



“VASILE ALECSANDRI” UNIVERSITY OF BACAU, ROMANIA
FACULTY OF ENGINEERING
“GHEORGHE ASACHI” UNIVERSITY OF IAȘI, ROMANIA
POLITEHNICA UNIVERSITY OF BUCHAREST, ROMANIA
ROMANIAN ACADEMY OF AGRICULTURAL AND FORESTRY SCIENCES
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WARSAW UNIVERSITY OF TECHNOLOGY, POLAND
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ROMANIAN ASSOCIATION OF MANAGERS AND ECONOMIC ENGINEERS



THE INTERNATIONAL CONFERENCES

“VASILE ALECSANDRI” UNIVERSITY OF BACĂU
FACULTY OF ENGINEERING
OPROTEH-2019
CISA-2019
CIER-2019

PROGRAM

BACAU
MAY 22-24, 2019



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THE INTERNATIONAL CONFERENCES CELEBRATING
43 YEARS OF TECHNICAL HIGHER EDUCATION INTO
"VASILE ALECSANDRI" UNIVERSITY OF BACAU

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CONFERENCES PROGRAM

WEDNESDAY 22 MAY 2019		
18 ⁰⁰ – 20 ⁰⁰	Welcome & Registration	<i>D Building, Central Hall, first floor</i>
20 ⁰⁰	Dinner	<i>University Restaurant</i>

THURSDAY 23 MAY 2019		
08 ⁰⁰ – 10 ⁰⁰	Welcome & Registration	<i>D Building, Central Hall, first floor</i>
10 ⁰⁰ – 10 ⁴⁵	Conferences official opening	<i>The Aula of the University</i>
10 ⁴⁵ – 12 ³⁰	Plenary lectures	<i>The Aula of the University</i>
12 ³⁰ – 14 ⁰⁰	Lunch	<i>University Restaurant</i>
14 ⁰⁰ – 16 ⁰⁰	Conferences lectures/ Technical exhibitions	<i>See schedule / D Building, ground floor</i>
16 ⁰⁰ – 16 ³⁰	Coffee break / poster sessions	<i>Central Hall</i>
16 ³⁰ – 18 ³⁰	Conferences lectures/ Technical exhibitions	<i>See schedule / D Building, ground floor</i>
16 ³⁰ – 18 ³⁰	Roundtable "Energy Efficiency and Renewable Energy in the context of Sustainable Development"	<i>BI 42 Hall</i>
20 ⁰⁰	Gala dinner	<i>DECEBAL Restaurant</i>

THURSDAY 23 MAY 2019 for CIER		
08 ⁰⁰ – 10 ⁰⁰	Welcome & Registration	<i>Senate Hall</i>
12 ³⁰ – 14 ⁰⁰	Lunch	<i>University Restaurant</i>
15 ³⁰ – 16 ⁰⁰	CIER official opening	<i>BI 29 Amphitheater</i>
16 ⁰⁰ – 19 ³⁰	The consortium's work	<i>BI 29 Amphitheater</i>

THURSDAY 23 MAY 2019 "MOISE TUTUREA" student's contest		
08 ⁰⁰ – 10 ⁰⁰	Welcome & Registration	<i>Senate Hall</i>
12 ³⁰ – 14 ⁰⁰	Lunch	<i>University Restaurant</i>
14 ³⁰ – 18 ³⁰	"MOISE TUTUREA" student's contest	<i>BI 1 Amphitheater</i>
18 ³⁰ – 19 ³⁰	The awards ceremony of the students	<i>The Aula of the University</i>



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FRIDAY 24 MAY 2019		
09 ⁰⁰ – 12 ³⁰	Conferences lectures/ Technical exhibitions	<i>See schedule / D Building, ground floor</i>
10 ⁰⁰ – 11 ⁰⁰	Visit to laboratories	
11 ⁰⁰ – 13 ³⁰	Discussion on the future of scientific research	<i>BI 29 Amphitheater</i>
14 ⁰⁰	Departure of participants	



THE INTERNATIONAL CONFERENCES CELEBRATING
43 YEARS OF TECHNICAL HIGHER EDUCATION INTO
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***Welcome to the International Conference of
"VASILE ALECSANDRI" UNIVERSITY OF BACĂU
FACULTY OF ENGINEERING***

PLENARY CONFERENCES

**CHAIRPERSONS: PROF. VALENTIN NEDEFF
PROF. BERNARD PAUL
PROF. CAROL SCHNAKOVSKY**

1. A MULTI-CRITERIA APPROACH TO ASSESS IMPACTS OF FOREST MANAGEMENT POLICIES IN THE CONTEXT OF SUSTAINABILITY. A CASE STUDY ON THE FORESTS OF KENTRIKI MAKEDONIA REGION IN GREECE – VASSILIKI KAZANA
2. MAPPING GROUNDWATER VULNERABILITY TO POLLUTION IN THE REGION OF ADIAKE, SOUTHEAST COASTAL OF COTE D'IVOIRE – GEORGES EBLIN SAMPAH, ARMAND ANOH KOUAO, AFFOUÉ BERTHE YAO, SORO NAGNIN, VALENTIN NEDEFF, BÂRSAN NARCIS
3. COMPOSITE MATERIALS BASED ON POLYMETAL OXIDES – ALEXANDRA RALUCA IORDAN, MIRCEA PALAMARU, ADRIAN BORHAN, MIRELA AIRIMIOAEI, TAMARA SLĂTINEANU, SIMONA FERARU, ALIN DRUC, ȘTEFANA COJOCARU



THE INTERNATIONAL CONFERENCES CELEBRATING
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*Welcome to the 14th International Conference of Constructive Design and
Technological Optimization in Machine Building*

