



European Society of Soil Conservation,  
Babeş – Bolyay University Cluj Napoca  
University of Agricultural Sciences and Veterinary Medicine Cluj Napoca  
Office for Pedologic and Agrochemical Studies Cluj-Napoca  
The International Conference  
„Soil - Our Common Future”  
Cluj-Napoca (Romania), June 15-18, 2016

Dear participants,

The organizing and scientific committees are grateful to all who submitted abstract for the **2016 ESSC International Conference „Soil - Our Common Future”, Cluj Napoca, Romania.**

Now we are able to announce the list of the accepted abstracts.

In order to design the daily program of the scientific sessions please check out carefully the following:

- the author(s) and title of the scientific communication;
- the allocation of the abstracts at the proper scientific session;
- the way of presentation (oral or poster).

Unexpectedly many authors did not mention the way of presentation and/or the scientific session. We are open to make changes in this respect and please feel free to ask the secretariat of the conference (horea.bedelean@ubbcluj.ro, nicolae.har@ubbcluj.ro) for the changes you want the be made, but not later than 11 of April;

The **registration for the conference** is already open and early bird registration deadline is 30 April 2016. All conference participants have to be registered and have to pay the conference fee. Abstracts will be published into the conference Abstract volume.

The full conference program will become available at the **conference web page** around the end of May.

With best regards,

Nicolae Har  
President of Organizing Committee



## ORAL PRESENTATION

### Invited speakers

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|----------|---|
| <b>1</b> | <i>Pla Sentis, Ildefonso</i><br><b>HYDROLOGICAL APPROACHES TO LAND MANAGEMENT UNDER GLOBAL CHANGE</b> |
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### Session 1: Desertification and food security (oral presentations)

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| <b>1</b> | <i>Erwin Murer, Carmen Krammer, Andreas Baumgarten, Herbert Formayer, Andreas Schaumberger:</i><br><b>AGRICULTURAL SOIL REQUIREMENTS FOR FOOD SECURITY-MODELLING</b>                                     |
| <b>2</b> | <i>Schulz, E., Bencsik A. and Sani Ibrahim:</i><br><b>DESERTIFICATION VERSUS REGENERATION. THE GUIDIMOUNI RECORD, SOUTHEASTERN NIGER</b>   |
| <b>3</b> | <i>Ingrid Hartmann:</i><br><b>EQUALITY-THE HIDDEN VARIABLE WHICH AFFECTS LAND DEGRADATION, DESERTIFICATION AND FOOD SECURITY</b>   |
| <b>4</b> | <i>Mohammad, Hemmati:</i><br><b>THE IMPACT OF OPEN IRRIGATED FARMING SYSTEMS ON DEVELOPING DESERTIFICATION (CASE STUDY: TEHRAN PROVINCE, VARAMIN CULTIVATED PLAIN)</b>                                   |
| <b>5</b> | <i>Wildemeersch, J.C.J., Garba, M., Sabiou, M., Cornelis, Wim.M.:</i><br><b>OPTIMIZING RAINWATER PARTITIONING AND MILLET YIELD ON DEGRADED LAND IN NIGER USING WATER AND SOIL CONSERVATION PRACTICES</b> |

### Session 2: Organic soils, protection and conservation (oral presentations)

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| <b>1</b> | <i>Upadhayay, H.R., Bodé, S., Griepentrog, M., Bajracharya, R.M., Cornelis, W., Boeckx, P:</i><br><b>FATTY ACIDS SPECIFIC CARBON ISOTOPE TRACER FOR SEDIMENT SOURCES DISCRIMINATION AND APPORTIONMENT: APPLICATION IN CHITLANG WATERSHED OF NEPAL</b> |
| <b>2</b> | <i>Juan Carlos Loaiza Usuga, Maria Casamitjana Causa:</i><br><b>HIGH ANDES ANDOSOLS HYDROLOGY</b>   |
| <b>3</b> | <i>Casamitjana, M., Loaiza, Juan Carlos:</i><br><b>LAND USE EVALUATION IN ANDEAN ECOSYSTEMS; A METHODOLOGICAL APROXIMATION</b>  |

