



Section 5

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

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

- Alexandru BADEA - University of Agronomic Sciences and Veterinary Medicine Bucharest, Romania
- Ioan BICA - Technical University of Civil Engineering Bucharest, Romania
- Daniel BUCUR - "Ion Ionescu de la Brad" University of Agricultural Sciences and Veterinary Medicine of Iasi, Romania
- Stefano CASADEI - University of Perugia, Italy
- Fulvio CELICO - University of Molise, Italy
- Carmen CÎMPEANU - University of Agronomic Sciences and Veterinary Medicine Bucharest, Romania
- Sorin CÎMPEANU - University of Agronomic Sciences and Veterinary Medicine Bucharest, Romania
- Marcel DARJA - University of Agricultural Science and Veterinary Medicine Cluj-Napoca, Romania
- Claudiu DRAGOMIR - University of Agronomic Sciences and Veterinary Medicine Bucharest, Romania
- Eric DUCLOS-GENDREU - Spot Image, GEO-Information Services, France
- Ion GIURMA - "Gheorghe Asachi" Technical University of Iasi, Romania
- Jean-Luc HORNICK - Faculté de MédecineVétérinaire, Université de Liège, Belgium
- Ilias KYRIAZAKIS - Newcastle University - United Kingdom
- Carmen MAFTEI - Ovidius University of Constanta, Romania
- Raluca MANEA - University of Agronomic Sciences and Veterinary Medicine Bucharest, Romania
- Florin MĂRĂCINEANU - University of Agronomic Sciences and Veterinary Medicine Bucharest, Romania
- Sevastel MIRCEA - University of Agronomic Sciences and Veterinary Medicine Bucharest, Romania
- John D. OLDHAM - SRUC, Edinburgh, Scotland, United Kingdom
- Nicolae PETRESCU - Valahia University Targoviste, Romania
- Marius Ioan PISO - Romanian Space Agency, Romania
- Maria POPA - "1 Decembrie1918" University of Alba Iulia, Romania
- Dorin Dumitru PRUNARIU - Romanian Space Agency
- Ramiro SOFRONIE - University of Agronomic Sciences and Veterinary Medicine Bucharest, Romania
- Răzvan Ionuț TEODORESCU - University of Agronomic Sciences and Veterinary Medicine Bucharest, Romania
- Augustina TRONAC - University of Agronomic Sciences and Veterinary Medicine Bucharest, Romania
- Ana VÎRSTA - University of Agronomic Sciences and Veterinary Medicine Bucharest, Romania

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

ORGANIZING COMMITTEE

- **Coordinator:** Prof. **Ana Virsta**
- Prof. Razvan Teodorescu
- Prof. Raluca Manea
- Prof. Carmen Cimpeanu
- Lecturer PhD. Patricia Mocanu
- Lecturer PhD. Mariana Catalina Calin
- Lecturer PhD. Mirela Alina Sandu
- Lecturer PhD. Tatiana Olinic
- Assist. Prof. PhD. Veronica Ivanescu
- Techn. Florin Neacsu

VENUE

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DETAILED PROGRAMME

SECTION 5–LAND RECLAMATION, EARTH OBSERVATION&SURVEYING, ENVIRONMENTAL ENGINEERING

Venue:

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

Day 1 – Thursday, 9 June 2016

14:30 – 15:00 Opening Speeches

FIFIM Building, 2nd Floor, Amphitheatre A.II.1

Section Chairman:

