



Section 5

**LAND RECLAMATION, EARTH
OBSERVATION & SURVEYING,
ENVIRONMENTAL ENGINEERING**

**SCIENTIFIC COMMITTEE OF
LAND RECLAMATION, EARTH OBSERVATION&SURVEYING,
ENVIRONMENTAL ENGINEERING SECTION**

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- Eric DUCLOS-GENDREU - Spot Image, GEO-Information Services, France
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- Ion GIURMA - "Gheorghe Asachi" Technical University of Iasi, Romania
- Jean-Luc HORNICK - Faculté de Médecine Vétérinaire, Université de Liège, Belgium
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- Ana VÎRSTA - University of Agronomic Sciences and Veterinary Medicine of Bucharest, Romania

**LAND RECLAMATION, EARTH OBSERVATION&SURVEYING,
ENVIRONMENTAL ENGINEERING SECTION**

ORGANIZING COMMITTEE

- Ana VÎRSTA
- Mirela Alina SANDU
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- Raluca MANEA
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DETAILED PROGRAMME

Venue:

**Faculty of Land Reclamation and Environmental Engineering
FIFIM Building, 2nd Floor, Central Hall**

Section Chairman:

Prof. PhD. Ana VÎRSTA

Dean - Faculty of Land Reclamation and Environmental Engineering

DAY 2 – FRIDAY, 3 JUNE 2022

09:00 – 09:15 Opening Speeches

FIFIM Building, 2nd Floor, Amphitheatre

SESSION 1: PAPER PRESENTATIONS

Time: 09:15 – 11:00

FIFIM Building, 2nd Floor, Amphitheatre

Session Moderators:

Prof. Lucian COPOLOVICI, Lecturer Anca MOSCOVICI

Nr. crt.	Authors	Paper Title
1	Flavia BORTES Andreea LUPITU Cristian MOISA Dana COPOLOVICI Virgiliu CIUTINA Denisa PETELEU Lucian COPOLOVICI	THE INFLUENCE OF ELEVATED CARBON DIOXIDE ON <i>RAPHANUS SATIVUS</i> PLANTS
2	Delia DIMITRIU, Raluca NICOLAE, Ioana PUȘCAȘU Ana-Maria BRĂILEANU	THE ROLE OF CIRCULAR ECONOMY IN DECARBONIZING DANUBE DELTA
3	Mihaela TIMOFTI Adriana-Magdalena PIENARU	THE CURRENT STATE OF WATER IN CIRCULAR ECONOMY IN ROMANIA
4	Cristinel CONSTANDACHE Ciprian TUDOR Laurentiu POPOVICI Lucian-Constantin DINCĂ	ECOLOGICAL RECONSTRUCTION OF THE STANDS AFFECTED BY DROUGHT FROM MEADOWS OF INLAND RIVERS
5	Constanța MIHAI Bogdan ERGHELEGIU Cosmin Constantin NIȚU Cristina-Elena MIHALACHE	MONITORING THE PHYSICOCHEMICAL PARAMETERS OF WATER QUALITY FROM LAKE HERĂSTRĂU BUCHAREST - 2015-2020
6	Gabriela DAMIAN DORIN Claudiu PRICOP Florian STĂTESCU	THE STUDY OF HYDROLOGICAL REGIME MODELING USING HEC-RAS MODEL. CASE STUDY RIVER BASIN BAHLUEȚ
11:00 – 11:30 <i>Coffee break</i>		

SESSION 2: PAPER PRESENTATIONS

Time: 11:30 – 13:30

FIFIM Building, 2nd Floor, Amphitheatre

Session Moderators:

Prof. Raluca MANEA, Research Assistant Ira-Adeline Simionov

Nr. crt.	Authors	Paper Title
1	Lucian COPOLOVICI Andreea LUPITU Cristian MOISA Dana COPOLOVICI	THE INFLUENCE OF ELEVATED CARBON DIOXIDE ON PLANTS DROUGHT TOLERANCE
2	Elena MIHĂILĂ, Dorina DRĂGAN, Cristiana MARCU Cornel COSTĂCHESCU, Florin DĂNESCU, Florin Dorian COJOACĂ	ELABORATION THE SUBSTANTIATING STUDIES FOR THE NECESSITY OF FOREST SHELTERBELTS TO PROTECT THE FIELD, PREMISE FOR OBTAINING FUNDS FOR THEIR REALIZATION
3	Adriana PIENARU Dan RĂDULESCU	OPPORTUNITIES TO APPLY NATURE-BASED SOLUTIONS IN ROMANIA IN THE CONTEXT OF EUROPEAN AGRICULTURE COMMON POLICIES
4	Lucia DOBRE Dorina MOCUȚA	THE RISKS OF LAND FRAGMENTATION OVER THE QUALITY OF LIFE IN RURAL AREAS IN ROMANIA
5	Ștefan Florin BĂLAN Bogdan Felix APOSTOL Alexandru ȚIGĂNESCU	THE IMPACT OF TURNKEY SEISMIC MONITORING NETWORK IN BUCHAREST
6	Elena MIHĂILĂ Elena TĂULESCU Adrian TUDORA Mihăiță BÎTCĂ	REASONS FOR MAINTAINING AND/OR INTRODUCING TREES ON GRASSLANDS
7	Adriana-Magdalena PIENARU Adela-Constanța VLADĂȘEL	ASSESSING THE OPPORTUNITIES OF DELIVERING SUSTAINABLE DRAINAGE SYSTEMS IN ROMANIA
8	Iulia DANA NEGULA Cristian MOISE Andi Mihai LAZĂR Cristina Elena MIHALACHE Florina DEDIU Alexandru BADEA	PILOT MONITORING SERVICE FOR CULTURAL HERITAGE BASED ON SATELLITE DATA AND PRODUCTS

13:30 – 14:30 *Lunch*

SESSION 3: PAPER & POSTER PRESENTATIONS

Time: 14:30 – 16:00

FIFIM Building, 2nd Floor, Amphitheatre

Session Moderators:

Prof. Lucian COPOLOVICI, Lecturer Anca MOSCOVICI

Nr. crt.	Authors	Paper Title
1	Constanța MIHAI Mihai FRÎNCU Corina DUMITRACHE	ISOLATION AND CHARACTERIZATION OF NEW YEASTS STRAINS FROM BARLEY SAMPLES
2	Cosmin NIȚU	P-ADIC NUMBERS AND APPLICATIONS
3	Eugen POPESCU Florin NENCIU Valentin Nicolae VLĂDUȚ	A NEW STRATEGIC APPROACH USED FOR THE REGENERATION OF SOIL FERTILITY, IN ORDER TO IMPROVE THE PRODUCTIVITY IN ECOLOGICAL SYSTEMS
4	Florina VOICU George Emanuel VOICU	THE TOURISM DEVELOPMENT OF THE SUREANU MASSIF BY VALORISATION OF THE NATURAL POTENTIAL
		POSTER SESSION
	16:00 – 16:30	<i>Coffee break</i>
	16:30-17:00	Conference Awards Conclusions and Closing session

POSTER SESSION

No	Authors	Paper Title
1.	Adrian PICA, Florin BOJA, Ciprian FORA, Mihaela MOATAR, Nicu BOJA	ADVANTAGES OF USING GNSS TECHNOLOGY AND QGIS SOFTWARE IN INVENTORY STANDS EXPLOITERS
2.	Adrian ROȘU, Maxim ARSENI, Bogdan ROȘU, Ștefan-Mihai PETREA, Cătălina ITICESCU, Lucian-Puiu GEORGESCU	STUDY OF THE INFLUENCE OF MANNING PARAMETER VARIATION FOR WATERFLOW SIMULATION IN DANUBE DELTA, ROMANIA
3.	Ahmed AL-RUBAYE, Anton CHIRICA, Ioan BOTI	3D FINITE ELEMENT ANALYSIS MODEL TO ACCESS THE SETTLEMENT OF SOFT SOIL TREATED WITH NANO-Mgo