### Session 3: Management of soil function: monitoring and remediation (oral presentations)

- 1 *Shokr M.S., El Baroudy, A.A., Fullen, M.A., El-beshbeshy, T.R., Ali. R.R., Abd El Halim, A.A., Guerra, A.J.T and Jorge, M.C.O:*  
**MAPPING OF HEAVY METAL CONTAMINATION IN ALLUVIAL SOILS OF THE MIDDLE NILE DELTA OF EGYPT**
- 2 *Bondi, Giulia, O'Sullivan, L., Wall, D.P., Marongiu, I., Creamer R. E:*  
**AN INNOVATIVE INDEX OF LAND USE INTENSITY ACROSS GRASSLAND SOILS IN IRELAND**
- 3 *Zupanc, Vesna, Grčman, H., Pintar, M.:*  
**SOIL HYDRAULIC CHARACTERISTICS OF ELEVATED RIVER BANK OF HYDROPOWER PLANT BASIN**
- 4 *Luke Farrow, Timothy Quine, Murray Lark, Barry Rawlins, Miriam Glendell, Pia Benaud, Gareth McShane, Mike James, John Quinton, Lee Jones, Matthew Kirkham, David Morgan, Karen Anderson, Martin Evans, Jane Rickson, and Richard Brazier:*  
**PILOTING A COST-EFFECTIVE NATIONAL SOIL EROSION MONITORING NETWORK ON ARABLE LAND USING <sup>137</sup>Cs**
- 5 *Chendev Yu.G.*  
**HOLOCENE BIOCLIMATIC CHANGES OF SOILS IN TRANSITIONAL ZONE BETWEEN FORESTS AND STEPPES: CENTER OF EASTERN EUROPE**
- 6 *Abel Mahowe:*  
**EFFECT OF MANURE TREATMENT ON FURROW EROSION: A CASE STUDY OF SAGAWIKA IRRIGATION SCHEME IN KASUNGU, MALAWI.**
- 7 *Campos, Juan Antonio. A.; Peco, J.D. Amorós, J.A., Moreno, C and Moreno M.M:*  
**DEHYDROGENASE AND PHOSPHOMONOESTERASE ACTIVITIES IN A VINEYARD WITH AND WITHOUT RESIDENT VEGETATION COVER IN LA MANCHA (SPAIN)**
- 8 *Vasiliniuc Ionut., Roșca B., Pîrnău R., Patriche C.V.:*  
**CHEMICAL PROPERTIES INFLUENCING SOIL QUALITY IN EASTERN ROMANIA**
- 9 *Amatniece, V., Jankovska, I., Brūmelis, G., Nikodemus, O., Kasparinskis, R., Straupmanis, G.:*  
**THE INFLUENCE OF SOIL FACTORS AND RELIEF ON ESTABLISHMENT OF OAK IN THE PINE FOREST ECOSYSTEMS IN RIGA**
- 10 *RUSU Teodor, Paula Ioana MORARU, Camelia Liliana COSTE, Horea CACOVEAN, Bogdan Matei DUDA, Stefan BAKOS:*  
**CLIMATE INDICATORS MONITORING AND DESERTIFICATION MANIFESTATION IN THE TRANSYLVANIAN PLAIN BETWEEN 2008-2014**
- 11 *Dede Sulaeman, Y. Hidayat, L.M. Rachman, S.D. Tarigan:*  
**LAND USE MANAGEMENT SIMULATION TO REDUCE FLOW DISCHARGE AND SEDIMENTS YIELD IN CIUJUNG WATERSHED USING SWAT MODEL**

### Session 4: Post-fire soil management in natural and anthropogenic fire (oral presentations)

- 1 *Schulz, E., Bencsik, A., Cacovean. H:*  
**FIRE AND SOIL IN EXPERIMENT AND OBSERVATION**
- 2 *Velizarova, Emilia., Rousseva, S.:*  
**SOIL ERODIBILITY IN FIRE INFLUENCED FOREST ECOSYSTEMS IN SREDNA GORA MOUNTAIN, BULGARIA**
- 3 *Wittenberg, L., Zituny, R., Malkinson, D., Tessler, N.:*  
**EFFECTS OF POST-FIRE MANAGEMENT PRACTICES ON EROSION RESPONSE AND VEGETATION RECOVERY – MT. CARMEL, ISRAEL**
- 4 *Shtober-Zisu, Nurit, Tessler, N., Tsatskin, A. Greenbaum, N.:*  
**THE ROLE OF MAJOR FOREST FIRES ON ROCK DISINTEGRATION IN A MEDITERRANEAN ENVIRONMENT**

### Session 5: Urban soil: technical evaluation and engineering (oral presentations)

- 1 *Unagwu, B.O., Simmons, R.W., Rickson, R.J. :*  
**ORGANIC AMENDMENTS APPLIED TO A DEGRADED SOIL: EFFECTS ON SOIL CHEMICAL PROPERTIES AND MAIZE YIELD**
- 2 *Brînză M., Filipov F., Cojocariu M., Draghia L., Chelariu E.L.:*  
**THE SUITABILITY OF DEGRADED GREENHOUSE SOIL FOR SOME ORNAMENTAL PLANTS**