OPROTEH 2019



1. 14TH INTERNATIONAL CONFERENCE OF CONSTRUCTIVE DESIGN AND TECHNOLOGICAL OPTIMIZATION IN MACHINE BUILDING

1.A. OPTIMIZATION OF MANUFACTURING PROCESSES AND SYSTEMS & COMPUTER AIDED DESIGN AND MANUFACTURING

THE AULA OF THE UNIVERSITY

THURSDAY 23 MAY 2019 14⁰⁰ – 18³⁰

FRIDAY 24 MAY 2019 09⁰⁰ – 12³⁰

**CHAIRPERSONS: PROF. DUMITRU NEDELICU
PROF. GHEORGHE BRABIE
PROF. ION CRISTEA**

1. MODELLING SOIL MOISTURE IN PHYTOREMEDIATIONS AND PUBLIC HEALTH PROTECTION – *TILEMACHOS KOLIOPOULOS, KRYSZYNA CIARKOWSKA, JACEK ANTONKIEWICZ, PANAGIOTIS KOULOUMPIS, EVANGELOS MANOUSAKIS, CRINA RADU, ION CRISTEA*

2. MODELLING SOIL COVER AND EFFECTIVE DESIGNS FOR FIRE PROTECTION IN COMMUNITY HEALTH BUILDINGS – *TILEMACHOS KOLIOPOULOS, PANAGIOTIS KOULOUMPIS, EVANGELOS MANOUSAKIS, CRINA RADU, ION CRISTEA*

3. INFILL INFLUENCE AND FILLING TYPE ON TENSILE STRENGTH OF PLA BIODEGRADABLE MATERIAL USING FDM TECHNOLOGY – *ANDREI MAZURCHEVICI, CONSTANTIN CARAUSU, CIPRIAN CIOFU, RAMONA POPA, SIMONA NICOLETA MAZURCHEVICI, DUMITRU NEDELICU*

4. EFFECT OF MACHINING PARAMETERS ON SURFACE MICROHARDNESS OF AL6061T6 PARTS – *CĂTĂLIN TÂMPU, GHEORGHE BRABIE, CAROL SCHNAKOVSKY, EUGEN HERGHELEGIU, BOGDAN CHIRIȚĂ, RALUCA TÂMPU, DIANA LUNGU, MARIAN NECHITA*

5. A STUDY ABOUT FLUID FLOW PARAMETERS THROUGH DIFFERENT CONVERGENT-DIVERGENT NOZZLES FROM CUTTING SYSTEMS IN MACHINING – *IONEL OLARU*

6. A STUDY ABOUT THERMAL SIMULATION IN SOLIDWORKS IN THE CASE OF DIFFERENT GEOMETRY OF THE PROCESSED PIECES BY CUTTING – *IONEL OLARU*



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7. NEW CHALLENGES IN ABRASIVE WATER JET MACHINING – *CĂTĂLINA CIOFU, CĂTĂLIN TÂMPU, EUGEN HERGHELEGIU, COSMIN ALEXANDRU IANCU, GHEORGHE BRABIE*

8. TENDENCIES IN FORMING SHEET METAL PARTS USING INCREMENTAL FORMING ADVANCED TECHNOLOGIES – *CĂTĂLINA CIOFU, BOGDAN CHIRIȚĂ, ROXANA LUPU, COSMIN GRIGORAȘ, GHEORGHE BRABIE*

9. MATERIALS FOR AUTOMOTIVE INDUSTRY AND THEIR INFLUENCE ON THE DYNAMICS OF A CAR CRASH – *NICOLAE NĂVODARIU, ROBERT CIOCOIU, OCTAVIAN TRANTE, VASILE IULIAN ANTONIAC*

10. INFLUENCE OF CUTTING PARAMETER ON SURFACE QUALITY GENERATED BY MILLING – *CĂTĂLIN TÂMPU, CRINA RADU, CAROL SCHNAKOVSKY, ION CRISTEA, BOGDAN CHIRIȚĂ, RALUCA TÂMPU, VALENTIN ZICHIL, EUGEN HERGHELEGIU, COSMIN GRIGORAȘ*

11. AN EXPERIMENTAL STUDY REGARDING THE INFLUENCE OF INSULATED GLASS COMBINATION ON THERMAL TRANSFER – *COSMIN IANCU, GHEORGHE BRABIE, CĂTĂLIN TÂMPU, ION CRISTEA, BOGDAN CHIRIȚĂ, RALUCA TÂMPU, EUGEN HERGHELEGIU, RADU CĂLIMAN*

12. MULTI-CRITERIA DECISION APPROACH WITH AHP AND IF-TOPSIS METHODS FOR R&D PROJECT SELECTION PROCESS – *EZGİ GÜLER, SELEN AVCI, ZERRİN ALADAĞ*

13. ROUTE FIRST—CLUSTER SECOND METHOD FOR PERSONAL SERVICE ROUTING PROBLEM – *MELİKE KÜBRA EKİZ, MUHAMMET BOZDEMİR, BURCU ÖZCAN TÜRKKAN*

1.B. OPTIMIZATION OF TECHNOLOGIES AND EQUIPMENT FROM PROCESS INDUSTRIES

THE SENATE HALL

THURSDAY 23 MAY 2019 14⁰⁰ – 18³⁰

FRIDAY 24 MAY 2019 09⁰⁰ – 12³⁰

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PROF. LUMINIȚA BIBIRE
PROF. IULIANA-MARLENA PRODEA
PROF. NICOLETA SPOREA

1. CONTROL AND DIAGNOSTIC MODULE OF FUEL INJECTORS – *KRZYSZTOF WIĘCŁAWSKI, DAMIAN WALCZAK, JĘDRZEJ MAĆZAK, KRZYSZTOF SZCZUROWSKI*

2. EFFECT OF SUGAR SUBSTITUTES ON WHEAT DOUGH RHEOLOGY - *ELENA-MĂDĂLINA ȘTEFAN, GHEORGHE VOICU, MARIANA MUNTEANU, GABRIEL – ALEXANDRU CONSTANTIN, REBECCA PALTINEANU*

3. STUDIES ON THE BEHAVIOR OF A REAL SOLID PARTICLE ON A PLANNING OSCILANT SURFACE – *EMILIAN-FLORIN MOSNEGUȚU, VALENTIN NEDEFF, OANA TÎRȚOACĂ (IRIMIA), DANA CHIȚIMUȘ, OVIDIU BONTAȘ, DRAGOȘ RUSU*