No	Authors	Paper Title
4.	Ahmed AL-RUBAYE, Anton CHIRICA, Ioan BOTI	A REVIEW OF IMPROVEMENT GEOTECHNICAL CHARACTERISTICS BY NANO ADDITIVES
5.	Aleksandr YASHIN, Yrii POLYVYANII, Julia KULIKOVA, Kirill BAXMETIEV	THEORETICAL RESULTS BY DETERMINING THE POWER OF THE DRIVEVIBRO-OIL PRODUCER
6.	Alina ANTACHE, Valentina CALMUC, Stefan-Mihai PETREA, Ira-Adeline SIMIONOV, Madalina CALMUC, Aurelia NICA, Dragos CRISTEA, Mihaela NECULITA	THE INFLUENCE OF PHARMACEUTICAL RESIDUES FROM SURFACE WATERS ON FISH OXIDATIVE STRESS: A REVIEW
7.	Ana Bianca PAVEL, Selma MENABIT, Naliana LUPAȘCU, Sylvain KREUTER	ROLE OF ENVIRONMENTAL PARAMETERS IN THE DISTRIBUTION OF MEIOBENTHIC FAUNA (<i>OSTRACODA</i> AND <i>FORAMINIFERA</i>) IN THE ROMANIAN BLACK SEA SHELF
8.	Andreea Ioana LUPITU, Cristian MOISA, Dana Maria COPOLOVICI, Lucian COPOLOVICI	EXTREME TEMPERATURES RESPONSES OF <i>OCIMUM BASILICUM</i> L. PLANTS
9.	Andreea TEPENEU, Lucian COPOLOVICI, Cristian MOISA, Andreea LUPITU, Dana COPOLOVICI	A LONG TERM MONITORING OF VOLATILE ORGANIC COMPOUNDS PARTICULATE MATTER, CARBON DIOXIDE AND FORMALDEHYDE IN A GENERAL SHOP
10.	Bianca-Denisa CHEREJI, Florentina-Daniela MUNTEANU	THE IMPACT OF SHEEP WASTE WOOL ON THE ENVIRONMENT
11.	Bianca-Ștefania ZĂBĂVĂ, Paula TUDOR, Gheorghe VOICU, Gabriel-Alexandru CONSTANTIN, Mirela-Nicoleta DINCĂ	SEDIMENTATION RATE OF LIQUID-SOLID SUSPENSIONS, AS A PARAMETER OF WASTEWATER TREATMENT

No	Authors	Paper Title
12.	Bogdan ROȘU, Adrian ROȘU, Maxim ARSENI, Ștefan-Mihai PETREA, Cătălina ITICESCU, Lucian-Puiu GEORGESCU	THE EFFECTS OF OPTIMIZING A SIMULATED WASTEWATER TREATMENT PLANT ON EFFLUENT QUALITY
13.	Cătălin-Ionel CIONTU, Ilie-Cosmin CÂNTAR, Daniel-Ond TURCU, Gheorghe Florian BORLEA	THE VARIATION ON TYPES OF MICROHABITATS ON TREES IN A NATURAL FOREST - "IZVOARELE NEREI" NATURAL RESERVE - CASE STUDY
14.	Claudiu-Sorin DRAGOMIR, Daniela DOBRE, Iolanda-Gabriela CRAIFALEANU, Emil-Sever GEORGESCU	SUSTAINABLE SOLUTIONS IN BUILT ENVIRONMENT SAFETY
15.	Constanta MIHAI, Mihai FRINCU, Corina DUMITRACHE	YEAST BIOMASS - A NUTRITIOUS AND SUSTAINABLE SOURCE FOR FISH FEED – REVIEW
16.	Cornel Cristian TERESNEU	THE USE OF GEOGRAPHICAL INFORMATION SYSTEMS FOR ISSUES OF FOREST LAND RETROCESSIONS
17.	Cosmin BRAGA, Lucian DINCA, Gheorghe SPARCHEZ, Vlad CRISAN	SEASONAL HETEROGENEITY OF SOIL MICROCLIMATE IN <i>FAGUS SYLVATICA</i> FOREST IN RELATION WITH STAND AGE
18.	Daniela KOSTOVA-IVANOVA	OVERVIEW OF THE BULGARIAN NATIONAL ENERGY TRANSITION TARGETS BY SECTORS
19.	Diana-Nicoleta MINZALA, Ira-Adeline SIMIONOV, Ștefan-Mihai PETREA, Alina ANTACHE, Victor CRISTEA, Anca-Nicoleta SAVESCU	EVALUATION OF POTENTIALLY TOXIC ELEMENTS IN BLACK SEA FISHERY RESOURCES: A REVIEW
20.	Dragos DRACEA, Augustina TRONAC, Sebastian MUSTATA	CONTINUOUS ADJUSTMENT WITHIN WASTEWATER TREATMENT PLANTS OPERATION TO MEET NATURAL RECEPTORS DISCHARGE CONDITIONS