### Session 6: Soil conservation issues in organic farming and conservation agriculture (oral presentations)

- 1 *Haixiao, L., Alain, M., Christian, M., Léon-Étienne, P. , Noura, Z., Yichao, S.:*  
**SOIL TILLAGE AND P FERTILIZATION EFFECTS ON ROOT DISTRIBUTION AND MORPHOLOGY OF CORN (*Zea mays*, L.) and SOYBEAN (*Glycin max*, L.)**
- 2 *José Miguel Reichert:*  
**CONCEPTUAL FRAMEWORK FOR CAPACITY AND INTENSITY PHYSICAL SOIL PROPERTIES AFFECTED BY SHORT AND LONG-TERM CONTINUOUS NO-TILLAGE AND CONTROLLED TRAFFIC**
- 3 *Augusto Zanella, Jean-François Ponge, Jérôme Juilleret, Nicolas Bernier, Stéphanie Topoliantz, Manuel Blouin:*  
**SOIL AGGREGATES AND HUMUS SYSTEMS**

### Session 7: Forest soil: conservation policies (oral presentations)

- 1 *Cristinel Constandache, Lucian Dincă:*  
**THE AFFORESTATION OF DEGRADED FIELDS – AN ESSENTIAL ACTION FOR THE PROTECTION AND IMPROVEMENT OF THE SOIL IN THE CONDITIONS OF CLIMATIC CHANGES**
- 2 *Lucian Dincă, Maria Dincă:*  
**THE EVOLUTION IN TIME OF THE ORGANIC CARBON STOCK FROM ROMANIA'S FOREST SOILS**
- 3 *Bragă C.I., Spârchez G.:*  
**SEASONAL VARIABILITY OF SOIL CO<sub>2</sub> EFFLUX ON A OLD OAK FOREST**
- 4 *Chisăliță, I., Dincă, L., Vișoiu Dagmar, Cadar, N., Cântar, I., C. :*  
**BANAT'S FOREST SOILS. THEIR DISTRIBUTION ON FOREST DISTRICTS, SOIL CLASSES AND TYPES AND BIOCLIMATIC FLOORS**

### Session 8: Land management in a changing environment (oral presentations)

- 1 *Camil Lungu Constantineanu, Geanina Birescu, Giuseppe Lo Papa, Carmelo Dazzi:*  
**HYPOTHESIS OF RECLAMATION AND SOCIAL-ECONOMICAL DEVELOPMENT OF DEGRADED LANDS FROM EASTERN ROMANIA**
- 2 *Saulius Marcinkonis, Erika Kubiliene, Gražina Palaitytė:*  
**THE AGRICULTURAL ZINC DEMAND: SOILS VS PLANTS**
- 3 *Sanchez Trancon Delia, Ralisch R. , Riyuiti Higasbhibara L. , Pit Nunes A. :*  
**MASSIVE SOIL EROSION CAUSES IN THE NORTH OF PARANA, BRAZIL**
- 4 *Anca Elena Calistru, T. Pomohaci, G. Jităreanu:*  
**INFLUENCE OF SEEDBED PREPARATION FOR WINTER WHEAT CROP ON SOIL PHYSICAL CONDITIONS**
- 5 *Krása, Josef, Strauss, P., Bauer, T. , Dostál T., Macháčková, M., Laburda, T., Kroulík, M., Brandt, V.:* **SOIL SURFACE EVOLUTION UNDER DIFFERENT TILLAGE TYPES**

