Temporal evolution of soil erodibility: assessment of explanatory factors, and consequences on erosion modelling. An example from the Beauce area, France

Baptiste Algayer, Frédéric Darboux

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Baptiste Algayer, Frédéric Darboux. Temporal evolution of soil erodibility: assessment of explanatory factors, and consequences on erosion modelling. An example from the Beauce area, France. 4. International Congress EuroSoil 2012, Jul 2012, Bari, Italy. hal-02749101

HAL Id: hal-02749101
https://hal.inrae.fr/hal-02749101v1

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UNIVERSITÀ DEGLI STUDI DI BARI ALDO MORO

MINISTERO DELLE POLITICHE AGRICOLE ALIMENTARI E FORESTALI

EUROSOIL 2012

SOIL SCIENCE FOR THE BENEFIT OF MANKIND AND ENVIRONMENT

4th International Congress of the

EUROPEAN CONFEDERATION OF SOIL SCIENCE SOCIETIES (ECSSS)

2-6 July 2012, Bari – Italy

EUROSOIL 2012 and ECSSS President

Prof. Nicola Senesi

FINAL PROGRAMME

OECD

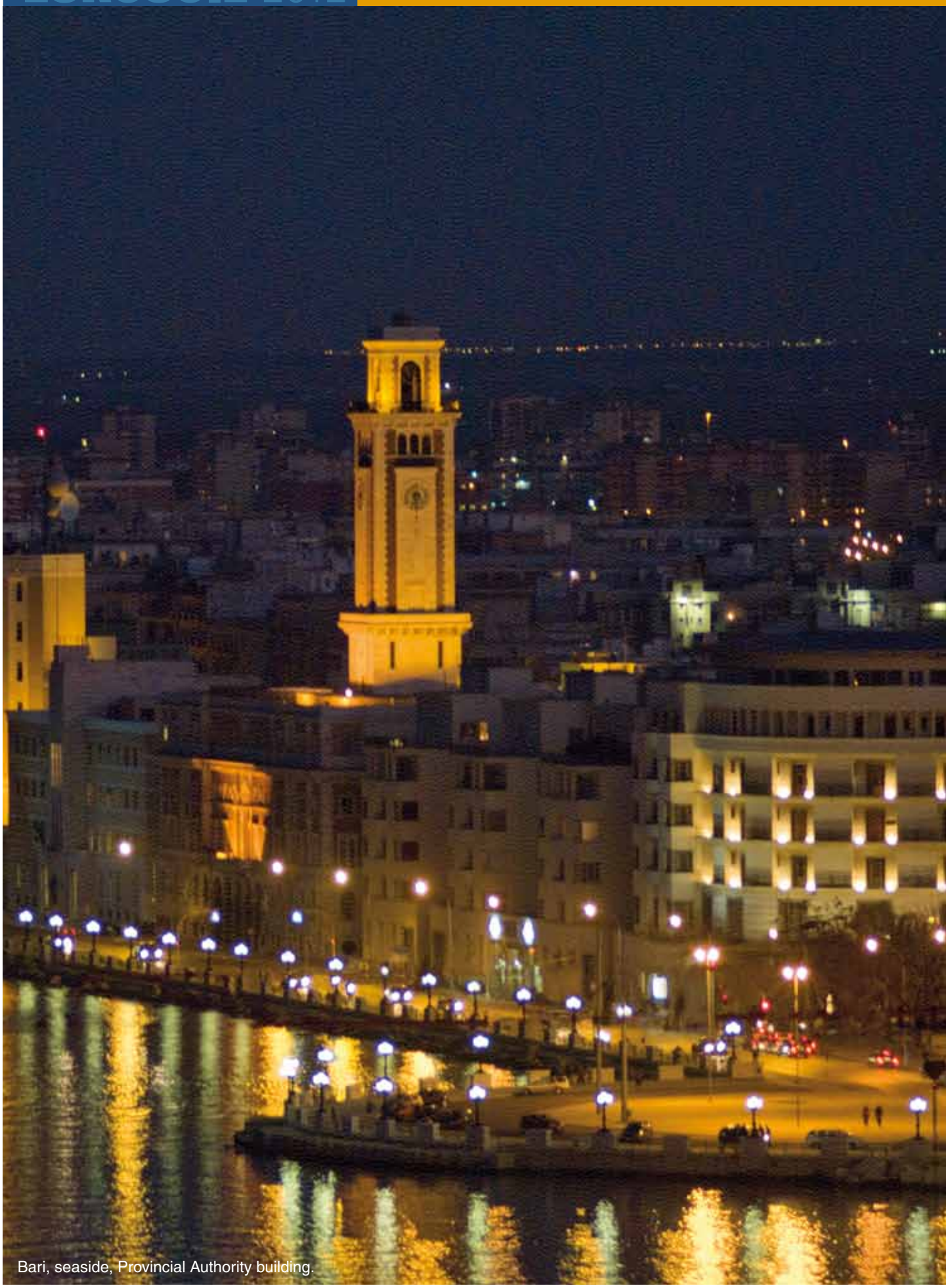
Institute for Environment and Sustainability

