



“VASILE ALECSANDRI” UNIVERSITY OF BACAU, ROMANIA
FACULTY OF ENGINEERING
“GHEORGHE ASACHI” UNIVERSITY OF IAȘI, ROMANIA
POLITEHNICA UNIVERSITY OF BUCHAREȘT, ROMANIA
ROMANIAN ACADEMY OF AGRICULTURAL AND FORESTRY SCIENCES
“GHEORGHE IONESCU – ȘIȘEȘTI”
POLITECNICO UNIVERSITY OF TORINO, ITALY
“ANGEL KANCHEV” UNIVERSITY OF RUSE, BULGARIA
WARSAW UNIVERSITY OF TECHNOLOGY, POLAND
UNIVERSITY OF CADIZ, SPAIN
ROMANIAN ASSOCIATION OF MANAGERS AND ECONOMIC ENGINEERS
THE ROMANIAN ENVIRONMENT ASSOCIATION – 1998 (ARM)



Consiliul
Județean
Bacău



The 19th International Conference of Constructive Design and Technological Optimization in Machine Building Field

OPROTEH 2024

PROGRAM

BACAU
MAY 22-24, 2024



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K. Jamrozak, Wroclaw University of Science and Technology, Poland	V. Zichil - "Vasile Alecsandri" University of Bacau, Romania





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Lect.Ph.D. Viorel Ionel BANU





CONFERENCE PROGRAM

WEDNESDAY 22 MAY 2024		
17 ⁰⁰ -19 ⁰⁰	Welcome & Registration	Building D Central hall, first floor
19 ⁰⁰ -20 ³⁰	Dinner	"Vasile Alecsandri" University of Bacau Restaurant
THURSDAY 23 MAY 2024		
08 ⁰⁰ -10 ⁰⁰	Welcome & Registration	Building D Central hall, first floor
10 ⁰⁰ -10 ³⁰	Conferences official opening Welcome messages of the organizing committee	"Vasile Alecsandri" University of Bacau AULA
10 ³⁰ -12 ⁰⁰	Plenary lectures Goals and expectation for University and Industry	"Vasile Alecsandri" University of Bacau AULA
12 ⁰⁰ -12 ³⁰	Coffee break	Central hall, first floor
12 ³⁰ -13 ³⁰	Plenary lectures Goals and expectation for University and Industry	"Vasile Alecsandri" University of Bacau AULA
13 ³⁰ -15 ⁰⁰	Lunch	"Vasile Alecsandri" University of Bacau Restaurant
15 ⁰⁰ -18 ⁰⁰	Section lectures and Poster sessions	Buildings B/D and Central hall
15 ⁰⁰ -17 ⁰⁰	Workshop, REPowerEU. How can we have secure and sustainable energy at affordable prices. – Europe Direct	Building B Hall B11
20 ⁰⁰	Gala Diner	EMD Restaurant
FRIDAY 24 MAY 2024		
09 ⁰⁰ – 11 ⁰⁰	Section lectures and Poster sessions	Buildings D Central hall
11 ⁰⁰ – 11 ³⁰	Coffee break	Buildings B/D and Central hall
11 ³⁰ – 12 ⁰⁰	Final discussion and future perspective	Buildings B/D
11 ³⁰ – 13 ⁰⁰	Faculty research laboratories visit	Buildings B/D
14 ⁰⁰	Departure of participants	





Welcome to the 19th International Conference of Constructive Design and Technological Optimization in Machine Building Field

*“VASILE ALECSANDRI” UNIVERSITY OF BACĂU
FACULTY OF ENGINEERING*

PLENARY LECTURES

GOALS AND EXPECTATION FOR UNIVERSITY AND INDUSTRY

THURSDAY 23 MAY 2024 10³⁰ – 13⁰⁰

**CHAIRPERSONS: PROF. VALENTIN NEDEFF
PROF. CAROL SCHNAKOVSKY
ASSOC.PROF.PH. D. MIRELA PANAINTE-LEHĂDUS**

- 1. *RECOVERY OF SECONDARY PRODUCTS – A WAY TO INCREASE THE SUSTAINABILITY OF THE AGRO-INDUSTRIAL***
RODICA STURZA
- 2. *ORGANIC WASTE VALORIZATION THROUGH ANAEROBIC PROCESSES: ADVANCES AND NEW TRENDS***
CHRISTOPHE VIAL
- 3. *EVOLUTION OF ROMANIAN AND HUNGARIAN RENEWABLE ELECTRICAL ENERGY PRODUCTION***
RÓBERT ISTÓK
- 4. *INVESTIGATIONS INTO THE MATERIAL CHARACTERISTICS OF SELECTED PLASTICS MANUFACTURED USING SLA-TYPE ADDITIVE METHODS***
DARIUSZ PYKA
- 5. *BIODEGRADABLE POLYMERS - ANALYSIS OF THE MECHANICAL AND THERMAL PROPERTIES***
SIMONA-NICOLETA MAZURCHEVICI
- 6. *AEROSTAR BACAU***
- 7. *DEDEMAN BACAU***
- 8. *AGRICOLA BACAU***



Welcome to the 19th International Conference of Constructive Design and Technological Optimization in Machine Building Field

OPROTEH 2024



SECTIONS CONFERENCES

- A. Optimization of Manufacturing Processes and Systems & Computer Aided Design and Manufacturing
- B. Optimization of Technologies and Equipment from Process Industries
- C. Optimization in Environmental Engineering and Environmental Protection
- D. Mechatronics & Robotics
- E. Economic Engineering
- F. Chemical & Food Engineering
- G. Industrial Power Engineering & Computer Science



In the case of all Conference Sections, the POSTERS can be visited in the period 23-24 MAY on the Central Hall (Building D).



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

BUILDING B HALL BI29

THURSDAY 23 MAY 2024 15⁰⁰ – 18⁰⁰

FRIDAY 24 MAY 2024 09⁰⁰ – 11⁰⁰

**CHAIRPERSONS: PROF.PH.D. DUMITRU NEDELCU
PROF.PH.D. ABDERRAHIM BELLOUFI
ASSOC.PROF.PH.D CONSTANTIN CARAUSU**

- A.1. DEFORMATION OF MATERIALS IN PRESENCE OF DIFFERENT CORROSIVE ENVIRONMENTS**
OLGA CHIRCIU, ANDREI-VLAD CIUBOTARIU, COSMIN-CONSTANTIN GRIGORAS, ANA-MARIA ROSU, VALENTIN ZICHIL
- A.2. EXPERIMENTAL INVESTIGATION ON THE IMPACT OF BURNISHING ON THE HARDNESS OF MACHINED MATERIALS**
MOURAD ABDELKRIM, ABDERRAHIM BELLOUFI, IMANE REZGUI
- A.3. ENHANCING EFFICIENCY IN ELECTRICAL DISCHARGE MACHINING: PREDICTIVE MODELING OF MACHINING PARAMETERS**
ABDERRAHIM BELLOUFI, MOURAD ABDELKRIM, IMANE REZGUI, MOURAD MEZOU DJ
- A.4. OPTIMIZING MULTI-PASS TURNING: A HYBRID APPROACH FOR DETERMINING OPTIMAL CUTTING PARAMETERS**
IMANE REZGUI, ABDERRAHIM BELLOUFI, MOURAD ABDELKRIM
- A.5. ENHANCING TRIBOLOGICAL PERFORMANCE OF ALUMINUM MATRIX HYBRID COMPOSITES: FUZZY LOGIC PREDICTION APPROACH**
IMANE REZGUI, ABDERRAHIM BELLOUFI, MOURAD ABDELKRIM
- A.6. IMPACT OF DIGITAL TECHNOLOGIES ON STUDENTS FROM INDUSTRIAL ENGINEERING DOMAIN**
IONEL RAVEICA, IONEL OLARU
- A.7. A STUDY OF A FLUID FLOW SIMULATION THROUGH A JET EJECTOR SYSTEM USED IN VARIOUS INDUSTRIAL APPLICATIONS**
IONEL OLARU, IONEL RAVEICA
- A.8. A REVIEW OF THE STRATEGIES USED TO INCREASE THE ACCURACY OF SPIFED PARTS**
MARIA-CRINA RADU, BOGDAN-ALEXANDRU CHIRITA, EUGEN HERGHELEGIU, NICOLAE CATALIN TAMPU
- A.9. SPECIFIC ISSUES WHEN MILLING PARTS WITH LOW RIGIDITY - A REVIEW**
PETRICA RADU, CAROL SCHNAKOVSKY, NICOLAE CATALIN TAMPU, EUGEN HERGHELEGIU
- A.10. STUDY OF INFLUENCE OF THE PROCESS PARAMETERS ON THE QUALITY OF ABRASIVE WATERJET MACHINED SURFACES**
EUGEN HERGHELEGIU, MARIA-CRINA RADU, CAROL SCHNAKOVSKY, BOGDAN-ALEXANDRU CHIRITA, NICOLAE CATALIN TAMPU, BOGDAN NITA, PETRICA RADU
- A.11. USING 3D PRINTING IN MANUFACTURING SPECIFIC TOOLS FOR STRETCH FORMING PROCESSES**
VLAD-ANDREI CIUBOTARIU, COSMIN-CONSTANTIN GRIGORAS, BOGDAN-ALEXANDRU CHIRITA