6	<i>Dostál Tomas., Kavka, P., Neumann, M., Krása, J., Zúmr D., Sobotková M., Bauer M., Strouhal L., Mistr M., Novotný I., Kroulík, M., Brant, V:</i> <b>DETERMINATION OF C FACTOR VALUES FOR ASSESSMENT OF THE EFFECT OF CLIMATE CHANGES ON SOIL EROSION HAZARD</b>
7	<i>Strauss Peter, T. Bauer, C.I. Bunea, D. Popescu, J. Buchholz, P. Querner, J.G. Zaller:</i> <b>INTER ROW MANAGEMENT AFFECTS SOIL PROPERTIES OF VINEYARD SOILS IN ROMANIA</b>
8	<i>Boris Boincean:</i> <b>SUSTAINABLE FARMING SYSTEMS FOR SOIL CONSERVATION AND CLIMATE RESILIENT</b>
9	<i>Rares Halbac-Cotoara-Zamfir:</i> <b>LAND DRAINAGE – A KEY ASPECT IN PRACTICING A SUSTAINABLE AGRICULTURE</b>
10	<i>Ojha Roshan Babu, Chalise D. :</i> <b>SOIL CONSERVATION: AN OVERVIEW OF NEPAL A COUNTRY PAPER</b>
11	<i>Ioana Dicu, Přemysl Štych, Nilanchal Patel:</i> <b>THE SPATIO TEMPORAL ANALYSIS OF DROUGHT EPISODES WITHIN CZECH REPUBLIC IN RELATION WITH THE LAND USE AND VEGETATION STRESS</b>
12	<i>Giuseppe Lo Papa, Giuseppe Bazan, Loredana Canfora, Anna Geraci, Carmelo Dazzi, Anna Benedetti, José María Martín Civantos, Flavia Pinzari:</i> <b>SOILS, PAST LANDSCAPES AND CULTURAL HERITAGE: PHYTOLITHS AS INDICATORS OF ANCIENT CROPS</b>
13	<i>Ivica Kisic, Igor Bogunovic, Darija Bilandzija:</i> <b>THE SEASONAL DYNAMICS OF WATER EROSION UNDER VARIOUS CROPS</b>
14	<i>Borut Vrščaj:</i> <b>THE LAND TAKE IN SLOVENIA BETWEEN 2002 AND 2016 – THE EXTENT AND TREND OF THE MAIN SLOVENIAN SOIL DEGRADATION PROCESS</b>
15	<i>Pîrnău, Radu Gabriel, Roşca, B., Vasiliu, I., Curea, D., Asăndulesei, A., Bodi, G.:</i> <b>INTEGRATING ARCHAEOLOGICAL RECORDS INTO SOIL STUDIES</b>
16	<i>André Evette, Vincent Breton, Catherine Lavaine, Paul Cavallé, Fanny Dommanget, Nathan Daumergue, Renaud Jaunatre, Gilles Favier, Solange Leblois, Alain Recking:</i> <b>SOIL BIOENGINEERING: TRADE-OFF BETWEEN EROSION CONTROL AND OTHER ECOLOGICAL FUNCTIONS OF THE RIVERBANKS</b>
17	<i>Vasenev Ivan Ivanovic:</i> <b>AGROECOLOGICALLY SMART LAND MANAGEMENT PLANNING IN RF CHANGING ENVIRONMENT</b>
18	<i>Chalise, Devraj, Subedi, N., Twanabasu, B., Ojha, RB. Thapa, B.:</i> <b>LAND AND SOIL CLASSIFICATION: A CASE STUDY FROM MIDDLE HILLS OF WESTERN NEPAL</b>
19	<i>Cezary Kaźmierowski, Karolina Herodowicz, Sławomir Królewicz, Jerzy Cierniewski:</i> <b>THE REPRESENTATIVENESS OF SOIL SPECTRA OBTAINED FROM THE SENSOR AT DIFFERENT HEIGHT ABOVE THE GROUND</b>
20	<i>NEGRUŞIER Cornel, Ioan PĂCURAR, BILAŞCO Ştefan, BOŢ Amalia</i> <b>RISK ASSESSMENT FACTORS FOR SOIL CONSERVATION IN ANIES BASIN</b>
21	<i>Irimuş, Ioan- Aurel, Cacoveanu Horia, Rus Teodor, Rus George, Cioban Tiberiu</i> <b>THE ROLE OF SOIL STRUCTURE AND TEXTURE IN INITIATION OF THE SLOPE GEOMORPHOLOGICAL PROCESSES IN IARA-SĂVĂDISLA DEPRESSION</b>
22	<i>Szajdak, L.W., Gaca, W., Meysner, T., Styła, K., Szczepański, M., Inisheva, L.I.:</i> <b>ELEMENT OF THE LANDSCAPE AND NON POINT POLLUTION IN GROUND WATER</b>
23	<i>Mihail Dumitru:</i> <b>LAND DEGRADATION IN ROMANIA</b>
24	<i>Amalia Ioana Boţ, Păcurar Ioan, Arghiuş Viorel, Bilaşco Ştefan, Negruşier Cornel:</i> <b>THE VULNERABILITY TO THE RISK FACTORS FROM UPPER BASIN OF ILIŞUA RIVER, IN BISTRIŢA NĂSĂUD COUNTY</b>
25	<i>Monica Lenga-Alexe, Horea Cacovean:</i> <b>INFLUENCE OF ANTROPOGENIC ACTIVITIES IN THE CLUJ COUNTY ENVIRONMENT (ROMANIA)</b>

26	<i>COLNIȚĂ Dorel, PĂCURAR Ioan, ROȘCA Sanda, BILAȘCO Ștefan, BOȚ Amalia Ioana:</i> <b>VULNERABILITY ASSESSMENT OF LAND TO SURFACE EROSION THROUGH U.S.L.E. SPATIAL ANALYSIS MODEL. CASE STUDY: SOMEȘUL MARE HILLS</b>
27	<i>MOLDOVAN Nicoalaie, Ioan PĂCURAR, Sanda ROȘCA, Dănuț PETREA:</i> <b>THE ANALYSIS OF VULNERABILITY TO LANDSLIDES IN ORDER TO DETERMINE THE RISK ON FARMLAND. CASE STUDY: INTERCOMMUNITY ASSOCIATION AREA FOR DEVELOPMENT ALBA IULIA</b>