4. CALCULATIONS OF GAMA TYPE HOOKS FOR THE LIFTING OR ANCHORING OF INDUSTRIAL MECHANICAL EQUIPMENT – *RADU I. IATAN, MIHAI STĂTESCU*

5. REGARDING THE LOAD DISTRIBUTUION ON PLATFORMS/RAILWAY WAGONS FOR THE TRANSPORTATION OF INDUSTRIAL MECHANICAL EQUIPMENTS – *RADU I. IATAN, MIHAI STĂTESCU*



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6. STRESSES AND DEFORMATIONS IN TOROIDAL SHELLS WITH ELIPSOIDAL CROSS SECTION – *RADU I. IATAN, GHEORGHİȚA TOMESCU, ION DURBACĂ*

7. APPLICATION OF THE "SIX SIGMA" STATISTICAL STRATEGY FOR IMPROVING THE QUALITY OF PRACTICE INTERNSHIPS IN THE UNIVERSITARY EDUCATION - **ION DURBACĂ**, MARILENA ENACHE – *CRIVIDENCO, RADU I. IATAN, VASILE SĂCUIU, MELANIA MITUCĂ-CORLECIUC, ANDREEA NIȚU*

8. A NEW IMAGING ANALYSIS METHOD FOR A SOLID PARTICLE BEHAVIOR IN AN VERTICAL ASCENDING AIRFLOW – *EMILIAN-FLORIN MOSNEGUȚU, VALENTIN NEDEFF, NARCIS BÂRSAN, CLAUDIA TOMOZEI, DRAGOȘ RUSU*

9. STUDIES ON THE INFLUENCE OF THE NUMBER OF KNIVES ON THE ROTOR ON THE OPERATING PARAMETERS AND SOME QUALITATIVE WORKING INDICATORS FOR VERTICAL ROTOR GRAPPLES – *VALENTIN IORDACHE, ION SARACIN, SORIN DAN IORDACHE, IOAN ALEXANDRU SARACIN*

10. DYNAMICS OF FERMENTATION PROCESS OF BREAD DOUGH PREPARED WITH DIFFERENT TYPES OF YEAST – *MARIANA GABIELA MUNTEANU, GHEORGHE VOICU, MARIANA FERDEȘ, MĂDĂLINA ELENA ȘTEFAN*

1.C. OPTIMIZATION IN ENVIRONMENTAL ENGINEERING AND ENVIRONMENTAL PROTECTION

THE SENATE HALL

THURSDAY 23 MAY 2019 14⁰⁰ – 18³⁰

FRIDAY 24 MAY 2019 09⁰⁰ – 12³⁰

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PROF. VALENTIN NEDEFF
PROF. GEORGES EBLIN SAMPAH
PROF. MIRELA PANAINTE-LEHĂDUȘ

1. MATHEMATICAL MODEL FOR THE ABSORPTION CAPACITY OF CADMIUM AND NICKEL FROM THE SOIL IN THE CASE OF PHRAGMITES AUSTRALIS PLANT SPECIES – *ALEXANDRA - DANA CHIȚIMUȘ, VALENTIN NEDEFF, CRISTIAN RADU, EMILIAN MOȘNEGUȚU, NARCIS BÂRSAN*

2. TRAFFIC MONITORING IN IMPORTANT BACĂU CITY INTERSECTIONS – *MIRELA PANAINTE-LEHĂDUȘ, FLORIN NEDEFF, CLAUDIA TOMOZEI, OANA IRIMIA, ALINA MIHAELA PETROVICI*

3. INFLUENCE OF MAIN WORKS SYSTEMS ON PHYSICAL AND CHEMICAL PROPERTIES OF THE SOIL – *OANA-MARIA MUSCALU (PLEȘCAN), ALEXANDRA - DANA CHIȚIMUȘ, VALENTIN NEDEFF, ELENA PARTAL, EMILIAN MOȘNEGUȚU, NARCIS BÂRSAN*

4. PROTECTION OF THE ENVIRONMENT BY REDUCING THE QUANTITY OF PESTICIDES USED IN AGRICULTURE, DUE TO THE INCREASE OF PHYTOSANITARY TREATMENTS PRECISION AND EFFICIENCY – *MIHAIL-FLORIAN-NICOLAE NEACȘU*

5. TECHNOLOGICAL OPTIMIZATION AND EMPIRICAL MODELING OF AN INDUSTRIAL EFFLUENT TREATMENT BASED ON COAGULATION-FLOCCULATION-SEDIMENTATION – *CARMEN ZAHARIA*



6. CALCULATION OF THE CROSS SECTION ACTIVE AREA FOR A POLYMERIC SPIRAL WOUND MEMBRANE OF REVERSE OSMOSIS – *MIHAELA-ELENA DASCĂLU, FLORIN NEDEFF, VLAD CIUBOTARIU, EMILIAN MOSNEGUȚU*

7. QUALITY OF SURFACE WATER AND GROUNDWATER IN THE SOUTHWEST COUNTY BACAU: PHYSICO-CHEMICAL ANALYSIS OF PARAMETERS NEAR THE SALT MINES – *ALINA COCHIORCA, VALENTIN NEDEFF, NARCIS BÂRSAN, EMILIAN FLORIN MOȘNEGUȚU, MIRELA PANAINTE-LEHĂDUȘ, OANA ȚÎRȚOACĂ (IRIMIA)*

8. THE CURRENT STATUS OF INTERMODAL NODES AND THEIR CAPACITY IN ORDER TO DEVELOP THE TEN-T NETWORK ON THE ROMANIAN SIDE OF THE ROMANIAN-BULGARIAN CROSS-BORDER REGION – *CRISTIANA SÎRBU*

9. AN APPROACH FOR TRAFFIC MONITORING BASED ON ORIGINS - DESTINATION INTERVIEWS – *OANA ȚÎRȚOACĂ (IRIMIA), VALENTIN NEDEFF, MIRELA PANAINTE-LEHĂDUȘ, CLAUDIA TOMOZEI*