- A.12. THE IMPACT OF DIGITALIZATION ON ENGINEERING EDUCATION: A COMPREHENSIVE ANALYSIS**
GÜLŞEN AKMAN
- A.13. EXPERIMENTAL STUDY ON THE INFLUENCE OF PROCESS PARAMETERS ON SURFACE QUALITY IN EDM**
GHIORGHE OANA GEORGETA, CAROL SCHNAKOVSZKY
- A.14. THE IMPORTANCE OF CRYOGENIC ASSISTED MILLING ON SURFACE QUALITY OF AEROSPACE ALLOYS**
BOGDAN NITA, CAROL SCHNAKOVSZKY, RALUCA IOANA TAMPU, EUGEN HERGHELEGIU, MARIA-CRINA RADU, BOGDAN-ALEXANDRU CHIRITA, PETRICA RADU, NICOLAE CATALIN TAMPU
- A.15. INFLUENCE OF TEMPERATURE OF THE WORKPIECE PROCESSED BY MILLING ON SURFACE ROUGHNESS**
BOGDAN NITA, CAROL SCHNAKOVSZKY, RALUCA IOANA TAMPU, EUGEN HERGHELEGIU, MARIA-CRINA RADU, BOGDAN-ALEXANDRU CHIRITA, PETRICA RADU, NICOLAE CATALIN TAMPU
- A.16. INFLUENCE OF MACHINING PARAMETERS ON PARTICLES EMISIONS DURING ELECTRICAL DISCHARGHE MACHINING**
NICOLAE CATALIN TAMPU, EUGEN HERGHELEGIU, RALUCA IOANA TAMPU, CAROL SCHNAKOVSZKY, MARIA-CRINA RADU, BOGDAN-ALEXANDRU CHIRITA, PETRICA RADU, BOGDAN NITA
- A.17. INFLUENCE OF CUTTING PARAMETERS ON RESIDUAL STRESS DISTRIBUTION IN SURFACE LAYER**
NICOLAE CATALIN TAMPU, BOGDAN-ALEXANDRU CHIRITA, RALUCA IOANA TAMPU, EUGEN HERGHELEGIU, BOGDAN NITA, ABDERRAHIM BELLOUFI, MOURAD ABDELKRIM
- A.18. THE ROLE OF TECHNICAL EXPERTISE IN ESTABLISHING THE DETERMINING FACTORS IN THE OCCURRENCE OF CAR ACCIDENTS**
NICOLAE NAVODARIU
- A.19. STUDY OF ELECTRODE WEAR IN ELECTRICAL DISCHARGE MACHINING OF STEEL ALLOYS**
BOGDAN-ALEXANDRU CHIRITA, OANA GEORGETA GHIORGHE, MARIA-CRINA RADU, CAROL SCHNAKOVSZKY, NICOLAE CATALIN TAMPU, BOGDAN NITA, EUGEN HERGHELEGIU
- A.20. PARTICULARITIES OF TITANIUM ALLOYS TURNING FOR AERONAUTICS INDUSTRY**
ELENA MIHAELA COT, BOGDAN-ALEXANDRU CHIRITA, EUGEN HERGHELEGIU, MARIA-CRINA RADU, NICOLAE CATALIN TAMPU, BOGDAN NITA
- A.21. BIODEGRADABLE POLYMERS - ANALYSIS OF THE MECHANICAL AND THERMAL PROPERTIES**
SIMONA-NICOLETA MAZURCHEVICI, DUMITRU NEDELCU, CONSTANTIN CARAUSU
- A.22. THE USE OF LINEAR DISCRIMINANT ANALYSIS TO DETERMINE PRODUCTION LOCATION OF FLAT STEEL SHEETS**
GÜLŞEN AKMAN, ALI IHSAN BOYACI, DENIZ DURMAZ
- A.23. STUDY ON THE MACHINING OF ALUMINIUM ALLOY**
VIRGIL GABRIEL TEODOR, RAZVAN SEBASTIAN CRACIUN, VIOREL PAUNOIU, NICUSOR BAROIU



B. OPTIMIZATION OF TECHNOLOGIES AND EQUIPMENT FROM PROCESS INDUSTRIES

BUILDING D HALL DP12

THURSDAY 23 MAY 2024 15⁰⁰ – 18⁰⁰

FRIDAY 24 MAY 2024 09⁰⁰ – 11⁰⁰

**CHAIRPERSONS: PROF.PH.D KRZYSZTOF JAMROZIAK
ASSOC.PROF.PH.D CIHAN BAYINDIRLI
ASSOC.PROF.PH.D MOSNEGUTU EMILIAN**

B.1. THE GEOMETRICAL STUDY OF A GRIPPING AND LIFTING SYSTEM FOR A MEDIUM MASS LOAD

EMILIAN MOSNEGUTU, MARCIN JASIŃSKI, MIRELA PANAINTE-LEHĂDUȘ, CLAUDIA TOMOZEI, OANA IRIMIA, ANDRIȘCA MARTIN AURELIAN

B.2. INNOVATION RESEARCH BENCH FOR TESTING MEDICAL EQUIPMENT INTENDED FOR OXYGEN THERAPIES

PIOTR WINIARSKI, MICHAŁ MAKOWSKI

B.3. IDENTIFYING THE MOTION OF A CRUSHER DRIVE MECHANISM USING ROBERTS SIMULATION SOFTWARE

PAULA GRETA VRÎNCEANU, PETRICA TIBULEAC

B.4. SOFTWARE TECHNOLOGY APPLIED IN MECHANISMS

ADRIAN OLARU, ELLIPS MASEHIAN, SERBAN OLARU, MIHAI NICULAE

B.5. STRESSES AND DEFORMATIONS IN THE SEMI-ELLIPSOIDAL LID OF A SATURATED VAPOUR STORAGE VESSEL

MIHAI-ALIN PETRE, NICOLETA SPOREA, GHEORGHITA TOMESCU

B.6. STUDY ON THE EXPERTISE OF PRESSURE VESSELS

LUMINIȚA BIBIRE, ALINA-MIHAELA MOROI, CRISTINA BELECCIU, BOGDAN COSTEL APETR

B.7. LAYERS OBTAINED BY HYBRID METHODS OF THERMAL SPRAYING - USED IN THE CONSTRUCTION OF EQUIPMENT FOR PROCESS INDUSTRIES