Prof. Ana VÎRSTA

Vicedean – Faculty of Land Reclamation and Environmental Engineering

Rapporteur: Lect. Mariana Cătălina CĂLIN

Faculty of Land Reclamation and Environmental Engineering

SESSION 1: PAPER PRESENTATIONS

Time: 15:00 – 16:30

FIFIM Building, 2nd Floor, Amphitheatre A.II.2

Session Moderators: Prof. Raluca MANEA,

Prof. Valentin FEODOROV

Time	Authors	Paper Title
15:00 – 15:15	Tatiana OLINIC, Ernest OLINIC	THE EFFECT OF QUICKLIME STABILIZATION ON SOIL PROPERTIES
15:15 – 15:30	Oana CIUGULEA, Ioan BICA	USE OF ARTIFICIAL GROUNDWATER RECHARGE METHODS FOR THE WATER RESOURCE MANAGEMENT IN THE CONTEXT OF CLIMATE CHANGE
15:30 – 15:45	Valentin FEODOROV	MODERN TECHNOLOGIES OF TREATMENT AND STABILISATION FOR SEWAGE SLUDGE FROM WATER TREATMENT PLANT

Time	Authors	Paper Title
15:45 – 16:00	Patricia MOCANU, Laurentiu MOCANU	USA ENVIRONMENTAL DUE DILIGENCE PRACTICE CASE STUDY ON AN INDUSTRIAL SITE LOCATED IN CARAS-SEVERIN COUNTY ROMANIA
16:00 – 16:15	Tsvetelina GEORGIEVA, Nadejda PASKOVA, Belma GAAZI, Georgi TODOROV, Plamen DASKALOV	DESIGN OF WIRELESS SENSOR NETWORK FOR MONITORING OF SOIL QUALITY PARAMETERS
16:15 – 16:30	Monica Emanuela STOICA, Casen PANAITESCU, Tudora CRISTESCU	DECONTAMINATION OF SOILS POLLUTED WITH PETROLEUM USING PHYSICOCHEMICAL AND THERMAL REMEDIATION TECHNOLOGIES IN PRAHOVA COUNTY AREA
16:30 – 17:00	<i>Coffee break; Viewing posters and discussions</i>	

SESSION 2: PAPER PRESENTATIONS

Time: 17:00 – 18:15

FIFIM Building, 2nd Floor, Amphitheatre A.II.2

*Session Moderators: Prof. Gabriel POPESCU,
Lect. Mirela Alina SANDU*

Time	Authors	Paper Title
17:00 – 17:15	Recep ÇAKIR	EVALUATION OF TAIL AND DRAINAGE WATERS ACCEPTABILITY FOR REUSE IN AGRICULTURE IN DRY REGIONS
17:15 – 17:30	Cristina BURGHILA, Catalina BORDUN, Sorin Mihai CIMPEANU, Daniela BURGHILA, Alexandru BADEA	WHY MAPPING ECOSYSTEMS SERVICES IS A MUST IN EU BIODIVERSITY STRATEGY FOR 2020?
17:30 – 17:45	Ioana Madalina MOLDOVAN, Silivan Valentin MOLDOVAN, Nicoleta Maria ILIES	RURAL ROMANIAN HOUSING DEGRADATION – EFFECT OF LAND RESTITUTION AND UNEMPLOYMENT RATES

Time	Authors	Paper Title
17:45 – 18:00	Murat TEKİNER, Murat YILDIRIM, Cafer TÜRKMEN, Ayhan ORAL, Bahri İZCİ	DETERMINATION OF THE EFFECTS OF HYDROGEL ON IRRIGATION PROGRAM FOR MAIZE CULTIVATED IN THE FIELD CONDITIONS
18.00 – 18.15	Gheorghe Mincu, SANDULESCU, Mariana BISTRAN, Florian UDRESCU, Laurentiu Florian ION	IRRIGATIONS: INNOVATIVE, VIRTUAL, AUGMENTED REALITY & EDUTAINMENT BASED, VET HANDBOOK AND eLEARNING FOR THE TRAINING IN ADVANCED IRRIGATIONS
19:30 - 21:30	<i>Official Gala Dinner - Cultural Event</i>	