#### Session 9: Soil quality improvement using natural materials (oral presentations)

1	<i>Steinberger Y., Erlich, R.:</i> <b>SLOPE ORIENTATION AND SOIL PARTICLE SIZE FRACTION MAY DETERMINE BIOTA COMMUNITY COMPOSITION AND FUNCTIONS IN A XERIC ECOSYSTEM</b>
2	<i>D. C. Galeș, D. C. Țopa, F. Filipov, Anca-Elena Calistru, G. Jităreanu:</i> <b>THE EFFECT OF A HYDROGEL ON SOME SOIL PHYSICAL CHARACTERISTICS AND PLANT MORPHOLOGICAL AND PHYSIOLOGICAL PARAMETERS</b>
3	Senjobi, B.A; Basil, E.C; Oyegoke, C.O, Fabunmi, T.A: <b>EFFECTS OF DIFFERENT LAND USES ON SOIL QUALITY AND DEGRADATION IN ABEOKIUTA, OGUN STATE, NIGERIA</b>
4	<i>Di Bella Vittorio, Poma I.:</i> <b>A NEW OPPOTUNITY IN BIOREMEDIATION OF COPPER POLLUTED SOILS</b>
5	<i>Iqbal Atia, Hasnain S.:</i> <b>POTENTIAL OF RHIZOBACTERIAL STRAINS IN CHANGING THE ROOT ARCHITECTURE OF <i>Arabidopsis thaliana</i> AND GROWTH PROMOTION OF <i>Triticum aestivum</i> PLANT</b>

#### Session 10: Climate-smart agriculture: modeling and prediction (oral presentations)

1	<i>Valentini R., Vasenev I. I., Nesterova O.V.:</i> <b>CLIMATE SMART SUSTAINABLE AGRICULTURE SUPPORT IN CONDITIONS OF FAR EAST REGION OF RUSSIA</b>
2	<i>Saher Mahmood, Mehboob Ahmed, Shahida Hasnain:</i> <b>RELATIVE STUDY OF VARIATION IN MICROBIALN DIVERSITY OF <i>Helianthus annuus</i> ACROSS THE GROWTH SEASON</b>

#### Session 11: Pedotechnique in large scale farming (oral presentations)

1	<i>Roșca Bogdan, Rusu C., Pîrnău, R.G., Patriche C.V., Curea, D.:</i> <b>COMPARISON BETWEEN DIFFERENT LANDFORM CLASSIFICATION METHODS IN RELATION WITH SOIL PROPERTIES IN BAHLUET BASIN</b>
2	<i>Firbank, L., Banwart, S., Cameron, D, Chapman, P.J., Hartley, S., Heinemeyer, A., Helgason, T., Hodson, M.E., Holden, J., Leake, J.:</i> <b>THE WHITE ROSE SUSTAINABLE AGRICULTURE CONSORTIUM: INCREASING THE RESILIENCE OF SOILS USED FOR INTENSIVE ARABLE FARMING</b>

## Session 12: Remediation of mine, quarry and oil fields soils (oral presentations)

- 1 **Xiaoming Wan:**  
USING THE INTERCROPPING SYSTEM OF HYPERACCUMULATORS AND ECONOMICAL CROP TO REMEDIATE THE Pb-Zn MINING CONTAMINATED SOIL
- 2 *Waugh J., Miller D., Ranalli A., Denny, A., Glenn, E., Brusseau, M.:*  
AN EVALUATION OF NITRATE REMEDIATION IN SOIL AND GROUNDWATER AT U.S. DEPARTMENT OF ENERGY UMTRCA SITES WITH AN EMPHASIS ON THE MONUMENT VALLEY SITE, ARIZONA, USA

## POSTERS SESSION

### 01 - Desertification and food security

- 1 **Shadananan Nair:**  
SOIL DEGRADATION ON THE DRY ZONES: CHALLENGE TO FOOD SECURITY IN INDIA
- 2 *Kertész, Ádam; Örsi, A:*  
DESERTIFICATION SENSITIVITY ANALYSIS

### 02 - Organic soils, protection and conservation

- 1 **Ilusanya Olusolape Afolake:**  
NON TARGETED EFFECTS OF HERBICIDES ON SOIL MICROBIAL POPULATIONS AND PHYSICOCHEMICAL PROPERTIES IN AGO- IWOYE, SOUTHWESTERN NIGERIA
- 2 *Pištea Ioana, Roșu Cristina, Roba Carmen, Azunu Alexandru, Dan Costin, Radu Mihaiescu:*  
SOIL AND STERIL QUALITY ASSESSMENT FROM BAIA MARE MINING AREA