WELCOME ADDRESS

Distinguished Colleagues, Dear Friends:

As President of EUROSOIL 2012 and of the European Confederation of Soil Science Societies (ECSSS), on behalf of the National and Local Organizing Committees, it is my great pleasure and honor to welcome you to the 4th International Congress of ECSSS, "EUROSOIL 2012-Soil Science for the Benefit of Mankind and Environment". This is the 4° Congress of the very successful Series after those held in 2000 in Reading (UK), in 2004 in Freiburg (Germany), and in 2008 in Wien (Austria).
The general theme of EUROSOIL 2012 "SOIL SCIENCE FOR THE BENEFIT OF MANKIND AND ENVIRONMENT" aims to encompass several aspects and to offer ample opportunity to explore many issues of current Soil Sciences. The main objective of the scientific programme and structure of the Congress is to provide an interactive forum for exchange of ideas by bringing together and promoting durable and strict relationships among established and young soil scientists and researchers, technical and professional operators, industry and administrative representatives, policy makers and regulators who operate in the field of Soil Sciences.
The scientific programme of EUROSOIL 2012 is structured in 13 general topics that include 63 symposia and 5 workshops focused on the variety and complexity of Soil Science disciplines. Further, 16 special events, including roundtables, open debates, short courses and technical and business meetings, enrich the Congress programme. The Scientific Programme includes about 2300 presentations, of which more than 660 orals and more than 1600 posters. More than 1800 participants and 50 accompanying persons have already fully registered.
Finally, I wish to acknowledge and express my heartily thanks to all members of the Local and National Organizing Committees and Scientific Committee and, in particular, to all the Conveners and Co-Conveners of Symposia, Workshops and other Congress Events for the instrumental, hard and challenging work they have done in developing and promoting advanced attractive topics that represent the backbone of EUROSOIL 2012.
I am confident that EUROSOIL 2012 will be extremely active, informative and memorable for all of us, and will strengthen, not only scientific collaboration, but also friendship among participants.
I wish you a very pleasant stay in Bari for a unique, week-long, pleasant and unforgettable experience in a highly stimulating environment.
Welcome!

Nicola Senesi
President of ECSSS and EUROSOIL 2012



Bari, seaside, Provincial Authority building.

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Bari, Cathedral of Saint Sabin.

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Nicola Senesi
Dipartimento di Biologia e Chimica Agroforestale e Ambientale
Università "Aldo Moro" di Bari, Bari, Italy
Tel: +39-080-5442853, Fax: +39-080-5442850, e-mail: senesi@agr.uniba.it

EUROSOIL 2012 is organized under the auspices and with the support of almost all European National Soil Science Societies.

