMU
- 56-21. **ROMANIA** **OPTICAL STUDY OF STEEL SURFACES AFTER THERMOCHEMICAL TREATMENT**
Simion JITIAN
- 56-22. **ROMANIA** **DETERMINATION OF THE ROUGHNESS LEVELLING DEPTH FOR METALLIC SURFACES BY OPTICAL MEASUREMENTS BASED ON THE LIGHT REFLEXION**
Simion JITIAN
- 56-23. **ROMANIA** **DETERMINATION OF OPTICAL CONSTANTS OF POLYMER FILMS THROUGH REFLECTION**
Simion JITIAN
- 56-24. **ROMANIA** **A THREE DIMENSIONAL AXI-SYMMETRIC MODEL FOR THE BLOOD FLOW IN THIN VESSELS**
Sonia PETRILA, Balázs ALBERT
- 56-25. **ROMANIA** **MATHEMATICAL MODEL FOR THE BLOOD FLOW IN CAPILLARY VESSELS**
Sonia PETRILA, Balázs ALBERT
- 56-26. **ROMANIA** **CONSIDERATIONS UPON THE C_R^2 TRUNCATED EXPONENTIAL DISTRIBUTION**
Ștefan MAKSAÏ, Diana A. BISTRIAN
- 56-27. **ROMANIA** **ON H-TRICHOTOMY IN BANACH SPACES**
Codruța STOICA, Mihail MEGAN
- 56-28. **ROMANIA** **ASYMPTOTIC BEHAVIORS OF STOCHASTIC EVOLUTION COCYCLE**
Diana STOICA





- 56-29. **SERBIA** **SOME DISADVANTAGES OF STANDARD BUCKLING ANALYSIS COMPARING TO INCREMENTAL GEOMETRIC NONLINEAR ANALYSIS**
Ivana MATIJEVIĆ, Dušan KOVAČEVIĆ
- 56-30. **ROMANIA** **SOME GENERALISATION OF THE BARTLE, DUNFORD AND SCHWARTZ INTEGRABILITY MODEL**
Octavian LIPOVAN
- 56-31. **ROMANIA** **THE BENDING OF THE FINITE ELASTIC ROD ON ELASTIC FOUNDATION UNDER THE ACTION OF CONCENTRATED LOADS**
Wilhelm W. KECS
- 56-32. **SWITZERLAND** **FURTHER CONSIDERATIONS ON THE FORMAL VERIFICATION OF NUMBER**
ROMANIA **THEORETICAL ALGORITHMS**
Laura Ildikó KOVÁCS, Adalbert KOVÁCS
- 56-33. **ROMANIA** **CONSIDERATIONS ON THE CALCULUS ALGORITHM OF THE FLUID'S VELOCITY**
AUSTRIA **POTENTIAL THROUGH PROFILE GRIDS**
Adalbert KOVÁCS, Laura Ildikó KOVÁCS
- 56-34. **ROMANIA** **DENSITY OF POLYNOMIAL REPARTITIONS**
Stefan MAKŠAY, Diana STOICA
- 56-35. **ROMANIA** **NUMERICAL METHOD FOR SPATIAL STABILITY ANALYSIS OF A VORTEX**
STRUCTURE AT HIGH REYNOLDS NUMBERS
Diana A. BISTRIAN, Ștefan MAKŠAY
- 56-36. **ROMANIA** **BOUNDARY ADAPTED SPECTRAL APPROXIMATION FOR SPATIAL STABILITY OF**
BACHELOR VORTEX
Diana A. BISTRIAN, Ioana F. DRAGOMIRESCU





INFORMATIVE MEETING

- discussing the topics:

-  **REGIONAL INTEGRATION**, concerning the expanding of the application area for the transferable credit system between the specialized faculties and universities from HUNGARY, SERBIA and ROMANIA, educational and pedagogical issues common for this countries, as well as problems regarding the extending of connections between the institutions on educational matters, teaching and specializing processes and co-operation between professors and students.
-  **EXTEND AREA OF ISIRR**, discussing about the expanding possibilities of the ISIRR in BULGARIA and SLOVAKIA.
-  **ISIRR FOR ISI PROCEEDINGS APPLICATION**, discussing about the possibilities to accede into international databases for recognize the ISIRR as important Symposium in this area.
-  **THE 11th ISIRR**, organized in Szeged, HUNGARY, in preliminary discussions.

MODERATORS:



ROMANIA

Nicolae FARBAȘ
– head of ASSOCIATION for
MULTIDISCIPLINARY RESEARCH
of the WEST ZONE of ROMANIA
(ACM-V) – TIMIȘOARA



HUNGARY

Imre DEKÁNY
– president of HUNGARIAN
REGIONAL ACADEMY OF SCIENCES,
DEPARTMENT of COLLOID
CHEMISTRY, UNIVERSITY of SZEGED



SERBIA

Mirjana VOJINOVIC-
MILORADOV
– UNIVERSITY of NOVI SAD,
FACULTY of TECHNICAL
SCIENCES, NOVI SAD

HOSTS:



ROMANIA

Teodor HEPUȚ
– dean of the FACULTY of
ENGINEERING – HUNEDOARA
UNIVERSITY POLITEHNICA TIMIȘOARA



ROMANIA

Imre KISS
– scientific secretary of the ISIRR 2009,
FACULTY of ENGINEERING – HUNEDOARA,
UNIVERSITY POLITEHNICA TIMIȘOARA

PROGRAM SCHEDULE:

Faculty of Engineering – Hunedoara
in the Council Chamber of the Faculty of Engineering
2ND DAY, Friday, 24th April, 2009
12.30 – 13.30



Dear Participants,

We invite you cordially to participate at the 10th INTERNATIONAL SYMPOSIUM “INTERDISCIPLINARY REGIONAL RESEARCH” – ISIRR 2009 – ANNIVERSARY EDITION, which will be held in Hunedoara – ROMANIA, in April, 23rd – 24th, 2009.

The previous Symposiums, held in HUNGARY, SERBIA and ROMANIA since 1996, proved to be an efficient, convenient and amicable way of exchanging ideas on relationships of multidisciplinary research areas, and will ensure an exchange of scientific information and didactical opinions in fields with an impressive dynamic considering the research and the technological progress.

The Symposium will also provide the opportunity for exchanging ideas and experience with our colleagues coming from HUNGARY, SERBIA and ROMANIA and for developing new scientific collaboration.

This time, the Symposium is again organized jointly by the **Association for Multidisciplinary Research of West Zone of Romania – Timișoara**, through the **Faculty of Engineering – Hunedoara**. The Symposium will be held in the **FACULTY OF ENGINEERING – HUNEDOARA**, at **Revoluției Street 5, Hunedoara, ROMANIA**.

The Symposium is an open invitation for all specialists, professors, researchers and experts in all scientific fields, who can produce a free presentation of the results in their activities. There will be oral and poster presentations.

The Symposium includes **plenary sessions, work-shops, poster presentations, informative and agreement actions**. The papers of a high scientific level will be presented during the Symposium, while the rest of the papers will have a poster-form presentation.

Oral presentation: Invited speakers will have **20 min**, and other participants **10 min (+ 5 min for discussion)**.

Poster presentation: The maximal width of posters is **90 cm**, and the length, **140 cm**.

Date: Thursday, **23rd** – Friday, **24th** of April, 2009.

The official language at the Symposium is **English**.

The organizers look forward to your participation and presentations, and hope that the Symposium will further promote regional cooperation on relationships of multidisciplinary research areas.

Regional Organizing Committee













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ANNALS OF FACULTY ENGINEERING HUNEDOARA
- JOURNAL OF ENGINEERING