No	Authors	Paper Title
21.	Gabi-Mirela MATEI, Sorin MATEI, Monica DUMITRAȘCU	MICROBIAL DIVERSITY IN SOILS FROM HIGH NATURAL VALUE AGRICULTURAL SYSTEMS WITH PASTURES AND NATURAL MEADOW IN SUCEAVA COUNTY
22.	Gabriela BIALI, Paula COJOCARU	GIS HYDROLOGICAL MODELING IN AN AGRICULTURAL RIVER BASIN WITH HIGH POTENTIAL FOR WATER EROSION
23.	Gabriela DAMIAN (DORIN), Claudiu PRICOP, Florian STĂTESCU	THE STUDY OF HYDROLOGICAL REGIME MODELING USING HEC-RAS MODEL. CASE STUDY RIVER BASIN BAHLUEȚ
24.	Gabriela MILIAN, Sorin-Stefan BIRIȘ, George IPATE, Valentin Nicolae VLĂDUȚ, Mihai MATAACHE, Cătălin PERSU	RESEARCH ON THE EFFICIENCY OF NIGHT HERBICIDE IN SMART FARMS IN ROMANIA
25.	Ira-Adeline SIMIONOV, Mădălina CĂLMUC, Alina ANTACHE, Valentina CĂLMUC, Ștefan-Mihai PETREA, Aurelia NICA, Victor CRISTEA, Mihaela NECULIȚĂ	THE USE OF <i>PECTINATELLA MAGNIFICA</i> AS BIOINDICATOR FOR HEAVY METALS POLLUTION IN DANUBE DELTA
26.	Iulian NICHERSU, Costel NEGREI, Edward BRATFANOF, Dragos BALAIKAN	LOCAL BASED SOLUTIONS EDAPHIC-BLOOM DANUBE
27.	Iulian NICHERSU, Delia DIMITRIU, Iuliana NICHERSU, Dragos BALAIKAN	A ROADMAP FOR SUSTAINABLE ENVIRONMENT OF DANUBE DELTA – 3D INITIATIVE
28.	Kuchmaz KUCHMAZOV, Igor KARASEV, Babken MELOYAN, Navruz NAVRUZOV, Maxim KIRIN	COMBINE HEADER ACTIVE SIDE DIVIDER
29.	Lucian DINCĂ	FIELD ELM (<i>ULMUS MINOR</i> MILL.) STANDS THE MOLDAVIAN PLAIN