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General Scientific Programme

MONDAY 2		SPACE 7					
08.30-10.00		OPENING CEREMONY - WELCOMING ADDRESSES					
10.30-12.00		3 PLENARY LECTURES: SPARKS D. L., HORN R., MONTANARELLA L.					
MONDAY 2	**BLOCKS**	**ACERO**	**OLMO**	**LECCIO**	**BIANCOSPINO**	**ALLORO**	**MIRTO**
13.30-15.00	III	S03.01a	S10.01a	W12.01a	S11.01a	S07.05	S06.02
15.30-17.00	IV	S03.01b	S10.01b	W12.01b	S11.01b	S04.04	S11.08
17.00-18.30	POSTER PRESENTATIONS	POSTER AREAS					
		S03.01-P	S07.05-P	S12.04-P	S11.01-P	S11.08-P	S11.04-P
		S10.01-P	S06.02-P	S13.05-P	W12.01-P	S04.04-P	S07.04-P
18.30-20.00		WELCOME RECEPTION					
TUESDAY 3	**BLOCKS**	**ACERO**	**OLMO**	**LECCIO**	**BIANCOSPINO**	**ALLORO**	**MIRTO**
08.30-10.00	I	S03.01c	S10.01c	S06.04	S10.03a	S08.01a	S07.02
10.30-12.00	II	S12.07a	S05.01a	S03.02a	S10.03b	S08.01b	S06.03
13.30-15.00	III	S12.07b	S05.01b	S03.02b	S10.03c	S02.04	W06.01a
15.30-17.00	IV	S12.07c	S05.01c	S03.02c	S13.02	W11.01	W06.01b
17.00-18.30	POSTER PRESENTATIONS	POSTER AREAS					
		S12.07-P	S02.04-P	S08.01-P	S10.03-P	S13.02-P	W06.01-P
		S05.01-P	W11.01-P	S07.02-P	S06.04-P	S03.02-P	S06.03-P
18.30-20.00	SPECIAL EVENTS	**ACERO**	**OLMO**	**LECCIO**	**BIANCOSPINO**	**ALLORO**	**MIRTO**
			TM01	BM04	BM03	R01	R04
WEDNESDAY 4	**BLOCKS**	**ACERO**	**OLMO**	**LECCIO**	**BIANCOSPINO**	**ALLORO**	**MIRTO**
08.30-10.00	I	S07.04	S06.01a	S08.02a	S01.01a	S04.05a	S03.03
10.30-12.00	II	S11.02a	S06.01b	S08.02b	S01.01b	S04.05b	W03.01
13.30-15.00	III	S11.02b	S06.01c	S01.04	S02.05a	S04.06	S11.05
15.30-17.00	IV	S11.02c	S12.02	S11.07	S02.05b	W05.01	S11.06
17.00-18.30	POSTER PRESENTATIONS	POSTER AREAS					
		W05.01-P	S01.01-P	S01.04-P	S11.07-P	S11.05-P	S11.06-P
		S06.01-P	S04.05-P	S02.05-P	W03.01-P	S12.02-P	S03.03-P
		S08.02-P	S11.02-P	S04.06-P			
18.30-20.00	SPECIAL EVENTS	**ACERO**	**OLMO**	**LECCIO**	**BIANCOSPINO**	**ALLORO**	**MIRTO**
		BM07	BM01	BM08/AIP	SC02	R02	R03
THURSDAY 5	**BLOCKS**	**ACERO**	**OLMO**	**LECCIO**	**BIANCOSPINO**	**ALLORO**	**MIRTO**
08.30-10.00	I	S02.02	S02.03	S11.09a	S07.03a	S11.04	S08.04a
10.30-12.00	II	S05.03a	S04.01a	S11.09b	S07.03b	S04.07	S08.04b
13.30-15.00	III	S05.03b	S04.01b	S07.01a	S09.02	S02.01	S01.02
15.30-17.00	IV	S05.03c	S04.01c	S07.01b	S09.01	S01.03	S05.02
17.00-18.30	POSTER PRESENTATIONS	POSTER AREAS					
		S02.02-P	S07.01-P	S09.02-P	S02.01-P	S08.04-P	S05.02-P
		S05.03-P	S11.09-P	S04.07-P	S04.01-P	S09.01-P	S01.03-P
		S02.03-P	S07.03-P	S01.02-P			
18.30-20.00	SPECIAL EVENTS	**ACERO**	**OLMO**	**LECCIO**	**BIANCOSPINO**	**ALLORO**	**MIRTO**
		BM06	BM02	BM05	TD01	OD01	
FRIDAY 6	**BLOCKS**	**ACERO**	**OLMO**	**LECCIO**	**BIANCOSPINO**	**ALLORO**	**MIRTO**
08.30-10.00	I	S04.02a	S12.01	S07.06a	S13.04	S04.03	S13.01a
10.30-12.00	II	S04.02b	S07.07a	S07.06b	S12.06a	S10.02	S13.01b
13.30-15.00	III	S11.03a	S07.07b	S12.04a	S12.06b	S12.03	S13.03
15.30-17.00	IV	S11.03b	S07.07c	S12.04b	S08.03	S12.05	S13.05
17.00-18.30	POSTER PRESENTATIONS	POSTER AREAS					
		S11.03-P	S12.05-P	S12.06-P	S12.03-P	S13.03-P	S08.03-P
		S12.01-P	S13.04-P	S10.02-P	S04.02-P	S07.06-P	
		S07.07-P	S13.01-P	S04.03-P			
18.30-19.00		CLOSING REMARKS					