10. NITRATE POLLUTION OF GROUNDWATER IN THE CITY OF DALOA, WEST-CENTRAL CÔTE D'IVOIRE – *GEORGES EBLIN SAMPAH, SERAPHIN KONAN KOUAKOU, OI MANGOUA JULES MANGOUA, VALENTIN NEDEFF, BÂRSAN NARCIS*

11. STUDY OF WASTE MANAGEMENT FOR DIFFERENT AREAS IN ROMANIA – *MIHAI VULPE, VALENTIN NEDEFF, EMILIAN FLORIN MOȘNEGUȚU, MIRELA PANAINTE-LEHĂDUȘ, NARCIS BÂRSAN, OANA ȚÎRȚOACĂ (IRIMIA)*

12. PUBLIC TRANSPORT IN BACAU CITY – *CLAUDIA TOMOZEI, OANA IRIMIA, MIRELA PANAINTE-LEHĂDUȘ, FLORIN NEDEFF*

13. LABORATORY APPLICATION OF CHEMICALS PRODUCTS FOR MUNICIPAL SLUDGE DEWATERING – *NARCIS BÂRSAN, MARIANA TURCU, VALENTIN NEDEFF, DANA CHIȚIMUȘ, EMILIAN MOSNEGUTU*

14. THE USE OF BIOCHAR AND COMPOST MIXTURES AS POTENTIAL ORGANIC FERTILIZERS – *ELENA GOLDAN, VALENTIN NEDEFF, EMILIAN MOSNEGUTU, MIRELA PANAINTE-LEHĂDUȘ*

15. MEASURING OF PM 10 POWDERS FROM THE AMBIENT ENVIRONMENT WITH SAMPLING EQUIPMENTS, ACCORDING TO STANDARDS IN FORCE – *MELANIA MITUCĂ-CORLECIUC, ION DURBACĂ, RADU I. IATAN, ANDREEA NIȚU, VASILE SĂCUIU, LUANA NISTEA*

16. STUDY ON THE TECHNICAL-ECONOMIC EFFICIENCY OF MEASURES TO REDUCE EMISSIONS OF PARTICULATE POLLUTANT IN AIR PROVIDED FOR IN AIR QUALITY PLANS FOR LARGE URBAN AGGLOMERATIONS – *MELANIA MITUCĂ-CORLECIUC, ION DURBACĂ, RADU I. IATAN, ANDREEA NIȚU, VASILE SĂCUIU, LUANA NISTEA*

17. VEHICLE SPEED MEASUREMENTS FOR PREDICTION OF TRAFFIC NOISE AND AIR POLLUTION – *ALINA MIHAELA PETROVICI, VALENTIN NEDEFF, JOSE LUIS CUETO ANCELA, MIRELA PANAINTE-LEHĂDUȘ*

18. ACTUAL CONCEPTS ON EUROPEAN POLICY FOR REDUCING EMISSIONS OF CARBON DIOXIDE (CO₂) – *ANDREEA NIȚU, MELANIA MITUCĂ-CORLECIUC, VASILE SĂCUIU, ION DURBACĂ, RADU I. IATAN*

19. STUDIES AND RESEARCH ON PHYSICAL CLIMATE PARAMETERS INFLUENCE TO THE AIR BENZENE CONCENTRATION VARIATION. CASE STUDIES BACAU CITY 2009 – *DOINA CAPȘA, NARCIS BÂRSAN, VALENTIN NEDEFF, TOMOZEI CLAUDIA, EMILIAN MOSMEGUȚU*

20. CELLULAR FILTRATION SYSTEM WITH ACTIVATED CARBON FOR THE RETENTION OF POLLUTION PARTICLES AND HARMFUL GASES FROM THE GASEOUS EMISSIONS EVACUATED IN THE AMBIENTAL ENVIRONMENT FROM A LARGE COMBUSTION PLANTS – *AUREL DUMITRU, MELANIA MITUCĂ-CORLECIUC, ION DURBACĂ, RADU I. IATAN, ANDREEA NIȚU, VASILE SĂCUIU, LUANA NISTEA*



21. STUDY ON ANTICIPATED TENDENCIES REGARDING THE LEVEL OF ANTHROPOGENIC GREENHOUSE GAS EMISSIONS – **ANDREEA NIȚU, MELANIA MITUCĂ-CORLECIUC, VASILE SĂCUIU, ION DURBACĂ, RADU I. IATAN**

22. THE HISTORY OF OBTAINING BIOGAS, WITH CUSTOMIZATIONS IN ROMANIA – **VASILE SĂCUIU, ANDREEA NIȚU, MELANIA MITUCĂ-CORLECIUC, ION DURBACĂ, RADU I. IATAN, LUANA NISTEA**

23. STUDIES ON THE CLASSIFICATION OF PESTICIDES AND THEIR IMPACT ON ENVIRONMENT AND HUMAN HEALTH – **ALINA MARIA COROBANĂ, NARCIS BÂRSAN, VALENTIN NEDEFF, DANA CHIȚIMUȘ, MIRELA PANAINTE-LEHADUS, CLAUDIA TOMOZEI**

24. DIGESTERS FOR BIOGAS OBTAINING - HISTORIC, SPECIFIC CONSTRUCTIONS, USES – **VASILE SĂCUIU, MELANIA MITUCĂ-CORLECIUC, ANDREEA NIȚU, ION DURBACĂ, RADU I. IATAN, LUANA NISTEA**

25. THE IMPORTANCE OF WATER QUALITY ASSURANCE IN THE WATER TREATMENT PROCESS. AN OVERVIEW BETWEEN TAP WATER AND BOTTLED WATER – **FLORINA FABIAN, VALENTIN NEDEFF, NARCIS BÂRSAN, OANA ȚÎRȚOACĂ (IRIMIA), DANA CHIȚIMUȘ**

26. SOME ASPECTS ON SLAUGHTERHOUSES WASTEWATER MANAGEMENT: A CASE STUDY – **IULIANA-MARLENA PRODEA, MARIANA-FLORENTINA ȘTEFĂNESCU, NICOLETA SPOREA, MONICA TUDOR**