### 03 - Management of soil function: monitoring and remediation

- 1 *Kenderessy, Pavoj, Dobrovodská, D., Šatalová, B:*  
SOIL WATER RETENTION IN TRADITIONAL AGRICULTURAL LANDSCAPE, EXAMPLE OF LIPTOVSKÁ TEPLIČKA VILLAGE, SLOVAKIA
- 2 *Peco, J.D., Campos, J.A.:*  
SOIL RESPIRATION UNDER THE PRESENCE OF DIFFERENT PLANT LITTER AND NITROGEN CONTENT
- 3 *Abdelmonem Mohamed Amer:*  
WATER FILLED PORES AS RELATED TO HYDRAULIC CONDUCTIVITY AND WATER STORAGE IN AGRICULTURAL SOILS OF NILE DELTA
- 4 *Mora, Juan Luis Mora, Armas-Herrera, C.M., Guerra, J.A., Arbelo, C.D., Rodríguez-Rodríguez, A.:*  
DISAGGREGATION KINETICS OF VOLCANIC SOILS AS AFFECTED BY PEDOLOGICAL AND ENVIRONMENTAL FACTORS
- 5 **Andrei Iliuta:**  
EVOLUTION OF HYDRO-PHYSICAL PROPERTIES OF A CAMBIC CHERNOZEM FROM SANTANA, ARAD COUNTY
- 6 *Antoine Karam, Luc M.C. Casséus, Silvio J. Gumiere, Lotfi Khiari :*  
PHYTOAVAILABILITY OF CALCIUM AND MAGNESIUM IN A SANDY SOIL AMENDED WITH TWO LIME MATERIALS
- 7 *Pablo Higuera, José Angel Amorós; Caridad Pérez-de-los-Reyes; Francisco J. García-Navarro, José M. Esbrí, Sandra Bravo:*  
MERCURY TRANSFER FROM SOIL TO OLIVE-TREE VINES LEAVES: THE CASE OF ALMADÉN (SPAIN)

8	<i>Florea, Nicolae:</i> <b>SOIL FORMING FACTORS OR SOIL DYNAMICS CONDITIONS? ENERGY ROLE FOR SOIL DYNAMICS AND DEVELOPMENT</b>
9	<i>Cezary Kaźmierowski, Sławomir Królewicz, Remigiusz Łukowiak, Jan Piekarczyk, Elton Mammedov, Witold Grzebisz, Ireneusz Wyczałek:</i> <b>THE USE OF THE DIFFUSE SPECTRAL REFLECTANCE AND WORLDVIEW2 SATELLITE DATA TO PREDICT PLANT AVAILABLE FORMS OF NUTRIENTS IN SOIL SURFACE HORIZON</b>
10	<i>Irina Moise, Valentina Voicu, Victoria Mocanu, Sorina Dumitru:</i> <b>THE ACCUMULATION OF HUMUS AND ORGANIC CARBON STORAGE CAPACITY OF SOILS IN ARID REGION OF NORTHERN DOBROGEA</b>
11	<i>Mihalache, M., Ilie, L. Marin, D.I., Bolohan, C:</i> <b>EFFECT OF AGRICULTURAL TECHNOLOGICAL SYSTEMS ON PHYSICAL AND CHEMICAL PROPERTIES OF CHROMIC LUVISOL FROM SOUTH PART OF ROMANIA</b>

#### 04 - Post- fire soil management in natural and anthropogenic fire

1	<i>Mataix-Solera, J., Arnaiz, P. , Arcenegui, V. , Chrenková, K. , López-Caravaca, A. , García-Orenes, F. , Jara-Navarro, A.B. , Cerdà, A:</i> <b>HYDROLOGICAL RESPONSE 3 YEARS AFTER SALVAGE LOGGING TREATMENTS IN A RECENTLY BURNT FOREST SOIL</b>
2	<i>Velizarova, Emilia., Molla, I.:</i> <b>ORGANIC CARBON AND NITROGEN IN A FOREST FIRE AFFECTED SOIL</b>