SESSION PLANNING

SESSION	TITLE	DAY	BLOCK-TIME	ROOM
S01.01a	SOILS AND SEDIMENTS AS NATURAL ARCHIVES	Wednesday, 04 July 2012	Block I (08:30 - 10.00)	Biancospino
S01.01b	SOILS AND SEDIMENTS AS NATURAL ARCHIVES	Wednesday, 04 July 2012	Block II (10:30 - 12.00)	Biancospino
S01.02	WETLAND, FLOODPLAIN, RIPARIAN SOILS: PROPERTIES, PROCESSES AND ECOLOGICAL FUNCTIONS	Thursday, 05 July 2012	Block III (13:30 - 15.00)	Mirto
S01.03	EVOLUTION AND PROPERTIES OF PADDY AND WETLAND SOILS	Thursday, 05 July 2012	Block IV (15:30 - 17.00)	Alloro
S01.04	SOIL RESEARCH FOR EUROPEAN CITIES	Wednesday, 04 July 2012	Block III (13:30 - 15.00)	Leccio
S02.01	INITIAL SOILS – FORMATION, PROPERTIES AND THE ROLE OF STRUCTURES	Thursday, 05 July 2012	Block III (13:30 - 15.00)	Alloro
S02.02	EARLY ECOSYSTEM AND SOIL DEVELOPMENT	Thursday, 05 July 2012	Block I (08:30 - 10.00)	Acero
S02.03	PEDODIVERSITY IN SPACE AND TIME: CONCEPTS, MEASUREMENTS, APPLICATIONS.	Thursday, 05 July 2012	Block I (08:30 - 10.00)	Olmo
S02.04	SOIL CLASSIFICATION: USING WRB FOR PROVIDING SOIL INFORMATION AND MAKING HARMONIZED MAPS ON A EUROPEAN LEVEL	Tuesday, 03 July 2012	Block III (13:30 - 15.00)	Alloro
S02.05a	BIOLOGICAL WEATHERING AND CYCLING OF IRON, SILICON AND OTHER MAJOR AND TRANCE ELEMENTS IN SOIL	Wednesday, 04 July 2012	Block III (13:30 - 15.00)	Biancospino
S02.05b	BIOLOGICAL WEATHERING AND CYCLING OF IRON, SILICON AND OTHER MAJOR AND TRANCE ELEMENTS IN SOIL	Wednesday, 04 July 2012	Block IV (15:30 - 17.00)	Biancospino
S03.01a	SOIL DEGRADATION	Monday 02 July, 2012	Block III (13:30 - 15.00)	Acero
S03.01b	SOIL DEGRADATION	Monday 02 July, 2012	Block IV (15:30 - 17.00)	Acero
S03.01c	SOIL DEGRADATION	Tuesday, 03 July 2012	Block I (08:30 - 10.00)	Acero
S03.02a	SOIL EROSION AND DEGRADATION ON AGRICULTURE LAND	Tuesday, 03 July 2012	Block II (10:30 - 12.00)	Leccio
S03.02b	SOIL EROSION AND DEGRADATION ON AGRICULTURE LAND	Tuesday, 03 July 2012	Block III (13:30 - 15.00)	Leccio
S03.02c	SOIL EROSION AND DEGRADATION ON AGRICULTURE LAND	Tuesday, 03 July 2012	Block IV (15:30 - 17.00)	Leccio
S03.03	FOREST FIRE EFFECTS ON SOIL SUSTAINABILITY	Wednesday, 04 July 2012	Block I (08:30 - 10.00)	Mirto
W03.01	SOIL DEGRADATION IN THE MEDITERRANEAN: A NEVER ENDING STORY THAT STILL NEEDS SOLUTIONS	Wednesday, 04 July 2012	Block II (10:30 - 12.00)	Mirto
S04.01a	APPLICATION OF PROXIMAL SOIL SENSING (PPS) IN SOIL SCIENCE	Thursday, 05 July 2012	Block II (10:30 - 12.00)	Olmo
S04.01b	APPLICATION OF PROXIMAL SOIL SENSING (PPS) IN SOIL SCIENCE	Thursday, 05 July 2012	Block III (13:30 - 15.00)	Olmo
S04.01c	APPLICATION OF PROXIMAL SOIL SENSING (PPS) IN SOIL SCIENCE	Thursday, 05 July 2012	Block IV (15:30 - 17.00)	Olmo