27. EFFECT OF PROTEINS PROPERTIES ON ULTRAFILTRATION MEMBRANE FOULING PERFORMANCE IN WATER TREATMENT – **LAURENȚIU TĂTARU, VALENTIN NEDEFF, NARCIS BÂRSAN, EMILIAN MOȘNEGUȚU, MIRELA PANAINTE-LEHĂDUȘ, DANA ALEXANDRA CHIȚIMUȘ**

28. RESEARCH ON THE INFLUENCE OF SOIL PROPERTIES ON THE DEVELOPMENT OF AMARANTHACEAE SPONTANEOUS FLORA – **SARACIN PATRICIA AIDA**

29. SPECTROPHOTOMETRIC DETERMINATION OF HEAVY METALS AND ORGANIC COMPOUNDS IN WATER SAMPLES COLLECTED FROM VARIOUS SOURCES – **CAROLINA UNTILA, CARAMAN MIHAIL, NARCIS BÂRSAN, VALENTIN NEDEFF, DANA CHIȚIMUȘ, EMILIAN MOȘNEGUȚU**

30. PRODUCTIVITY AND PROCESSES WITH EMERGENCY STRATEGY – **CARLOS MANDAKOVIC FANTA**

31. FUEL MANAGEMENT FOR WILDFIRE HAZARD REDUCTION: A GREEK CASE STUDY – **RAPTIS DIMITRIOS, KAZANA VASSILIKI, STAMATIOU CHRISTOS, KAZAKLIS ANGELOS**

32. A MULTI-CRITERIA APPROACH TO ASSESS IMPACTS OF FOREST MANAGEMENT POLICIES IN THE CONTEXT OF SUSTAINABILITY. A CASE STUDY ON THE FORESTS OF KENTRIKI MAKEDONIA REGION IN GREECE – **KAZANA VASSILIKI, KAZAKLIS ANGELOS, RAPTIS DIMITRIOS, STAMATIOU CHRISTOS**

33. LEMNA MINOR L. AS A BIOMARKER FOR ASSESSING THE ECOTOXICITY DEGREE OF SEWAGE SLUDGE – **DUMITRA RĂDUCANU, IOAN VIOREL RAȚI**

34. COMPARATIVE ANALYSIS OF FEEDING AND PRE-COMPACTING SYSTEMS FOR MUNICIPAL SOLID WASTE – **GHEORGHE VOICU, MIRCEA LAZEA, PAUL TUDOR, BIANCA-STEFANIA ZABAVA**

35. MAPPING GROUNDWATER VULNERABILITY TO POLLUTION IN THE REGION OF ADIAKE, SOUTHEAST COASTAL OF COTE D'IVOIRE: A COMPARATIVE STUDY OF THREE (3) METHODS – **GEORGES EBLIN SAMPAH, ARMAND ANOH KOUAO, AFFOUÉ BERTHE YAO, SORO NAGNIN, VALENTIN NEDEFF, NARCIS BÂRSAN**

36. THE IMPORTANCE OF GREEN PURCHASING BASED ON ENVIRONMENTAL LABEL / CERTIFICATIONS ON THE ROMANIAN MARKET – **ANTONINA TEMEA, VALENTIN NEDEFF, MIRELA PANAINTE-LEHĂDUȘ, TOMOZEI CLAUDIA**

37. ASPECTS CONCERNING THE EXAMINATION BY ACOUSTIC EMISSION OF TRANSPORTABLE PRESSURE EQUIPMENT COVERED BY DIRECTIVE 2010/35 / EU – **LUMINITA BIBIRE, COSTEL-DORINEL ULERIU, ROMINA RIQUELME PIZARRO**



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38. STUDIES ON THE INTERACTIONS OF DENTAL MATERIALS WITH THE BIOLOGICAL ENVIRONMENT – *IOAN ALEXANDRU SARACIN, GHEORGHE VOICU, ION SARACIN, VALENTINE IORDACHE*

39. MODERN METHODS FOR IDENTIFYING RISK FACTORS IN THE TEACHING AND LEARNING PROCESS – *GABRIELA TOMA, IULIANA TUGUI, MONA APETREI, STEFAN LUCIAN TOMA*

1.D. MECHATRONICS & ROBOTICS

THE AULA OF THE UNIVERSITY

THURSDAY 23 MAY 2019 14⁰⁰ – 18³⁰

FRIDAY 24 MAY 2019 09⁰⁰ – 12³⁰

CHAIRPERSONS: **PROF. ROMEO CIOARĂ**
PROF. GHEORGHE STAN
PROF. ADRIAN GHENADE
PROF. ALPER UYSAL

1. ANOVA OPTIMIZATION OF DRILL BIT TEMPERATURE IN DRILLING OF PURE AND CARBON BLACK REINFORCED HIGH DENSITY POLYETHYLENE – *UYSAL ALPER*

2. INNOVATIVE PLANETARY TRANSMISSIONS – *GHEORGHE STAN*

3. TRAJECTORY ERROR MINIMISATION METHOD DUE TO TRANSIENT REGIME VARIATION OF INDUSTRIAL ROBOTS KINEMATIC LINKS – *ANDREI LUNCANU, GHEORGHE STAN*

4. THE THERMAL INFLUENCE ON THE KINEMATIC FEED CHAINS PRECISION USED BY NUMERICAL CONTROL MACHINE TOOLS – *ADRIAN STOICA, GHEORGHE STAN*

5. AUTOMATIC HYDRAULIC CAR STARTING SYSTEM – *VIOREL IVAN, GHEORGHE STAN*

6. AEROSTATIC GUIDELINES USED IN COORDINATED MEASURING MACHINES – *TUDOR IVANOV, GHEORGHE STAN*

7. THEORETICAL RESEARCHES ON THE DURABILITY OF COMPOSITE MATERIALS WITH METALLIC AND NON-METALLIC MATRICES – *RADU CĂLIMAN*

8. PNEUMATIC SOLUTION FOR AUTOMATION OF FEED DELIVERY SYSTEMS – *LILIANA TOPLICEANU, ALEXANDRU VASILIU*

9. STUDY OF DEFORMATIONS AND TENSIONS DEVELOPED IN THE HYDRAULIC CYLINDER ROD BY APPLYING THE NX SIEMENS SOFTWARE – *LILIANA TOPLICEANU, IOANA IACOB*