No	Authors	Paper Title
30.	Madalina CALMUC, Valentina CALMUC, Maxim ARSENI, Ira-Adeline SIMIONOV, Alina ANTACHE, Constantin APETREI, Puiu-Lucian GEORGESCU, Catalina ITICESCU	IDENTIFICATION AND CHARACTERIZATION OF PLASTIC PARTICLES FOUND IN THE LOWER DANUBE RIVER
31.	Marcel RUSCĂ, Levente DIMEN, Liviu MĂRCUȚĂ	ENVIRONMENTAL POLLUTION DUE TO ROAD VEHICLES, ALTERNATIVE SOLUTIONS (ELECTRIC VEHICLES, HYBRIDS, BICYCLES) SUSTAINABILITY OF CROWDED CENTERS OF CITIES
32.	Maria POPA, Ioana GLEVITZKY, Gabriela-Alina DUMITREL, Dorin POPA, Ana VIRSTA, Mirel GLEVITZKY	QUALITATIVE ANALYSIS AND STATISTICAL MODELS BETWEEN SPRING WATER QUALITY INDICATORS IN ALBA COUNTY, ROMANIA
33.	Marta Ioana MOLDOVEANU, Daniela Lucia MANEA, Elena JUMATE, Radu FECHETE, Maria Loredana ȚINȚIȘAN, Adrian Cristian SIOMIN	STUDY ON THE OPTIMIZATION OF CONCRETE SCREEDS IN ZOOTECHNICAL FARMS
34.	Maxim ARSENI, Adrian ROȘU, Ștefan Mihai PETREA, Mădălina CĂLMUC, Bogdan ROȘU, Daniel-Eduard CONSTANTIN, Cătălina ITICESCU, Lucian P. GEORGESCU -	THE POSITIVE EFFECTS OF CHANNELS RESTORATION IN THE DANUBE DELTA BIOSPHERE RESERVE
35.	Nicoleta Olimpia VRÎNCEANU, Dumitru Marian MOTELICĂ, Mihaela COSTEA, Bogdan OPREA, Georgiana PLOPEANU, Vera CARABULEA, Veronica TĂNASE, Mihaela PREDA -	CADMIUM ACCUMULATION IN SOME LEAFY VEGETABLES FROM PRIVATE GARDENS IN COPȘA MICĂ

No	Authors	Paper Title
36.	Oleksandr CHUMACHENKO, Ivan OPENKO, Yevheniia KRYVOVIAZ, Oleksiy ZHUK	MODELING OF INDICATORS OF ECONOMIC EFFICIENCY OF SECTORAL LAND USE
37.	Oleksandr MYTSYK, Mykola KHARYTONOV, Natalia HONCHAR, Oleksandr HAVRYUSHENKO, Mykhailo BABENKO, Svitlana LEMISHKO	ESTIMATION OF THE OPTIMAL THICKNESS OF THE SOIL MASS BULK LAYER IN THE LAND RECLAMATION PROFILES
38.	Ovidiu Marcel SÎRBU, Clara-Beatrice VÎLCEANU, Anca Maria MOSCOVICI, Sorin HERBAN	OPEN-SOURCE GIS FOR TERRITORIAL PLANNING – SOLAR MAP OF TIMIȘ COUNTY, ROMANIA
39.	Paula COJOCARU, Gabriela BIALI	TOXICITY OF COPPER ON THE <i>SINAPIS ALBA</i> AND <i>TRITICUM AESTIVUM</i> PLANTS
40.	Radu Cristian TOMA, Camelia Filofteia DIGUȚĂ, Oana Alina BOIU-SICUIA, Mihai FRÎNCU, Călina Petruța CORNEA	DIGITAL APPLICATION FOR REMOTE CONTROL OF BACTERIAL ENDOPHYTES GROWTH IN BIOREACTOR VIA INTERNET AS A DESIGN SOLUTION TO A VIRTUAL LABORATORY
41.	Radu OPREA	CONSEQUENCES OF FRAGMENTATION OF AGRICULTURAL LAND ARRANGEMENT WITH DRYING-DRAINAGE WORKS
42.	Roxana-Gabriela POPA, Emil-Cătălin ȘCHIOPU, Irina-Ramona PECINGINĂ	MONITORING OF ENVIRONMENTAL POLLUTION AS A RESULT OF THE ACTIVITY OF REARING AND PRODUCTION OF SWINE
43.	Sorin MATEI, Gabi-Mirela MATEI, Elena Maria DRĂGHICI	BIOTRANSFORMATION OF EXPANDED PERLITE IN ORGANIC-LIKE SUBSTRATE BY CHEMOTROPHIC CONSORTIA
44.	Sorin MATEI, Gabi-Mirela MATEI, Elena Maria DRĂGHICI	THE ROLE OF BIOSYNTHESIS HUMIC-LIKE PRECURSORS IN SOIL PROCESSES DYNAMICS