S04.02a	REMOTE SENSING TECHNIQUES FOR SOIL CHARACTERIZATION AND MONITORING	Friday, 06 July 2012	Block I (08:30 - 10.00)	Acero
S04.02b	REMOTE SENSING TECHNIQUES FOR SOIL CHARACTERIZATION AND MONITORING	Friday, 06 July 2012	Block II (10:30 - 12.00)	Acero
S04.03	SOIL MICRO-HETEROGENEITY: NOVEL MEASUREMENT TECHNIQUES, MODELLING AND MACROSCOPIC IMPACTS	Friday, 06 July 2012	Block I (08:30 - 10.00)	Alloro
S04.04	LANDSCAPE-SCALE MODELLING OF SOIL PROCESSES IN AGROECOSYSTEMS	Monday 02 July, 2012	Block IV (15:30 - 17.00)	Alloro
S04.05a	ASSESSING SOIL SYSTEMS AND FUNCTIONS BY MODELING INTERACTIVE PROCESSES	Wednesday, 04 July 2012	Block I (08:30 - 10.00)	Alloro
S04.05b	ASSESSING SOIL SYSTEMS AND FUNCTIONS BY MODELING INTERACTIVE PROCESSES	Wednesday, 04 July 2012	Block II (10:30 - 12.00)	Alloro
S04.06	CURRENT ISSUES AND APPLICATIONS OF SOIL MONITORING	Wednesday, 04 July 2012	Block III (13:30 - 15.00)	Alloro
S04.07	SYNCHROTRON RADIATION IN SOIL SCIENCE: APPLICATIONS AND METHOD DEVELOPMENT	Thursday, 05 July 2012	Block II (10:30 - 12.00)	Alloro
S05.01a	SOIL ORGANIC MATTER AMENDMENTS: IMPACTS, BENEFITS, AND RISKS	Tuesday, 03 July 2012	Block II (10:30 - 12.00)	Olmo
S05.01b	SOIL ORGANIC MATTER AMENDMENTS: IMPACTS, BENEFITS, AND RISKS	Tuesday, 03 July 2012	Block III (13:30 - 15.00)	Olmo
S05.01c	SOIL ORGANIC MATTER AMENDMENTS: IMPACTS, BENEFITS, AND RISKS	Tuesday, 03 July 2012	Block IV (15:30 - 17.00)	Olmo
S05.02	IMPACTS OF SOIL AMENDMENTS ON TRANSFORMATION AND SORPTION OF BIOLOGICALLY ACTIVE SUBSTANCES IN SOIL	Thursday, 05 July 2012	Block IV (15:30 - 17.00)	Mirto
S05.03a	BIOCHAR EFFECTS ON SOIL PROPERTIES, PROCESSES AND FUNCTIONS	Thursday, 05 July 2012	Block I (08:30 - 10.00)	Acero
S05.03b	BIOCHAR EFFECTS ON SOIL PROPERTIES, PROCESSES AND FUNCTIONS	Thursday, 05 July 2012	Block III (13:30 - 15.00)	Acero
S05.03c	BIOCHAR EFFECTS ON SOIL PROPERTIES, PROCESSES AND FUNCTIONS	Thursday, 05 July 2012	Block IV (15:30 - 17.00)	Acero
W05.01	RECYCLING OF URBAN WASTE RESOURCES – POSITIVE AND NEGATIVE IMPACTS ON SOIL QUALITY AND THE ENVIRONMENT	Wednesday, 04 July 2012	Block IV (15:30 - 17.00)	Alloro
S06.01a	GREENHOUSE GAS EMISSIONS FROM SOIL UNDER CHANGING ENVIRONMENTAL CONDITIONS: CONCEPTS, MODELING AND OBSERVATIONS	Wednesday, 04 July 2012	Block I (08:30 - 10.00)	Olmo
S06.01b	GREENHOUSE GAS EMISSIONS FROM SOIL UNDER CHANGING ENVIRONMENTAL CONDITIONS: CONCEPTS, MODELING AND OBSERVATIONS	Wednesday, 04 July 2012	Block II (10:30 - 12.00)	Olmo
S06.01c	GREENHOUSE GAS EMISSIONS FROM SOIL UNDER CHANGING ENVIRONMENTAL CONDITIONS: CONCEPTS, MODELING AND OBSERVATIONS	Wednesday, 04 July 2012	Block III (13:30 - 15.00)	Olmo