10. METHOD FOR SIMULATING OF CHARACTERISTIC DYNAMIC BEHAVIOR OF ATCM FOR CPFH-500 AND RESULTS INTERPRETATION – *ADRIAN GHENADI, OVIDIU RELU COJOCARU*

11. STUDY ON OPTIMIZING ATCM SPECIFIC PERFORMANCE – *ADRIAN GHENADI, OVIDIU RELU COJOCARU*

12. IMPLEMENTING AND ADJUSTING A PID REGULATOR TO A DISTRIBUTED SYSTEM WITH TSX 37 – *PETRU GABRIEL PUIU, LILIANA TOPLICEANU*



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1.E. ECONOMIC ENGINEERING

THE AULA OF THE UNIVERSITY

THURSDAY 23 MAY 2019 14⁰⁰ – 18³⁰

FRIDAY 24 MAY 2019 09⁰⁰ – 12³⁰

CHAIRPERSONS: **PROF. CATALIN DROB**
 PROF. RADU CALIMAN
 PROF. DRAGOS RUSU

1. AN ANALYSIS OF INTELLECTUAL CAPITAL FROM THE PERSPECTIVE OF THE ENTROPIC MODEL – *ANDREEA FERARU*
2. OVERVIEW REGARDING BUSINESS INVESTMENT MODELS – *CĂTĂLIN DROB*
3. OVERVIEW REGARDING THE RISK MANAGEMENT WITHIN PROJECT – *CĂTĂLIN DROB, VALENTIN ZICHIL*

1.F. INFORMATION TECHNOLOGY POWER ENGINEERING

BI 42 HALL

THURSDAY 23 MAY 2019 16³⁰ – 18³⁰

FRIDAY 24 MAY 2019 09⁰⁰ – 12³⁰

CHAIRPERSONS: **PROF. ROXANA GRIGORE**
 PROF. PETRU LIVIŢI
 PROF. CRISTIAN NICHITA

ROUNDTABLE “ENERGY EFFICIENCY AND RENEWABLE ENERGY IN THE CONTEXT OF SUSTAINABLE DEVELOPMENT”

CHAIRPERSONS: **PROF. RÓBERT ISTÓK**
 PROF. GEORGE CULEA
 PROF. PETRU GABRIEL PUIU

1. IMPLEMENTING AND ADJUSTING A PID REGULATOR TO A DISTRIBUTED SYSTEM WITH TSX 37 – *PETRU GABRIEL PUIU, EUSEBIU PRUTEANU*
2. KNOWLEDGE MANAGEMENT IN SOCIAL INTERNET OF THINGS – *SIMONA VĂRLAN*
3. 3D RENDERING OF THE MARASESTI CAMPUS USING THE PRISM3D DEVELOPMENT PLATFORM – *DRAGOŞ-ALEXANDRU ANDRIOAIA, ŞTEFAN IFRIM*
4. ASSESSMENT ON ANDROID MULTIMEDIA APPLICATIONS DEVELOPMENT – *COZMIN TOMOZEI*
5. CONCEPT DEVELOPMENT OF HYBRID WIND/TIDAL POWER CONVERSION SYSTEM BASED ON ELECTRO-MECHANICAL COUPLING – *MOHMED ASHGLAF, CRISTIAN NICHITA*
6. VARIATION OF HARMONICS EMISSION FROM MODERN LAMPS IN A POWER SUPPLY NETWORK – *RÓBERT ISTÓK*



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7. AN ANALYSIS OF CYBER SECURITY TOOLS – *GEORGE CULEA, POPESCU CORNEL*
8. CONSIDERATIONS ON THE IMPORTANCE OF PROPER ENERGY SYSTEMS THAT CAN BE USED IN NEARLY ZERO ENERGY BUILDINGS – *ROXANA GRIGORE, GEORGE CULEA, LAURENȚIU MĂGUREANU*
9. ASPECTS ABOUT THE INCREASING PERCENTAGE OF THE ELECTRICITY PRODUCED FROM RENEWABLE SOURCES AND THE INCREASE OF ENERGY EFFICIENCY, IMPORTANT MEASURES FOR LIMITING CLIMATE CHANGE – *ROXANA GRIGORE, SORIN-GABRIEL VERNICA, MIHAI PUIU-BERIZINȚU*
10. CONSIDERATIONS ON THE ESTABLISHMENT OF OPTIMAL SOLUTIONS FOR CONNECTING A CONSUMER TO THE ELECTRICAL DISTRIBUTION NETWORK – *GHEORGHE HAZI, ANETA HAZI*
11. PARTICULARITIES OF THE CALCULATION OF SHORT-CIRCUIT CURRENTS IN AN ELECTRIC POWER PLANT – *ANETA HAZI, GHEORGHE HAZI*
12. SECURITY ISSUES REGARDING NETWORK – *SORIN EUGEN POPA*
13. BRIDGE CHOPPER FOR DC MOTOR DRIVE CONTROL – *MIHAI PUIU-BERIZINȚU*
14. THE COMMAND A STEPPER MOTOR WITH DEVELOPMENT PLATFORM ARDUINO UNO – *PETRU LIVINȚI*
15. CENTRAL SOFT UNIT FOR INTERNET APPLICATIONS – *DAN ROTAR*
16. AN OCCUPATION SPECIFIC MODEL TOWARDS FATIGUE FOR ROMANIAN ENERGETIC-FIELD'S WORKERS – *CULEA CĂTĂLINA*
17. DIZERG – A NEW ERGONOMIC POSTURAL ASSESSMENT FOR PERSONS WITH DISABILITIES – *CULEA CĂTĂLINA*
18. 2D IMAGES OF AN ANGIOGRAPHY AS 3D PERCEPTIONS USING FREE SOFTWARE – *DAN V. POPA*
19. INTELLIGENT CONTROLLER BASED ON RASPBERRY PI – *EUSEBIU PRUTEANU, IULIAN FURDU*
20. TESTING G.U.N.T. RENEWABLE SOURCES ENERGY CONVERSION LABORATORY EQUIPMENT – *IURIE NUCA, ION SOBOR, OCTAVIAN MANGOS, ILIE NUCA*
21. ASSESING THE INTRODUCTION OF GAMIFICATION ELEMENTS ON COURSE COMPLETION WITHIN EXTRAMURAL LEARNING – *FURDU IULIAN, COSMIN TOMOZEI, EUSEBIU PRUTEANU*
22. INTELLIGENT ROBOTIC SYSTEM FOR INTERPRETATION AND ANALYSIS OF THE VISUAL FIELD – *GEORGE CULEA*