GABRIELA TOMA, CODRIN-DUMITRU CÎRLAN, EDMOND LEVĂRDĂ, MARIUS PETCU, STEFAN LUCIAN TOMA

B.8. CHOOSING THE APPROPRIATE TYPE OF MAINTENANCE STRATEGY FOR AN MECHANICAL EQUIPMENT

ANCA-MĂDĂLINA DUMITRESCU, NICOLETA SPOREA, ION DURBACĂ

B.9. STUDY REGARDING NONLINEAR CONTROL SYSTEM FOR DISTILLATION COLUMN

LUMINIȚA BIBIRE, GRETA PAULA VRÎNCEANU, ALINA-MIHAELA MOROI, TEODORA PALAGHITA

B.10. APPLICATION OF THE RISK-BASED INSPECTION (RBI) CONCEPT FOR THE EQUIPMENT AND SPECIFIC FACILITIES OF AN OIL PLATFORM

GEORGE-CONSTANTIN GROZOIU, ION DURBACĂ, NICOLETA SPOREA, ANCA-MĂDĂLINA DUMITRESCU, GHEORGHITA TOMESCU



- B.11. ASSESSMENT USING CAESAR II PROGRAM, OF THE POTENTIAL OF A PIPELINE AFFECTED BY CORROSION, TO REMAIN IN OPERATION**
COSTEL-DORINEL ULERIU, LUMINIȚA BIBIRE
- B.12. OPTIMIZING METHODS FOR THE MIXING PROCESS IN FOOD PRODUCTION**
ANCA ANDREEA COȚA, DANIELA PAULA GUTUNOI, CORNELIA VOICU
- B.13. WASTE HEAT RECOVERY FROM CAPSTONE C30 FLUE GAS IN RANKINE CYCLE WITH ORGANIC FLUID. PERFORMANCE AND ECONOMIC EVALUATION**
ȘTEFAN DOLHAȘCANU, CLAUDIU-MIHAI GEMĂNARU, TRAIAN CIUCHEȘ, GEORGE TOMA, DAN-TEODOR BĂLĂNESCU
- B.14. DEGRADATION PROCESSES AND REPAIR TECHNOLOGIES TO IMPROVE THE PV PANELS OPERATIONAL LIFESPAN**
CRISTINA BELECCIU, ILIE BĂLAN, ION MOCANU, RAREȘ CÂMPEANU, SEBASTIAN FLORIN VINTEA, ANA GEORGIANA LUPU, ARISTOTEL POPESCU
- B.15. A NEW APPROACH ON SEALING WITH SOFT GASKETS AND PRE-SEAL**
ELENA CĂTĂLINA CATANA, IONUȚ CHERCIU, ANA-MARIA CIOBANU
- B.16. CAD DESIGN AND WIND TUNNEL TESTS OF A PASSIVE FLOW CONTROL PART FOR IMPROVEMENT OF FLOW SEPARATION AND AERODYNAMIC DRAG FORCE ON A GROUND VEHICLE MODEL**
CIHAN BAYINDIRLI, MEHMET ÇELİK
- B.17. MULTI-LAYER POLYETHYLENE FILM IN BALLISTIC PROTECTION AGAINST RIFLE AMMUNITION – NUMERICAL APPROACH**
MACIEJ ROSZAK, MIKOŁAJ KAZIMIERCZAK, DARIUSZ PYKA, NARCIS BARSAN, KRZYSZTOF JAMROZIAK, MIROSLAW BOCIAN
- B.18. STUDY REGARDING THE OPTIMISATION OF MODERN HEATING SYSTEMS FOR INDOOR SPACES**
PAULICĂ MINCULEASA, LUMINIȚA BIBIRE
- B.19. SELECTION OF ROAD SECTIONS FOR TESTING THE HIGH MOBILITY WHEELED VEHICLE**
MARIUSZ KOSOBUDZKI
- B.20. ASPECTS REGARDING THE WEAR OF DIAMOND DISCS WHEN GRINDING MINERAL MATERIALS**
VALEA PETRE, DUMITRU ȘTEFAN
- B.21. APPLICATIONS OF BIHARMONIC MAPS IN MATERIALS SCIENCE**
RAREȘ-MIRCEA AMBROSIE, VALER NIMINEȚ
- B.22. CONSTRUCTIVE DESIGN ELEMENTS OF SMALL DIMENSION CYCLONES – CYCLONETTES**
RADU I. IATAN, LINA ANCA DUMITRESCU, DANIEL BESNEA, MELANIA CORLECIUC (MITUCĂ), GHEORGHE COSMIN CIOCOIU
- B.23. STUDIES AND RESEARCH ON HOW TO DETERMINE SPECIFIC MATHEMATICAL MODELS OF THE CUTTING PROCESS**
MIRELA PANAINTE-LEHĂDUȘ, EMILIAN MOSNEGUTU, VALENTIN NEDEFF, CLAUDIA TOMOZEI, NARCIS BARSAN, OANA IRIMIA, DANA CHITIMUS



C. OPTIMIZATION IN ENVIRONMENTAL ENGINEERING AND ENVIRONMENTAL PROTECTION

BUILDING D HALL DP12

THURSDAY 23 MAY 2024 15⁰⁰ – 18⁰⁰

FRIDAY 24 MAY 2024 09⁰⁰ – 11⁰⁰

**CHAIRPERSONS: PROF.PH.D. GABRIEL MURARIU
PROF.PH.D. MARIUSZ KOSOBUDZKI
ASSOC.PROF.PH.D. MIRELA PANAINTE-LEHĂDUȘ**

- C.1. TRANSLOCATION OF HEAVY METALS FROM SOILS IN INDUSTRIAL AREAS INTO PLANT SPECIES - BELONGING TO THE TYPHACEAE FAMILY
ALEXANDRA-DANA CHITIMUS, VALENTIN NEDEFF, CRISTIAN RADU, EMILIAN MOSNEGUTU, NARCIS BARSAN, ALINA-MIHAELA MORO¹, DENISA PITICARU
- C.2. HEXANARY CO-FE-NI-MN-ZN-CU SINGLE SPINEL PHASE AS COMPLEX HETEROSTRUCTURED MAGNETIC NANOMATERIAL FOR PHOTOCATALYTIC WATER SPLITTING
DANIEL GHERCA
- C.3. DEVELOPMENT OF ALIOVALENT DOPED SRTIO₃ ADSORBENT FOR CONGO RED REMOVAL: IMPACT OF DYE CONCENTRATION
DANIEL GHERCA
- C.4. CONTRIBUTION OF MULTIVARIATE ANALYSIS AND GEOSTATISTICS TO THE STUDY OF THE PHYSICOCHEMICAL AND METALLIC QUALITY OF THE WATERS FROM THE LAKE TOGO-LAGOON OF ANEHO COMPLEX (SOUTH EAST OF TOGO)
KAMILOU OURO-SAMA, HODABALO DHEOULABA SOLITOKE, GNON TANOUAY, NARCIS BARSAN, SADIKOU AGBERE, FÈGBAWÈ BADANARO, VALENTIN NEDEFF, KISSAO GNANDI
- C.5. CHEMICAL COMPOSITION (NUTRIENTS AND XENOBIOTICS) OF RHYNCOPHORUS PHOENICIS (FABRICIUS, 1801) (CURCULIONIDAE) AND ORYCTES MONOCEROS (OLIVIER, 1789) (SCARABAEIDAE), TWO COLEOPTERA CONSUMED IN TOGO
FÈGBAWÈ BADANARO, MAMATCHI MELILA, KAMILOU OURO-SAMA, KOAMI AMEYRAN, NARCIS BARSAN, VALENTIN NEDEFF
- C.6. DETECTING AND REGULATING PFSA CONTAMINATION IN WATER: ADVANCEMENTS IN LC-MS/MS METHODOLOGY
FLORENTINA LAURA CHIRIAC, FLORINELA PIRVU, IULIANA PAUN, ANTONIA IOANA CIMPEAN, VASILE ION IANCU
- C.7. BIOCHEMICAL RESPONSE - A USEFUL TOOL FOR ASSESSING THE EFFECTS OF SOME PETROLEUM PRODUCTS ON WHEAT (TRITICUM AESTIVUM)
ROMICĂ CREȚU, GABRIEL MURARIU, ROMANA DRASOVEAN, SIMONA CONDURACHE-BOTA
- C.8. MATHEMATICAL OPTIMIZATION METHODS FOR THE TREATMENT OF DOMESTIC WASTEWATER USING THE BSM-2 TYPE MODEL - TWO-DIMENSIONAL POLYNOMIAL APPROACH WITH MIXED TERMS AND THE VALIDATION OF THE OBTAINED MODELS
GABRIEL MURARIU, ROMICĂ CREȚU, ROMANA DRASOVEAN, SIMONA CONDURACHE-BOTA