No	Authors	Paper Title
45.	Stefan-Mihai PETREA, Alina ANTACHE, Ira-Adeline SIMIONOV, Aurelia NICA, Maxim ARSENI, Costinela FORTEA, Dragos Sebastian CRISTEA, Mihaela NECULITA	PHYTOREMEDIATION CAPACITY AND PHOSPHORUS MASS BALANCE IN A BASIL- STURGEONS AQUAPONICS INTEGRATED RECIRCULATING SYSTEM
46.	Taras IEVSIUKOV, Boris CHETVERIKOV, Ivan OPENKO, Ivan KOVALCHUK, Oleksandr SHEVCHENKO, Yanina STEPCHUK, Ruslan TYKHENKO, Oleksandr MAKAROV	TOPOGRAPHIC AND GEODETIC SUPPORT FOR THE DEVELOPMENT OF THE GIS REGISTER OF POLISH BURIALS CASE STUDY ON BAIKOVE CEMETERY IN KYIV
47.	Tiberiu Mihai KALMAR, Marcel DÎRJA, Adrian Traian Gh.M. RĂDULESCU, Petru Daniel MĂRAN, Virgil Mihai Gh.M. RĂDULESCU, Corina M. RĂDULESCU, Gheorghe M.T. RĂDULESCU	ANALYSIS OF THE EFFECT OF DEFORESTATION ON LAND STABILITY BY GEOMATIC METHODS, CASE STUDY ANALYZED IN THE GEOSSES PROJECT
48.	Tiberiu Mihai KALMAR, Marcel DÎRJA, Adrian Traian Gh.M. RĂDULESCU, Petru Daniel MĂRAN, Virgil Mihai Gh.M. RĂDULESCU, Corina M. RĂDULESCU, Gheorghe M.T. RĂDULESCU, Mihai HERBEI	LANDSLIDE ANALYSIS USING GIS TOOLS, CASE STUDY ANALYZED IN THE CROSS- BORDER GeoSES PROJECT
49.	Violina ANGELOVA	HEAVY METAL ACCUMULATION AND CHEMICAL COMPOSITION OF ESSENTIAL OIL OF <i>JUNIPERUS OXYCEDRUS</i> L. (CUPRESSACEAE) GROWN ON SERPENTINE SOILS IN BULGARIA
50.	Violina ANGELOVA	BIOACCUMULATION AND DISTRIBUTION OF HEAVY METALS, MACRO AND MICROELEMENTS IN <i>ODONTARRHENA</i> <i>CHALCIDICA</i> FROM BULGARIAN SERPENTINE SOILS

No	Authors	Paper Title
51.	Vitaliy DYSHLYUK	EFFICIENCY OF NEW FERTILIZERS BASED ON SEWAGE SLUDGE OF URBAN TREATMENT FACILITIES IN THE FODDER CROP ROTATION IN THE WESTERN FOREST-STEPPE OF UKRAINE
52.	Vlad CRISAN, Lucian DINCA, Cosmin BRAGA, Sorin DECA	OAK REACTION TO FUTURE CLIMATE CHANGES IN CENTRAL AND EASTERN ROMANIA
53.	Valentina CALMUC, Madalina CALMUC, Maxim ARSENI, Ira-Adeline SIMIONOV, Alina ANTACHE, Catalina ITICESCU, Puiu-Lucian GEORGESCU	ASSESSMENT OF WATER AND SEDIMENT QUALITY IN DUNAVĂȚ-DRANOV, RAZIM-SINOIE AQUATIC COMPLEXES