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CISA 2019



2. INTERNATIONAL CONFERENCE OF APPLIED SCIENCES

DP 17 AMPHITHEATER

THURSDAY 23 MAY 2019 14⁰⁰ – 18³⁰

FRIDAY 24 MAY 2019 09⁰⁰ – 12³⁰

CHAIRPERSONS: **PROF. CONSTANTIN BIRLADEANU**
 PROF. MARCEL IONEL POPA
 PROF. ALEXANDRA RALUCA IORDAN
 PROF. BERNARD PAUL
 PROF. OANA PÎRVULESCU
 PROF. ILEANA DENISA NISTOR

1. SYNTONE CHEMISTRY. PREBIOTIC STAGE IN THE APPEARANCE OF LIFE –
SURPĂȚEANU GHEORGHE, ANA-MARIA GEORGESCU, ILEANA DENISA NISTOR, NECULAI DORU MIRON

2. AGRICULTURE DURABLE : PEUT-ON COMPTER SUR LES MICRO-ORGANISMES POUR
COMBATTRE LES MALADIES DE LA VIGNE ? – *SUBHI BHARDAWAJ, BERNARD PAUL*

3. ENHANCEMENT OF BENDING STRENGTH PROPERTIES OF PINE WOOD REINFORCED
WITH CARBON FIBER FABRICS (CFF) – *SOTIRIOS KARASTERGIU, DAFNI FOTI, VASILEIOS
FILIPPOU, ANTONIOS PAPADOPOULOS*

4. SYNERGETIC ADSORPTION AND PHOTOCATALYTIC DEGRADATION OF MO: LOW
TEMPERATURE MESOPOROUS NiFe₂O₄ THE FUTURE IN WATER REMEDIATION? –
*ADRIAN IULIAN BORHAN, ȘTEFANA COJOCARU, MIRCEA PALAMARU, ALEXANDRA RALUCA
IORDAN*

5. LA DYNAMIQUE DU PROCESSUS DE SORBATION **DES COMPOSES D'AROME** DU VIN
MODELE A TRAVERS LE BOIS DE CHENE DANS UN SYSTEME DE MINI-FUT –
COVACI ECATERINA, SCLIFOS ALIONA

6. IN VITRO AND IN VIVO STUDIES OF TWO SIMULTANEOUS INTERCALATED DRUGS
INTO LAYERED DOUBLE HYDROXIDES – *MIHAELA SILION, MARIA CELINA ALEXANDRICA,
MARCEL IONEL POPA*



7. KINETIC MODELING OF GROUND WATER DENITRIFICATION ON A NITRATE-SELECTIVE ION EXCHANGE RESIN – *ADRIANA BURLACU, DENISA NISTOR, NICOLETA PLATON, ILIE SIMINICEANU*

8. VARIATION DE LA CONCENTRATION DES SUBSTANCES BIOLOGIQUES ACTIVES DU **CEPAGE AUTOCHTONE RARĂ NEAGRĂ AU COURS DU PROCESSUS TECHNOLOGIQUE** – *ECATERINA COVACI, NATALIA VLADEI*

9. ADSORPTION OF COPPER IONS FROM AQUEOUS SOLUTION BY MAGNETIC CHITOSAN COMPOSITE: THERMODYNAMIC AND KINETIC STUDIES – *ALINA IBANESCU, DOINA HRIȚCU, MIHAELA SILION, MARCEL IONEL POPA*

10. **YOUNG RED WINE PRODUCED FROM RARĂ NEAGRĂ LOCAL GRAPE VARIETIE IN MICRO WINERY CONDITIONS AT TECHNICAL UNIVERSITY OF MOLDOVA** – *NICOLETA CHIROSCA, ECATERINA COVACI*

11. RETENTION OF PYRENE ON FUNCTIONALIZED ANIONIC CLAYS – *MĂDĂLINA-ȘTEFANIA PÎRVAN, DIANA MIRILĂ, LAURANCE PIRAULT-ROY, MOHAMED AMINE DIDI, ILEANA DENISA NISTOR*

12. COMPARATIVE EVALUATION OF CONVENTIONAL EXTRACTION TECHNIQUES USED TO OBTAIN CRUDE EXTRACTS FROM SPONTANEOUS FLORA OF MOLDOVA WITH BIOINSECTICIDE ACTIVITY – *GABRIEL - MIHĂIȚĂ DARABAN, LĂCRĂMIOARA RUSU, CARMEN ZAHARIA, DANIELA ȘUTEU*

13. LIGNOCELLULOSIC WASTES AS BIOMASS FEEDSTOCKS FOR SECOND-GENERATION ETHANOL PRODUCTION – *MAAROUF ABDOU ALIO, OANA CRISTINA ȚUGUI, LĂCRĂMIOARA RUSU, AGNES PONS, CHRISTOPHE VIAL*

14. SYNERGETIC ADSORPTION AND PHOTOCATALYTIC DEGRADATION OF MO: LOW TEMPERATURE MESOPOROUS NiFe₂O₄ THE FUTURE IN WATER REMEDIATION? – *ADRIAN IULIAN BORHAN, ȘTEFANA COJOCARU, MIRCEA PALAMARU, ALEXANDRA RALUCA IORDAN*

15. DETECTION OF ADULTERATED HONEY BASED ON ROMANIAN STANDARDIZED METHODS – *MIHAELA EMANUELA CRACIUN, OANA CRISTINA PARVULESCU, ANDREEA CRISTINA DONISE*