- C.9. THE MICROCLIMATE OF RESIDENTIAL BUILDINGS: CASE STUDY**
SIMONA CONDURACHE-BOTA, ROMANA-MARIA DRASOVEAN GABRIEL MURARIU, ROMICĂ CREȚU
- C.10. PARTICULATE MATTER AIR POLLUTION IN ROMANIA: SPATIO-TEMPORAL EVOLUTION AND SOURCES**
ROMANA-MARIA DRASOVEAN, SIMONA CONDURACHE-BOTA, GABRIEL MURARIU, ROMICA CRETU
- C.11. EVALUATION OF THE MUNICIPAL WASTE MANAGEMENT SYSTEM IN VIEW OF THE PERCEPTION OF THE POPULATION**
EMILIAN MOSNEGUTU, GRZEGORZ PRZYDATEK, DANA-ALEXANDRA CHITIMUS, CĂTĂLIN PLĂCINTĂ, NARCIS BÂRSAN, CLAUDIA TOMOZEI, FLORIN NEDEFF
- C.12. STUDIES REGARDING THE EXPLOITATION OF ARONIA MELANOCARPA SPECIES, IN ECOLOGICAL AGRICULTURAL HOLDINGS**
MIHAELA BARTICEL, CATALIN HANCU, DUMITRA RADUCANU, ANA MARIA GEORGESCU, DANA CHITIMUS
- C.13. INFLUENCE OF BIOFERTILIZERS IN THE GERMINATION OF SEEDS AND THE DEVELOPMENT OF BELL PEPPER SEEDLINGS (CAPSICUM ANNUUM L.)**
CLAUDIA BALAITA, MARIANA CALARA, DAN IOAN AVASILOAIE², TINA OANA CRISTEA, DUMITRA RADUCANU
- C.14. PERCEPTIONS AND PRIORITIES IN SUSTAINABLE DEVELOPMENT: AN ANALYSIS OF PUBLIC OPINION IN BACAU COUNTY**
CLAUDIA TOMOZEI, CĂTĂLIN MARIAN PLĂCINTĂ, EMILIAN MOȘNEGUTU, VALENTIN NEDEFF, OANA IRIMIA, MIRELA PANAINTE-LEHADUS, FLORIN MARIAN NEDEFF, NARCIS BARSAN, DANA CHITIMUS
- C.15. LONG RANGE TRANSPORT ANALYSIS BASED ON EASTERN ATMOSPHERIC CIRCULATION AND ITS IMPACT TO THE DUST EVENT OVER ECOTOXICITY ASSESSMENT OF SOME BIOFERTILIZERS USED IN ORGANIC FARMING BY TEST ORGANISMS**
ALIN GABRIEL IOSUB, IONUT VIOREL STOICA, DIANA MAFTEI, ANA-MARIA GEORGESCU, CLAUDIA UNGUREANU, DUMITRA RADUCANU
- C.16. NEW ASPECTS ON TEXTILE REACTIVE DYE REMOVAL USING BIOCHAR-BASED ADSORBENT**
CRINUTA-LARISA ORTOVAN, MARIUS-ALEXANDRU AFRASINEI, CARMEN ZAHARIA
- C.17. APPLICATION OF COMMERCIAL HYBRID FLOCCULANTS IN TEXTILE WASTEWATER TREATMENT**
MARIUS-ALEXANDRU AFRASINEI, CARMEN ZAHARIA
- C.18. STRATEGIES FOR SUSTAINABLE ECONOMY IN OPTIMIZING THE PROCESSES FOR REMOVAL OF THE CBO₅, CCO-CR AND MTS FROM THE USED WATER**
ENIKO GASPARG, OANA IRIMIA
- C.19. THE SYNOPTIC CONTEXT OF SAHARAN DUST EVENT IN THE EASTERN PART OF ROMANIA AT THE END OF MARCH 2024**
COSMINA APETROAIE, ANDREI-ADRIAN DOMOCOȘ, ADRIAN TIMOFTE, DIANA-CORINA BOSTAN



- C.20. VISIBLE-LIGHT PHOTODEGRADATION OF AN EMERGENT PHARMACEUTICAL POLLUTANT: ASSESSING PROCESS EFFICIENCY AND PHYTOTOXICOLOGICAL IMPACT**
MARIA PAIU, LIDIA FAVIER, RALUCA-MARIA HLIHOR, YASSINE JARI, DOINA LUTIC, MARIA GAVRILESCU
- C.21. EXPLORING THE PHOTOCATALYTIC POTENTIAL OF CU-DOPED TITANIUM DIOXIDE NANOMATERIALS FOR THE REMEDIATION OF AN ENDOCRINE DISRUPTOR COMPOUND**
YASSINE JARI, LIDIA FAVIER, MARIA PAIU, MOHAMED CHAKER NECIBI, BOUCHAIB GOURICH, CHRISTOPHE VIAL, AZZEDDIN EL MIDAOU, NICOLAS ROCHE
- C.22. SOME EVALUATION OF ARTIFICIAL LIGHT POLLUTION**
DOINA CAPSA
- C.23. LABORATORY APPLICATIONS OF MUNICIPAL SLUDGE DEWATERING**
NARCIS BARSAN, VALENTIN NEDEFF, KRZYSZTOF JAMROZIAK, DANA CHITIMU¹, MIRELA PANAINTE-LEHADUS, EMILIAN MOSNEGUTU, CLAUDIA TOMOZE¹, OANA IRIMI¹, IOSIF IOJA
- C.24. INTEGRATION OF UV AND OR AOP DISINFECTION PROCESSES AS A PRE-TREATMENT FOR THE OPTIMIZATION OF MEMBRANE FILTRATION PROCESSES OF EFFLUENTS FROM A POULTRY SLAUGHTERHOUSE**
ANDREI ZAHARIA, VALENTIN NEDEFF, NARCIS BARSAN, OANA IRIMIA, MIRELA PANAINTE-LEHADUS
- C.25. THE IMPACT OF POPULATION OCCUPATION ON HOUSEHOLD WASTE MANAGEMENT**
MIHAI VULPE, VALENTIN NEDEFF, EMILIAN MOSNEGUTU, MIRELA PANAINTE-LEHADUS, MARA PANAINTE
- C.26. THE EVOLUTION AT THE EUROPEAN LEVEL OF NOTIFICATIONS WITHIN THE SRAFF, IN THE PERIOD 2020 - 2023, FOR FOOD PRODUCTS THAT EXCEEDED THE LEVEL OF ACRYLAMIDE**
CRISTINA VALENTINA SARION
- C.27. SOLUTIONS FOR THE REHABILITATION OF THE TESLUI RIVER IN ORDER TO ACHIEVE ENVIRONMENTAL OBJECTIVES**
OANA IRIMIA, OCTAVIA VIOREL DIACONU, EMILIAN MOȘNEGUTU, CLAUDIA TOMOZEI, MIRELA PANAINTE-LEHADUS, FLORIN MARIAN NEDEFF, DANA CHITIMUS, NARCIS BARSAN
- C.28. STUDY ON THE MANAGEMENT OF SALT MINING WASTE**
MIRELA PANAINTE-LEHADUS, MIHAILA CLAUDIA-NARCISA, EMILIAN MOȘNEGUTU, VALENTIN NEDEFF, CLAUDIA TOMOZEI, FLORIN MARIAN NEDEFF, OANA IRIMIA, NARCIS BARSAN, DANA CHITIMUS
- C.29. EVALUATION OF EFFECTIVENESS AND FACTORS AND REGRESSION ANALYSIS ON ZINC RECOVERY IN ROTARY KILNS**
DIDEM OZCAN, M. KURSAT KARAOGLAN, MEHMET ÇELİK
- C.30. EVALUATION OF PARASITOLOGICAL AND BIOCHEMICAL PARAMETERS OF URINE AND TWO INFLAMMATORY PARAMETERS OF MEDICAL WASTE INCINERATOR OPERATORS IN TOGO**
SADIKOU AGBERE, KAMILOU OURO-SAMA, GNON TANOUAYI, AMEYO DORKENOO, KISSAO GNANDI
- C.31. THE ANALYSIS OF THE IMPACT OF LOADS SUPERPOSITION ON TECHNICAL STRUCTURES, THE ENVIRONMENT AND LIVING ORGANISMS**
VALERIU V. JINESCU, IONELA M. ROȘU (MARIN), GEORGE JINESCU