#### 06 - Soil conservation issues in organic farming and conservation agriculture

1	<i>Soriano, M.D., García-España, L., Llinares, J. , Lloret, I.:</i> <b>HYDROPHOBIA ROLE IN THE MOVEMENT OF SOIL WATER AND ADAPTATION TO CLIMATE CHANGE AND DECREASE OF WATER</b>
2	<i>Popiță, G.-E., Bălc, R., Tămaș, T., Vasile, G., Gligor, D., Moldovan, C.:</i> <b>TRACE METAL DISTRIBUTION IN SOILS FROM TWO ROMANIAN VINEYARDS</b>
3	<i>Pit Nunes, Amanda .Leticia, Coqueiro, A.C.P , Delia Sanchez-Trancon, Santos, M.K., Ralisch, R.:</i> <b>SOIL PENETRATION RESISTANCE TO EVALUATE AREAS UNDER NO-TILLAGE</b>
4	<i>Țopa Denis*, Răus L., Ailincăi C., Galeș D.C., Cara Irina, Calistru Anca, Jităreanu G.:</i> <b>THE VARIABILITY OF PHYSICAL AND HYDRAULIC SOIL PROPERTIES AND GRAIN YIELD OF MAIZE UNDER NO-TILL IN THE AGRO ECOSYSTEM FROM ȚIGĂNAȘI – NORTH EAST ROMANIA</b>
5	<i>Vazquez, Eduardo, Teutscheroová, N. ,Espejo, R. , Benito, M.:</i> <b>COMPARISON OF FOUR DIFFERENT LAND-USE SYSTEMS IN DEGRADED AREA OF “RAÑA” IN SW SPAIN</b>
6	<i>Madarász, Balasz., Benke, S., Tóth, A:</i> <b>HOW TO PREVENT SOIL EROSION: GRASS STRIPS OR/AND CONSERVATION AGRICULTURE?</b>
7	<i>Kravchenko, Yu., Cacoveanu H.:</i> <b>MOLLISOLS CONSERVATION PRACTICES IN UKRAINE</b>
8	<i>Anouar Benamar SEBAIBI</i> <b>DETERMINATION OF MYCORRHIZAE OF WHEAT OF MITIDJA AND SETIF PLAINS (ALGERIA)</b>
9	<i>Filipov F., Munteanu N., Stoleru V., Gales D., Stan T</i> <b>THE EFFECT OF ORGANIC PHARMING ON SOME CHARACTERISTICS OF SOIL UNDER PLASTIC TUNNELS FROM OAT FARM FALTICENI (ROMANIA)</b>
10	<i>Filipov F., Vintu V., Samuil C., Rotar I.:</i> <b>RED SOIL SUITABILITY FOR PASTURES FROM THE APUSENI MOUNTAINS (ROMANIA)</b>



- 11 *Stoleru Vasile., Palumbo G., Filipov F., Sellitto V.M., Munteanu N.*  
**INTERACTION OF GLOMUS SP. AND TOMATO CROP IN CAMBIC ENDOSALIC CHERNOZEMS UNDER ORGANIC AND CONVENTIONAL GROWING SYSTEMS**
- 12 *Horea Cacovean, Titus Man, Raularian Rusu:*  
**ASSESSING THE SPATIAL VARIABILITY OF SOIL ORGANIC MATTER USING TERRAIN ATTRIBUTES. WESTERN PART OF TRANSYLVANIAN PLAIN (ROMANIA)**
- 13 *Nicolaie Moldovan, Ioan Păcurar, Stefan Bilaşco, Sanda Rosca, Amalia Ioana Boţ:*  
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#### 07 - Forest soils: conservation policies

- 1 *Papp, Ruxandra., Micci, R., Marabottini, R., Stazi, S.R., Portoghesi, L., Marinari, S.:*  
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#### 08 - Land management in a changing environment

- 1 *Kwiatkowska-Malina Jolanta, Bielska A., Borkowski A. Sz:*  
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- 2 *Armas-Herrera, Cecilia.M.1, Dignac, M.-F., Rumpel, C., Arbelo, C.D., Chabbi, A.:*  
**COMPOSITION AND DYNAMICS OF CUTIN AND SUBERIN BIOMARKERS IN PLANT AND SOILS UNDER AGRICULTURAL USE**
- 3 *Silva, E. A. A., Alexandre Fonseca D'Andrea, Vasconcelos, R.W., Gomes, V. S., Rolim, H.O., D'Andrea, R. M. S:*  
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- 4 *Fikrat Feyziyev, Simone Priori, Giovanni L'Abate, A. Guliyev:*  
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- 5 *Dornik Andrei:*  
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- 6 *Stefania Cocco, Valeria Cardelli, Horea Cacovean, Giuseppe Corti:*  
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- 7 *Daniela RĂDUCU, Alina EFTENE:*  
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- 8 *Rivera, L., Turcu, V. E.:*  
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- 9 *Cheşan Marinela:*  
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#### 09 - Soil quality improvement using natural materials