16. USING OF EGGHELL POWDER FOR REMOVAL OF POLLUTANTS FROM WASTEWATERS – *NICOLETA PLATON, VASILICA-ALISA ARUȘ, ANA-MARIA GEORGESCU, ANDREEA MUSCĂ, ILEANA DENISA NISTOR*

17. VALORIZATION OF GRAPE POMACE FOR OBTAINING FORTIFIED INNOVATIVE PRODUCT WITH HONEY – *ELENA MIRELA SUCEVEANU, IRINA CLAUDIA ALEXA, LUMINIȚA GROSU, IRINA OANA PATRICIU, ADRIANA LUMINIȚA FÎNARU*

18. HYDRODYNAMICS OF THE ANAEROB REACTOR. OPTIMIZATION FOR ENHANCING BIOGAS QUANTITY – *CASEN PANAITESCU, M. P. PETRESCU*

19. USING OF EISENIA SPP. FOR ASSESSING THE TOXICITY OF SOME CATEGORY OF WASTES PRODUCED BY SEWAGE TREATMENT PLANTS – *DUMITRA RĂDUCANU, IOAN VIOREL RAȚI*

20. THE EFFECTS OF NICOTINE INFLUENCE ON THE EMBRYONIC DEVELOPMENT AT DANIO RERIO (HAMILTON, 1822) – *IONUȚ-DANUȚ COSTACHE, MIGUEL OLIVEIRA, DOREL URECHE*

21. STUDIES ON THE REMOVAL OF PERSISTENT ORGANIC POLLUTANTS BY ADSORPTION USING DIFFERENT TYPES OF BIOMASS – *MAROUANE HLIAL, DIANA-CARMEN MIRILĂ, ILEANA-DENISA NISTOR, LĂCRĂMIOARA RUSU, CHRISTOPHE VIAL*

22. STUDY OF THE FISH COMMUNITIES IN THE BASIN OF BERHECI RIVER (BÂRLAD RIVER TRIBUTARY, ROMANIA) – *DOREL URECHE, MĂDĂLINA SION, CAMELIA URECHE*

23. **INTERCALATION OF CATIONIC CLAYS WITH B-CYCLODEXTRINS AND THEIR USES IN OENOLOGY** – *ANDREEA HORTOLOMEU, DIANA-CARMEN MIRILĂ, NICOLETA PLATON, ILEANA-DENISA NISTOR*



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24. BIOACCUMULATION OF HEAVY METALS IN WATER, SEDIMENTS AND FISH TISSUES –
BOGDAN-IOAN BONTAȘ, DIANA CARMEN MIRILĂ, GABRIEL GRIȚCU, DOREL URECHE

25. REMOVAL OF PERSISTENT POLLUTANTS USING UNCONVENTIONAL MATERIALS –
IMAD BATAHI, DIANA-CARMEN MIRILĂ, ILEANA- DENISA NISTOR, LĂCRĂMIOARA RUSU,
CHRISTOPHE VIAL

26. CHEMICALLY MODIFIED CATIONIC CLAY USED FOR THE REMOVAL OF FOOD DYE –
SUNSET YELLOW FCF- – **DIANA-CARMEN MIRILĂ, MADALINA-ȘTEFANIA PÎRVAN, ANDREEA**
HORTOLOMEU, NICOLETA PLATON, ILEANA- DENISA NISTOR, MOHAMED AMINE DIDI,
ABDELKRIM AZZOUZ

27. SIGNIFICANT ELIMINATION OF A HARMFUL WATER POLLUTANT OVER TiO_2
CATALYST AND UV IRRADIATION – **LIDIA FAVIER, ALEXANDRA LASLAU, ANDREI IONUȚ**
SIMION, LĂCRĂMIOARA RUSU

28. CHARACTERIZATION OF AL-PILLARED CLAYS AS POSSIBLE ADSORBENTS FOR
AMMONIA RETENTION – **GABRIELA MUNTIANU, ANA MARIA GEORGESCU, NICOLETA PLATON,**
VASILICA ALISA ARUȘ, ILEANA DENISA NISTOR, GHEORGHÎȚA JINESCU

29. INFLUENCE OF HEAT TREATMENT ON THERMAL STABILITY OF CHEMICAL MODIFIED
CLAYS – **ANA-MARIA GEORGESCU, FRANCOISE NARDOU, CLAUDE PENOT, GHEORGHE**
BRABIE, NICOLETA PLATON, VASILICA ALISA ARUȘ, GABRIELA MUNTIANU, ILEANA DENISA
NISTOR

30. MATHEMATICAL MODELLING OF CONGO RED ADSORPTION ON ACTIVATED CARBON
PREPARED FROM BY-PRODUCTS OF FRUITS PROCESSING INDUSTRY – **CRISTINA GABRIELA**
GRIGORAȘ, ANDREI IONUȚ SIMION, LIDIA FAVIER, LUCIAN GAVRILĂ

31. THE ANALYSIS OF BISTRITA RIVER SEDIMENTS FOR THE USE OF ITS NUTRITIONAL
VALUES IN AGRICULTURE – **SIMONA ANDREI, DENISA ILEANA NISTOR, IOAN-VIOREL RATI**

32. SYNTHESIS OF ANIONIC CLAY MINERALS BY CO-PRECIPITATION METHOD – **VASILICA**
ALISA ARUȘ, ILEANA DENISA NISTOR, ANA-MARIA GEORGESCU, NICOLETA PLATON,
GABRIELA MUNTIANU, NICOLETA VARTOLOMEI, ALINA MIHAELA MOROI, GHEORGHÎȚA
JINESCU

33. EMULSIONS OF BEESWAX - LAVENDER OIL: CHARACTERISTICS AND PRELIMINARY
ANALYSIS FOR USE IN MANUFACTURING OF VALUE ADDED TEXTILES IN AROMATHERAPY
AND SKIN CARE BENEFITS – **CARMEN ZAHARIA, ANGELA DĂNILĂ, EMIL IOAN MUREȘAN,**
DANIELA ȘUTEU



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