C.32. EXPLORING THE VIRTUAL CLASSROOM: A PRACTICAL APPROACH TO BUILD EDUCATIONAL VR APPS WITH UNREAL ENGINE

PETRU-JULIAN GRIGORE

C.33. COMPARATIVE ASSESSMENT OF POLLUTANT EMISSIONS BETWEEN BIOFUEL BRIQUETTES AND CHARCOAL: IMPLICATIONS FOR DOMESTIC COOKING FUEL SELECTION

NGANKO JUNIOR MAIMOU, KOFFI EKOUN PAUL MAGLOIRE, GBAHA PROSPER, TOURE OUSMANE ALPHA, TIOGUE TEKOUNEGNING CLAUDINE, YAO KOUASSI BENJAMIN



D. MECHATRONICS & ROBOTICS

BUILDING D HALL D131

THURSDAY 23 MAY 2024 15⁰⁰ – 18⁰⁰

FRIDAY 24 MAY 2024 09⁰⁰ – 11⁰⁰

**CHAIRPERSONS: PROF.PH.D. VALENTIN ZICHIL
LECTURER PH.D. COSMIN GRIGORAS
LECTURER PH.D. CIUBOTARIU VLAD**

- D.1. OPTICAL PROPERTIES OF THIN LAYERS AND NANOSTRUCTURES WITH ZN AND AL OXIDES**
DRAGOS-IOAN RUSU
- D.2. DEFECT PREDICTION OF DELTA ROBOTS USING MACHINE LEARNING**
DRAGOS-ALEXANDRU ANDRIOAIA, EDUARD POGAR, ALEXANDRU MIRCEA
- D.3. A REVIEW OF PROSTHETIC HAND GEAR TRAINS**
FLORIN-FELIX RĂDUICĂ, IONEL SIMION, IOANA-CĂTĂLINA ENACHE, ANA MARIA MIHAELA RUGESCU, ELENA IONIȚĂ
- D.4. FEATURES OF THE THERMAL AND MASS TRANSFER PROCESS PRESENT IN THE PAPER DRYING PROCESS**
RADU CALIMAN
- D.5. POSSIBILITIES OF HEAT RECOVERY FROM THE STEAM-HOT AIR MIXTURE EVACUATED FROM THE DRYING SIDE OF A PAPER MACHINE**
RADU CALIMAN
- D.6. DESIGN AND OPTIMIZATION OF A MECHATRONIC SOLAR ENERGY CONVERSION SYSTEM**
VLAD-ANDREI CIUBOTARIU, COSMIN-CONSTANTIN GRIGORAȘ
- D.7. CONTROL OF MECHANICAL PROCESSES AS A DEFINING ELEMENT IN THE FIELD OF MECHATRONICS AND MACHINE LEARNING**
VLAD-ANDREI CIUBOTARIU, COSMIN-CONSTANTIN GRIGORAȘ, PETRU-GABRIEL PUIU
- D.8. FINITE ELEMENT ANALYSIS OF A METALLIC EXOSKELETON FOR STRETCH-FORMING. INTEGRATION WITH AN EXISTING HYDRAULIC PRESS**
COSMIN GRIGORAȘ, VALENTIN ZICHIL, ȘTEFAN COȘA, BOGDAN CHIRIȚĂ
- D.9. THE ROLE OF MECHATRONICS SYSTEMS AND AI IN MODERN MILITARY APPLICATIONS**
COSMIN GRIGORAȘ, VALENTIN ZICHIL, ȘTEFAN COȘA, VLAD ANDREI CIUBOTARIU
- D.10. ML USING MULTI-LABEL IMAGE RECOGNITION IN SCRATCH DETECTION ON ALUMINIUM SAMPLES**
COSMIN GRIGORAȘ, VALENTIN ZICHIL, ȘTEFAN COȘA
- D.11. PROPORTIONAL CONTROL OF A EXPERIMENTAL STANDS IN MATERIAL STRENGTH LABORATORIES USING A JOYSTICK**
COSMIN GRIGORAȘ, VALENTIN ZICHIL, ȘTEFAN COȘA, VLAD ANDREI CIUBOTARIU