- 1 *Ramadan Benjared, Alaeddin Elfoughi, Szilveszter Benedek, György Füleky:*  
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2	<i>García, Carlos, Murcia, B., Ondoño, S., Hernandez, T.:</i> <b>ESTRATEGIAS DE RESTAURACION DE SUELOS DEGRADADOS EN AMBIENTES SEMIÁRIDOS: IMPORTANCIA DE LOS PROCESOS BIOQUÍMICOS</b>
3	<i>Hernández Teresa., Hernández, M.C., García, C:</i> <b>ARE SOIL AGGREGATE FORMATION AND C FIXATION INFLUENCED BY THE NATURE OF ORGANIC AMENDMENTS UNDER SEMIARID CLIMATE?</b>
4	<i>Belić M., Pejić B., Nešić Lj., Ćirić V., Pavlović Lazar, Mačkić K.:</i> <b>THE EFFECT OF LIMING ON PROPERTIES OF NON-CARBONATE HUMOGLEY IN THE NORTH BANAT DISTRICT, SERBIA</b>
5	<i>Nikola Teutscherova, Eduardo Vazquez, Diana Santana, Alberto Masaguer, Marta Benito:</i> <b>CARBON MINERALIZATION DETERMINED BY THE COMPOST STABILITY STAGE WHEN APPLIED WITH BIOCHAR TO DEGRADED ACID SOIL</b>
6	<i>Ugolini, F., Calzolari, C., Lanini, G.M., Martelli, F., Massetti,L., Raschi, Antonio, Sabatini, F., Tagliaferri, G., Ungaro, F., Masciandaro, G:</i> <b>REMEDIAED WATER-WAYS SEDIMENTS TESTED FOR PLANT NURSING FIELD PLANTATIONS (CLEANSED LIFE+ PROJECT)</b>
7	<i>Massimo Geraci, Giuseppe Bazan, Giuseppe Lo Papa, Rosario Schicchi:</i> <b>ROLE OF SOME MEDITERRANEAN HERBACEOUS PLANTS IN SOIL CONSERVATION</b>
8	<i>Har, N., Bedelean, H., Hosu, A., Benea, M:</i> <b>NATURAL ZEOLITES FROM MIRȘID (ROMANIA)-POTENTIAL MATERIAL USED IN SOIL AND WATER REMEDIATION</b>
9	<i>Rafael, Rogério Borquete Alves; Corti, Giuseppe; Fernandez-Marcos, Maria Luisa; Cocco, Stefania:</i> <b>CHEMICAL ASSESMENT OF DIFFERENT ZISE OF FLUORAPATITE AND DOLOMITE ROCK WITH POTENTIAL TO BE USED IN AGRICULTURE</b>
10	<i>Márquez-San-Emeterio, L., Reyes-Martín, M.P., Fernández-Ondoño, E., Ortiz-Bernad, I.:</i> <b>EVALUATION OF COMPOSITION OF NUTRIENTS IN AVOCADO FRUITS (PERSEA AMERICANA), IN SUBTROPICAL ORCHARDS.</b>
11	<i>Reyes Martín, Marino Pedro, Márquez San Emeterio, L., Ortiz Bernad, I., Fernández Ondoño, E:</i> <b>STUDY OF THE NUTRIENT CONTENT IN PRUNING RESIDUES AND MINERALIZATION IN SOILS CULTIVATED UNDER SUBTROPICAL CROPS</b>

#### 11 - Pedotechnique in large scale farming

1	<i>Tunguz, V., Bošković, I:</i> <b>THE PROPOSAL OF MEASURES IN THE CASE OF RE-CULTIVATION OF LANDFILL IN EASTERN HERZEGOVINA</b>
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#### 12 - Remediation of mine, quarry and oil fields soils

1	<i>Farida E.Kozybaeva, Gulzhan B. Beiseyeva:</i> <b>RESTORATION OF ENVIRONMENTAL FUNCTIONS OF CONTAMINATED GRAY-BROWN SOILS IN KUMKOL DEPOSIT</b>
2	<i>M. Toktar, G. Lo Papa, F.E. Kozybayeva, C. Dazzi:</i> <b>PRELIMINARY RESULTS ON THE RECLAMATION OF THE SEMI-DESERT PHOSPHATE MINING AREA IN KAZAKHSTAN</b>
3	<i>Măcicășan, V., Roșian, G., Muntean, O.L., Brișan, N.S., Cacovean, H., Baci, N., Arghiuș, V.I.:</i> <b>ENVIRONMENTAL REHABILITATION OF DEGRADED LANDS FOLLOWING QUARRY EXPLOITATION IN AGHIREȘ MINING AREA</b>
4	<i>Lidong Ren, Mingbin Huang, Cornelis, Wim. M:</i> <b>WATER MOVEMENT AND ALFALFA GROWN IN LAYERED SOILS WITH DIFFERENT LAYER THICKNESS FOR MINE RECLAMATION</b>