Day 2 – Friday, 10 June 2016

SESSION 3: PAPER PRESENTATIONS

Time: 09:00 – 11:30

FIFIM Building, 2nd Floor, Amphitheatre A.II.2

Session Moderators: Prof. Daniela POPA,

Dr. Lucian COPOLOVICI

Time	Authors	Paper Title
09:00 – 09:15	Daniel DUNEA, Tom SAVU, Leif MARSTEEN	MONITORING OF SIZE-SEGREGATED PARTICULATE MATTER FRACTIONS WITH OPTICAL INSTRUMENTS IN URBAN AREAS
09:15 – 09:30	Maria POPA, Ion ONUTU	STUDIES ON THE SEED GERMINATION CHANGES AFTER THERMAL DECONTAMINATION OF CRUDE OIL POLLUTED SOILS
09:30 – 09:45	Roxana-Gabriela POPA, Irina-Ramona PECINGINA	STUDY ON CHEMICAL ANALYSIS OF SOIL IN THE COUNTY OF GORJ, IN TERMS OF THE CONTENT OF HEAVY METALS AND CHLORIDES

Time	Authors	Paper Title
09:45 – 10:00	Ioan VOINA, Maricel PALAMARIU, Iohan NEUNER	CONSIDERATIONS ON THE WAYS OF DETERMINING THE MOVEMENT OF THE EARTH'S SURFACE DUE TO THE PHENOMENON OF SUBSIDENCE
10:00 – 10:15	Abdelhadi MOUHRIF, Fouad AMRAOUI, Abdalah MOKSSIT	CEREAL YIELDS FORECASTING USING REMOTE SENSING AND GIS TECHNIQUES: A CASE STUDY OF OULED SALEH COMMUNE, GRAND CASABLANCA, MOROCCO
10:15 – 10:30	Gabriel POPESCU, Daniela IORDAN, Vlad PAUNESCU	THE RESULTANT POSITIONAL ACCURACY FOR THE ORTHOPHOTOS OBTAINED WITH UNMANNED AERIAL VEHICLES (UAVs)
10:30 – 10:45	Yusuf AYDIN, Burak SALTUK, Atilgan ATILGAN, Ali YUCEL, Koray OZRENK	IRRIGATION FACILITIES, PROBLEMS AND SOLUTIONS CONCERNING PISTACHIO GROWING IN SIIRT REGION
10:45 – 11:00	Lucian COPOLOVICI, Ulo NIINEMETS	ENVIRONMENTAL EFFECT ON EMISSION OF VOLATILE ORGANIC COMPOUNDS FROM PLANTS
11:00 – 11:15	Murat YILDIRIM, Alper DARDENIZ, Seckin KAYA, Baboo ALI	AN AUTOMATED HYDROPONICS SYSTEM USED IN A GREENHOUSE
11:15 – 11:30	Camelia Slave, Carmen Mihaela MAN, Ioana VIZIREANU	FLOODS IN THE LAST DECADE. MANAGEMENT FLOOD RISK STRATEGY
11:30 – 13:30	<i>Coffee break; Viewing posters and discussions</i>	
13:30 – 14:30	<i>Lunch</i>	