D.12. THE DIAGNOSTIC SYSTEM OF THE TECHNICAL CONDITION OF A MECHATRONIC ASSEMBLY WITH THE HELP OF LABVIEW

PETRU GABRIEL PUIU, CATALIN OLTEANU

D.13. REVIEW OF THE SMART LOCK SYSTEMS

LILIANA TOPLICEANU

D.14. ADAPTING A REPRAP HELIOS 3D PRINTER FOR SCARA ROBOT FUNCTIONALITY: A REPURPOSING APPROACH

VLAD-ANDREI CIUBOTARIU, PETRU-GABRIEL PUIU, COSMIN-CONSTANTIN GRIGORAȘ



E. ECONOMIC ENGINEERING

BUILDING D HALL D131

THURSDAY 23 MAY 2024 15⁰⁰ – 18⁰⁰

FRIDAY 24 MAY 2024 09⁰⁰ – 11⁰⁰

**CHAIRPERSONS: PROF.PH.D. VALENTIN ZICHIL
ASSOC.PROF.PH.D. CATALIN DROB
ASSIST. PROF.PH.D. IOAN PLEȘCĂU**

- E.1. ASPECTS REGARDING THE ORGANIZATIONAL FUNCTION IN PUBLIC LIBRARIES**
TATIANA PĂNCESCU (VALEA)
- E.2. EUROPEAN APPROACHES TO INDUSTRIAL PROPERTY: A COMPARATIVE ANALYSIS**
LIVIANA ANDREEA NIMINET
- E.3. CIRCULAR ECONOMY INDICATORS OF WASTE MANAGEMENT DOMAIN IN ROMANIA**
LILIANA TOPLICEANU
- E.4. MANAGEMENT AND LEADERSHIP IN THE AREA OF CIRCULAR ECONOMY**
LILIANA TOPLICEANU
- E.5. AN IN-DEPTH ANALYSIS ON THE IMPLICATIONS OF AI ON HR PRACTICES**
COSMIN GRIGORAȘ, IOANA PLEȘCĂU, VALENTIN ZICHIL, CĂTĂLIN DROB
- E.6. ARTIFICIAL INTELLIGENCE IN BANKING: A NEW ERA OF FINANCIAL SERVICES**
IOANA PLEȘCĂU, COSMIN GRIGORAȘ, VALENTIN ZICHIL, CĂTĂLIN DROB
- E.7. AI-SUPPORT IN ORGANIZATIONAL MANAGEMENT**
VALENTIN ZICHIL, COSMIN GRIGORAȘ, CĂTĂLIN DROB, IOANA PLEȘCĂU
- E.8. EXPORTS AND ECONOMIC GROWTH IN ROMANIA**
CATALIN DROB, VALENTIN ZICHIL, COSMIN GRIGORAS, IOANA PLESCAU
- E.9. ANALYSIS OF THE CARBON EMISSIONS TRENDS IN SPAIN, ITALY, GERMANY AND THE UK. A DECOMPOSITION ANALYSIS**
OANA DRIHA
- E.10. NEURAL NETWORKS – MANAGERIAL DECISIONS - KNOWLEDGE MANAGEMENT**
SILVIA CURTEANU, ANDREEA FERARU, NICOLETA ANTON
- E.11. IMPACT OF FOREIGN DIRECT INVESTMENT ON ECONOMIC GROWTH IN ROMANIA**
CATALIN DROB, VALENTIN ZICHIL, COSMIN GRIGORAS, IOANA PLESCAU
- E.12. ENHANCING STATISTICAL CONTROL THROUGH ARTIFICIAL NEURAL NETWORKS**
CATALIN TAMPU, RALUCA IOANA TAMPU, VALENTIN ZICHIL, COSMIN CONSTANTIN GRIGORAS, IOANA PLESCAU, CATALIN DROB
- E.13. FIRMS' PERFORMANCE IN TIMES OF CRISIS: THE EFFECTS OF THE FINANCIAL CRISIS AND THE EFFECTS OF THE COVID-19 PANDEMIC**
IOANA PLESCAU, CATALIN DROB, VALENTIN ZICHIL
- E.14. WHAT DRIVES ENTREPRENEURSHIP? DETERMINANTS OF THE ENTREPRENEURIAL INCENTIVES IN EUROPE**
IOANA PLESCAU, CATALIN DROB, VALENTIN ZICHIL, COSMIN GRIGORAS
- E.15. CIRCULAR ECONOMY AND SUSTAINABILITY BENEFITS FOR BUSINESSES IN ROMANIA**
ANDREEA FERARU, CATALIN DROB



F. CHEMICAL & FOOD ENGINEERING

BUILDING D HALL DP18

THURSDAY 23 MAY 2024 15⁰⁰ – 18⁰⁰

FRIDAY 24 MAY 2024 09⁰⁰ – 11⁰⁰

**CHAIRPERSONS: PROF.PH.D. ALIONA GHENDOV-MOSANU
PROF.PH.D. CONSTANTIN APETREI
PROF.PH.D. ILEANA-DENISA NISTOR**

- F.1. THE INFLUENCE OF NON-CONVENTIONAL METHODS OF OBTAINING BIOLOGICALLY ACTIVE SUBSTANCES FROM JOSTA BERRY**
VIORICA BULGARU, ANGELA GUREV, OLGA SMEREA, ALIONA GHENDOV-MOȘANU
- F.2. PERSPECTIVES FOR THE USE OF LEGUMS AS SUBSTITUTES FOR ANIMAL PROTEINS**
VIORICA BULGARU, MIHAI MAZUR, ILKAY ŞENSOY, RODICA STURZA, ALIONA GHENDOV-MOȘANU
- F.3. THE ANTIOXIDANT POTENTIAL OF LIGNANS EXTRACTED FROM FLAXSEED CAKE BY UNCONVENTIONAL METHOD**
ANGELA GUREV, VERONICA DRAGANCEA, IURIE SCUTARU
- F.4. MANUFACTURING PROCEDURE OF SPARKLING WINES IN PRESSURE VESSELS**
ANATOL BALANUȚĂ, ALIONA SCLIFOS, ECATERINA COVACI, DAN ZGARDAN
- F.5. FUNCTIONAL BISCUITS ENRICHED WITH GRAPE SEED FLOUR**
ECATERINA COVACI, NADEJDA BOTEZATU, OLGA BOISTEAN
- F.6. EFFECTS OF REPLACEMENT OF CITRIC ACID WITH ACETIC ACID ON THE QUALITY OF VEGAN GUMMY CANDY**
ALINA BOIȘTEAN, AURICA CHIRSANOVA, NATALIA SUHODOL
- F.7. LIPOSOMES: A POTENTIALLY EFFECTIVE WAY TO DELIVER NUTRIENTS AND ACTIVE INGREDIENTS IN FOOD**
ECATERINA COVACI, NADEJDA BOTEZATU AND RODICA STURZA
- F.8. EVALUATION OF THE CONTENT OF POLYPHENOLIC SUBSTANCES IN SEEDS OF FERMENTED MARC OF RED AND WHITE GRAPES**
VERONICA DRAGANCEA, ANGELA GUREV
- F.9. THE USE OF DIETARY FIBER IN THE CONTEXT OF THE CIRCULAR BIOECONOMY**
ALIONA GHENDOV-MOSANU, LILIANA POPESCU, VIORICA BULGARU, ANGELA GUREV
- F.10. EVALUATION OF NUTRITIONAL AND PHYTOCHEMICAL COMPOSITION OF MOLDAVIAN DRIED PLUMS (PRUNUS DOMESTICA)**
NINA MIJA, DANIELA PALADI
- F.11. INNOVATIVE TECHNOLOGY FOR PRODUCING NATURAL YELLOW AND RED DYES FROM SAFFLOWER PETALS**
ALEXANDRA SAVCENCO, ALEXEI BAERLE, PAVEL TATAROV
- F.12. EFFECT OF PLANT PROTEINS FINING ON PHENOLIC COMPOUNDS AND COLOR INDICES OF RARA NEAGRA RED WINE**
NATALIA VLADEI



- F.13. ANTIMICROBIAL AND ANTIFUNGAL ACTIVITY OF PUMPKIN POWDER (CUCURBITA MOSCHATA)**
GRETA BALAN, DANIELA COJOCARI, OLGA BOEȘEAN, NATALIA NETREBA, ALIONA GHENDOV-MOSANU
- F.14. INFLUENCE OF STORAGE CONDITIONS ON THE ANTIOXIDANT ACTIVITY OF GRAPE MARC EXTRACTS**
RODICA STURZA, NATALIA VLADEI, ALEXANDRA ARSENI
- F.15. PUMPKIN FLOUR – NATURAL INGREDIENT USED IN THE MANUFACTURE OF TRITICALE PASTA**
SERGIU PAIU, VIORICA BULGARU, GALINA LUPAȘCU, TAMAR SANIKIDZE, RODICA STURZA, ALIONA GHENDOV-MOSANU
- F.16. THE STABILITY OF BIOACTIVE COMPOUNDS IN LIPOPHILIC EXTRACTS FROM LOCAL BERRIES**
VIOLINA POPOVICI
- F.17. IN VITRO ANTIOXIDANT ACTIVITY OF OILS ENRICHED WITH HAWTHORN (CRATAEGUS) LIPOPHILIC EXTRACT**
VIOLINA POPOVICI
- F.18. TECHNOLOGICAL PROPERTIES OF OILSEED MEALS OBTAINED FROM THE LOCAL FAT AND OIL INDUSTRY**
OXANA RADU, TATIANA CAPCANARI, EUGENIA COVALIOV
- F.19. VALORIZATION OF VEGETABLE PROTEINS OBTAINED FROM LOCAL AGRO-FOOD WASTES**
OXANA RADU, ALINA BOISTEAN, EUGENIA COVALIOV, CATALINA NEGOITA
- F.20. SEA BUCKTHORN PRESS RESIDUES AS A PROMISING RAW MATERIAL FOR DEVELOPING FUNCTIONAL PRODUCTS**
NATALIA NETREBA, ARTUR MACARI, IRINA DIANU, IULIANA SANDU, TATIANA CUSMENCO, ALEXEI BAERLE
- F.21. NATURAL BROWN INNOVATIVE FOOD COLOR BASED OF WALNUT KERNELS PELLICLE**
IULIANA SANDU, ALEXEI BAERLE, NATALIA NETREBA, VALENTINA BANTEA-ZAGAREANU
- F.22. FUNCTIONAL CONFECTIONERY PRODUCT ENRICHED WITH VEGETABLE POMACE**
ELENA SERGHEEVA, NATALIA NETREBA, ALIONA GHENDOV-MOSANU
- F.23. INFLUENCE OF THERMAL PROCESSING ON CAROTENOID CONTENT AND ANTIOXIDANT ACTIVITY IN BERRIES PULP**
RODICA STURZA, ADELA PINTEA, ALIONA GHENDOV-MOȘANU
- F.24. THE INFLUENCE OF THE MICROWAVE METHOD REGIME ON THE ANTIOXIDANT ACTIVITY OF JOSTA BERRY**
OLGA SMEREA, VIORICA BULGARU, ANGELA GUREV, ALIONA GHENDOV-MOȘANU
- F.25. ULTRASOUND-ASSISTED EXTRACTION OF SOLUBLE DIETARY FIBER FROM QUINCE POMACE**
LILIANA POPESCU, ANGELA GUREV, MARIA-MARCELA BARBAROȘ, ALIONA GHENDOV-MOSANU



- F.26. COMPARATIVE ANALYSIS OF TESTING METHODS FOR THE CONTENT OF PHTHALATE RESIDUES IN WATER**
MARIA-LOREDANA SORAN, DMITRI LAZACOVICH, ALIONA GHENDOV-MOȘANU, RODICA STURZA
- F.27. CORRELATION BETWEEN THE MICROBIOLOGICAL STABILITY OF WINE AND THE FORMS OF SULFUR DIOXIDE**
NATALIA VLADEI, ECATERINA COVACI, ALEXANDRA STRATAN, ILEANA-DENISA NISTOR, RODICA STURZA
- F.28. SOME CHARACTERISTICS OF GRAPE SKINS LOCAL VARIETY, GROWN IN THE REPUBLIC OF MOLDOVA**
NATALIA SUHODOL, OLGA RUSEVA, OLGA DESEATNICOVA, VLADISLAV REȘITCA, VIOLINA POPOVICI, EUGENIA COVALIOV, SILVIA RUBȚOV
- F.29. THE BEHAVIOR OF BREAD WITH THE ADDITION OF COCONUT SHELLS ACTIVATED CARBON**
NICOLETA PLATON, VASILICA ALISA ARUȘ, ANA-MARIA GEORGESCU, ANA-MARIA ROȘU, GABRIELA MUNTIANU, ILEANA-DENISA NISTOR
- F.30. PURITY EVALUATION AND MASS DETERMINATION OF NOVEL HYBRID COMPOUNDS FOR PRECISE INHIBITION OF HUMAN CARBONIC ANHYDRASE ISOFORMS**
MIHAELA SILION, CRISTINA M. AL-MATARNEH, MARIANA PINTEALA
- F.31. EXPLORING NOVEL HYBRID COMPOUNDS FOR TARGETED INHIBITION OF HUMAN CARBONIC ANHYDRASE ISOFORMS**
CRISTINA M. AL-MATARNEH, NATALIA SIMIONESCU, MIHAELA SILION
- F.32. DEVELOPMENT OF A NEW ELECTROCHEMICAL BIOSENSOR FOR PRECISE DETECTION OF PHENOLIC COMPOUNDS IN WATER SAMPLES FROM THE DANUBE RIVER**
ALEXANDRA VIRGINIA BOUNEGRU, CONSTANTIN APETREI
- F.33. BIOSENSOR BASED ON HORSERADISH PEROXIDASE FOR DETERMINATION OF TYROSOL**
ANDREI DANIEL GEMAN, ANDREEA LOREDANA COMĂNESCU, CONSTANTIN APETREI
- F.34. POLYPHENOLS DETECTION WITH BIOSENSOR BASED ON NANOENCAPSULATED TYROSINASE**
CONSTANTIN APETREI, ALEXANDRA VIRGINIA BOUNEGRU, IRINA MIRELA APETREI
- F.35. ELECTROCHEMICAL ANALYSIS OF ADULTERATED OLIVE OILS**
ANDREEA LOREDANA COMĂNESCU, ANDREI DANIEL GEMAN, CONSTANTIN APETREI
- F.36. CHARACTERIZATION OF SCREEN-PRINTED CARBON, GRAPHENE OXIDE AND PHENANTROLINE MODIFIED ELECTRODES**
ANA-RALUCA MĂGHINICI, CONSTANTIN APETREI
- F.37. LATEST ADVANCES IN SAWDUST-BIOMASS BASED MATERIALS FOR PERSISTENT ORGANIC POLLUTANTS REMOVAL FROM AQUEOUS MATRICES**
LĂCRĂMIOARA RUSU, ELENA-MIRELA SUCEVEANU, FLORIN MARIAN NEDEFF, NARCIS-TEODOR NIȚĂ, MARIA HARJA, LIDIA FAVIER
- F.38. PEARS BROWNING INHIBITION ASSESSMET USING HIGH FREQUENCY ELECTROMAGNETIC FIELD**
ESTERA DUCA, ALIN CRISTIAN TEUȘDEA, CRISTINA ROȘAN, RUBEN BUDĂU, SIMONA VICAȘ



- F.39. APPROACHES ON THE SUSTAINABLE VALORIZATION OF AGRO-FOOD BY-PRODUCTS AND WASTE**
IRINA-CLAUDIA ALEXA, LUMINIȚA GROSU, OANA-IRINA PATRICIU, ADRIANA-LUMINIȚA FÎNARU
- F.40. COMPLEXES WITH NICOTINAMIDE WITH ANTIMICROBIAN ACTIVITY**
RODICA OLAR, CĂȚĂLIN MAXIM, MIHAELA BADEA
- F.41. PHYSICO-CHEMICAL, PHYTOCHEMICAL AND SENSORIAL ANALYSES OF SOME ROMANIAN RED FRUITS TEA INFUSIONS**
LUMINIȚA GROSU, OANA-IRINA PATRICIU, IRINA-CLAUDIA ALEXA, ADRIANA-LUMINIȚA FÎNARU
- F.42. PRODUCTION, CHARACTERIZATION, AND TESTING OF FERTILIZERS DERIVED FROM MARINE RESIDUES**
VIOLETA ALEXANDRA ION, AILIN MOLOȘAG, OANA CRISTINA PÂRVULESCU, ANNE-KRISTIN LØES, JOSHUA CABELL, ATHANASIOS SALIFOGLU, DIANA EGR², TĂNASE DOBRE
- F.43. THE PHYSICO-CHEMICAL AND SENSORY CHARACTERISTICS OF MUFFINS WITH ROSEHIP POWDER ADDITION**
NICOLETA VARTOLOMEI, SIMINA TĂNASĂ, ALIN CRISTIAN TEUSDEA, ILEANA-DENISA NISTOR, VASILICA-ALISA ARUS, MARIA TURTOI
- F.44. THE CONTROL OF AIR RADIOACTIVITY AN IMPORTANT CONTRIBUTION ON SUSTAINABLE DEVELOPMENT GOALS**
NICOLETA ROTARIU, PETRONELA NECHITA
- F.45. COPPER (II) COMPLEXES WITH TRIAZOLOPIRYMIDINE DERIVATIVES DEVELOPED AS BIOLOGICALLY ACTIVE SPECIES**
MIHAELA BADEA, CĂȚĂLIN MAXIM, RODICA OLAR
- F.46. DYNAMIC PARAMETERS DETERMINATION IN BINARY FLUIDIZED BED OF BENTONITE PARTICLES**
GABRIELA MUNTIANU, ANA-MARIA GEORGESCU, ILEANA-DENISA NISTOR, GHEOGHIȚA JINESCU
- F.47. THEORETICAL STUDY OF NEW NANOEMULSIONS USED FOR FOOD PROCESSING**
ANA-MARIA ROSU, ILEANA DENISA NISTOR, DANIELA NICUTA, ROXANA ELENA VOICU, CAMELIA URECHE
- F.48. TAURINE AND ENERGETIC BEVERAGES - IN VIVO EVALUATION OF THE POTENTIAL CYTOTOXIC AND GENOTOXIC**
DANIELA NICUȚĂ, LUMINIȚA GROSU, IRINA-CLAUDIA ALEXA
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GEORGIANA LUMINIȚA, MIHĂILĂ SORIN, ȘTEFAN BIRIS