POSTER SESSION

FIFIM Building, 2nd Floor

**Moderators: Lect. Cașen PANAITESCU,
Lect. Tatiana OLINIC**

Paper ID	Authors	Paper Title
1	Anca BALAN, Mihail LUCA, Daniel TOMA	RESEARCH OF MORPHOLOGICAL PROCESSES INTO THE MOLDOVA RIVERBED USING PERIODIC TOPOGRAPHIC MEASUREMENTS
2	Alexandru Lucian LUCA, Olga-Adelina POP	EARTH DAM STABILITY - THE ANALYSIS OF FILTRATION PROCESS
3	Zamfir PANTER, Mugur BOBE, Gabriela ROSU, Florentina MATEI	AERATION LAGOON AS ADVANCED SOLUTION FOR LEACHATE EPURATION - A STUDY CASE IN GLINA PURGE UNIT
4	Irina-Ramona PECINGINA, Roxana-Gabriela POPA, Bogdan-Andrei GATEJ	STUDY ON MONITORING OF <i>CANIS LUPUS L.</i> POPULATIONS WITHIN THE NATURAL PROTECTED AREA FROM THE NORTH-WESTERN GORJ COUNTY
5	Sebastian PLUGARU, Anca SARB, Tibor Zsolt HORCSIK, Tiberiu RUSU	THE EFFECT OF CHROMIUM ON THE GROWTH OF <i>CHLORELLA PYRENOIDOSA</i> ALGAL CULTURES
6	Zuzana POÓROVÁ, Zuzana VRANAYOVÁ	QUESTIONNAIRE ABOUT GREEN ROOFS AND THEIR RETENTION QUALITIES FEATURES
7	Maria POPA, Alina LATO, Mihai CORCHES, Isidora RADULOV, Adina BERBECEA, Florin CRISTA, Lucian NITA, Karel Iaroslav LATO, Dorin POPA	QUALITY OF SOME SOILS FROM THE WEST REGION OF ROMANIA
8	Miloš PETROVIĆ, Aleksandra POPOVIĆ, Sonja GVOZDENAC, Aleksandra PETROVIĆ, Ivana IVANOVIĆ, Dušan MARINKOVIĆ, Vojislava BURSIC	CARABIDS (COLEOPTERA, CARABIDAE) AS PREDATORS OF PESTS IN AGRICULTURE
9	Claudiu Sorin DRAGOMIR, Daniela DOBRE, Emil-Sever GEORGESCU	BUILDINGS BEHAVIOUR TO SEVERE SURFACE EARTHQUAKES (CHILE 2010, NEW ZEALAND 2011, TAIWAN 2016)

Paper ID	Authors	Paper Title
10	Adrian APOSTOL, Cornelia Ioana ALDEA	EVOLUTION OF CALCULATING THE SPLINE FUNCTION BY LIMNIMETRICS KEY
11	Paula COJOCARU, Gabriela BIALI	ASSESSMENT OF THE DRINKING WATER DEMAND FOR WATER SUPPLY OF THE VILLAGES LOCATED IN THE AREA OF BARLAD HYDROGRAPHIC BASIN
12	Daniela POPA, Cristina PRUNISOARA (SCHIOPU), Constantin CARLAN	ASPECTS CONCERNING THE MONITORING OF THE QUALITATIVE PARAMETERS OF GROUNDWATERS FROM BALESTI – TAMASESTI AREA, GORJ COUNTY, ROMANIA – A NITRATE VULNERABLE ZONE
13	Martina RYSULOVA, Daniela KAPOSZTASOVA	TURNING GREY WATER INTO SAFE AND SUSTAINABLE SOURCE OF WATER - A REVIEW OF POSSIBILITIES IN "GREEN" TREATMENT PROCESSES
14	Ulas SENYIGIT, Riza KANBER, Atef HAMDY	THE EFFECTS OF DIFFERENT IRRIGATION WATER AND NITROGEN LEVELS ON THE WATER-NITROGEN-YIELD FUNCTIONS OF WATERMELON
15	Murat YILDIRIM, Okan ERKEN, Ali DAG	YIELD AND BIOCHEMICAL DIFFERENCES OF BROCCOLI (<i>Brassica Oleracea</i> L. Var. <i>italica</i>) UNDER VARIABLE WATER LEVELS IN AN OPEN FIELD
16	Gabriela BIALI, Paula COJOCARU	DATABASE SEARCH IN A GIS APPLICATION INTENDED FOR MAPPING THE USE CATEGORIES AND ANTI-EROSION SYSTEMS IN ANTOHESTI WATER CATCHMENT AREA, BACAU COUNTY
17	Georgi KOMITOV, Dimitar KEHAJOV	MACHINES FOR GATHERING AND UTILIZATION OF RESIDUAL BIOMASS FROM TOBACCO PRODUCTION