F.77. CLAY BASED MATERIALS FOR AMMONIA REMOVAL FROM POULTRY FARMS

RAZVAN CONSTANTIN ANASIE, NICOLETA PLATON, GABRIELA MUNTIANU, ANA-MARIA GEORGESCU, ANA-MARIA ROSU, DIANA CARMEN MIRILA, VASILICA-ALISA ARUS, DOREL URECHE, ILEANA-DENISA NISTOR

F.78. COMPARATIVE STUDY BETWEEN CLAY-BASED ADSORBENT/CATALYST MATERIAL AND BIOLOGICAL MATERIALS DERIVED FROM CYPRINUS CARPIO

DIANA CARMEN MIRILA, RALUCA-FLORENTA DIACONESCU (DOROFTEI), ANA-MARIA ROSU, ILEANA-DENISA NISTOR, DOREL URECHE



G. INDUSTRIAL POWER ENGINEERING & COMPUTER SCIENCE

BUILDING D HALL DP17

THURSDAY 23 MAY 2024 15⁰⁰ – 18⁰⁰

FRIDAY 24 MAY 2024 09⁰⁰ – 11⁰⁰

**CHAIRPERSONS: PROF.PH.D. CRISTIAN NICHITA
PROF.PH.D. ROBERT ISTOK
PROF.PH.D. GEORGE CULEA**

- G.1. CURRENT STUDIES REGARDING THE SIMULATION OF AN EMBEDDED MULTICORE RTOS**
TUDOR PETRESCU, VASILE GAITAN
- G.2. DECISION MAKING SYSTEM FOR SMART AGRICULTURE BASED ON FUZZY-TEMPORAL LOGICS**
VIORICA SUDACEVSCHI, VICTOR ABABII, VLADINA TUTUNARU, SILVIA MUNTEANU, OLESEA BOROZAN
- G.3. CREEPER RECOGNITION - DETECTION SOFTWARE FOR CARS THAT TRACKS YOU IN TRAFFIC BASED ON ARTIFICIAL INTELLIGENCE.**
GEORGE-PATRICK VÎTOGA, CORNEL POPESCU
- G.4. ASPECTS REGARDING THE DESIGN OF A COMPUTER NETWORK IN NON-FORMAL EDUCATION**
VALEA PETRE, BALAN ION
- G.5. STUDY ON INCREMENTAL CONDUCTANCE MAXIMUM POWER POINT TRACKING METHOD FOR PHOTOVOLTAIC SYSTEMS UNDER PARTIAL SHADING**
IOAN VIOREL BANU, FADILA BARKAT, MARCEL ISTRATE, JOSEP M. GUERRERO, GEORGE CULEA, ROXANA-MARGARETA GRIGORE, DRAGOS ALEXANDRU ANDRIOAIA, JUSTINA G. MOTAS
- G.6. DETECTION OF MIMIC-GESTURE MOVEMENTS USING THE ROMANIAN SIGN LANGUAGE SYSTEM**
ANDREI ENACHI, CORNEL TURCU, GEORGE CULEA
- G.7. LESSONS LEARNED FROM POWER SYSTEM BLACKOUTS TO INCREASE OPERATIONAL SAFETY**
PAVEL ATĂNĂSOAE, RADU DUMITRU PENTIUC, EUGEN HOPULELE, CONSTANTIN UNGUREANU
- G.8. AN HYBRID SVM-BASED APPROACH FOR DIMENSIONLESS REMAINING USEFUL LIFE PREDICTION IN ROLLING ELEMENT BEARINGS**
TSIVALALAINA DAVID RAZAFIMAHEFA, TODIZARA ANDRIANAJAINA, DAHIR ABDOURAHMAN
- G.9. DESIGN OF A COMPUTER NETWORK AT "EMIL BOTTA" NATIONAL COLLEGE - ADJUD**
MARIUS ADRIAN TĂNASE



- G.10. ICT SOLUTIONS FOR PHYSICAL RESILIENCE ASSESSMENT AND MODELING**
VEACESLAV SPRINCEAN, ALEXEI LEU, ROMAN BUIMESTRU, MARIANNA SAVVA, VASIL ANDRUH, MIHAIL CARAMAN, MARIAN JALENCU, ALEXANDR A. BARSUK, FLORENTIN PALADI
- G.11. STUDIES ON THE AUTONOMOUS FLIGHT CONTROL OF QUADCOPTER DRONES**
GEORGE CULEA, M. FLORIN MOCANU
- G.12. ADVANCEMENTS IN HUMAN ACTIVITY RECOGNITION: A TECHNICAL REVIEW OF SENSOR AND VISION-BASED APPROACHES**
BOGDAN CONSTANTIN SGHERA
- G.13. DESIGN OPTIMIZATION IN USING VIRTUAL REALITY (VR) TRAINING ENVIRONMENTS TO ADDRESS DEFICITS IN SOCIAL INTERACTION SKILLS OF AUTISM SPECTRUM DISORDER**
CULEA CĂTĂLINA
- G.14. PREVALENCE STUDY OF INTERNET ADDICTION PRESENCE IN A SAMPLE OF BACAU STUDENTS**
CULEA CĂTĂLINA
- G.15. ANALYSIS OF THE POSSIBILITY OF USING PATTERN RECOGNITION APPLICATIONS TO DETERMINE THE TIME OF OCCURRENCE OF DEFECTS IN ELECTRICAL EQUIPMENT**
SORIN EUGEN POPA, PETRU GABRIEL PUIU
- G.16. THE STUDY OF EVOLUTION OF ENERGY CONSUMPTION PER CAPITA AND BY SOURCE CATEGORY IN ROMANIA AND HUNGARY COMPARED TO THE EUROPEAN ONE**
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ANDREI-GABRIEL UNGUREANU
- G.18. PREDICTION OF THE REMAINING USEFUL LIFE OF LI-ION BATTERIES OF ELECTRIC SCOOTERS**
DRAGOS-ALEXANDRU ANDRIOAIA, ROBERT-MARIAN PISLARU
- G.19. UTILIZING HYBRID PHOTOVOLTAIC-THERMAL PANELS FOR ELECTRICITY AND HEAT IN RESIDENTIAL NEARLY ZERO ENERGY BUILDINGS**
ROXANA-MARGARETA GRIGORE, CORNELIA CAPĂT, CAMELIA DIMA
- G.20. PRACTICAL CONSIDERATIONS FOR USING HYBRID PHOTOVOLTAIC-THERMAL PANELS IN ELECTRICITY AND HEAT PRODUCTION**
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EUSEBIU PRUTEANU, PETRU GABRIEL PUIU, SORIN EUGEN POPA
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ANDREI-GABRIEL UNGUREANU



- G.23. ADVANCED TECHNOLOGIES IN THE PROCESSING, ANALYSIS, DISTRIBUTED PROCESSING, AND FUZZY QUERYING OF DATA FROM WIRELESS SENSOR NETWORKS (WSN)**
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FURDU IULIAN



G.37. COOPERATIVE DELIVERY TANDEM USING TRUCKS AND DRONES
GLORIA CERASELA CRISAN, SORIN IONUT CONEA

G.38. EVOLUTION OF ROMANIAN AND HUNGARIAN RENEWABLE ELECTRICAL ENERGY PRODUCTION
RÓBERT ISTÓK, PETRU GABRIEL PUIU, GEORGE CULEA



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