SESSION	TITLE	DAY	BLOCK-TIME	ROOM
S06.02	SUSTAINABLE AGROECOSYSTEMS IN CLIMATE CHANGE MITIGATION	Monday 02 July, 2012	Block III (13:30 - 15.00)	Mirto
S06.03	SOIL FUNCTIONS IN A CHANGING CLIMATE - RECENT INSIGHTS FROM FIELD EXPERIMENTS	Tuesday, 03 July 2012	Block II (10:30 - 12.00)	Mirto
S06.04	LYSIMETER RESEARCH AND CLIMATE CHANGE	Tuesday, 03 July 2012	Block I (08:30 - 10.00)	Leccio
W06.01a	FOREST BIOENERGY AND SOIL SUSTAINABILITY	Tuesday, 03 July 2012	Block III (13:30 - 15.00)	Mirto
W06.01b	FOREST BIOENERGY AND SOIL SUSTAINABILITY	Tuesday, 03 July 2012	Block IV (15:30 - 17.00)	Mirto
S07.01a	SOIL ORGANIC MATTER FROM BULK TO MOLECULAR SCALE: INNOVATIVE METHODS AND APPLICATIONS	Thursday, 05 July 2012	Block III (13:30 - 15.00)	Leccio
S07.01b	SOIL ORGANIC MATTER FROM BULK TO MOLECULAR SCALE: INNOVATIVE METHODS AND APPLICATIONS	Thursday, 05 July 2012	Block IV (15:30 - 17.00)	Leccio
S07.02	INNOVATION AND SOIL SCIENCE - APPLICATION OF ADVANCED NMR AND MRI TECHNIQUES FOR IMPROVING OUR UNDERSTANDING OF SOIL ORGANIC MATTER FORMATION AND ITS INTERACTION WITH THE MINERAL PHASE	Tuesday, 03 July 2012	Block I (08:30 - 10.00)	Mirto
S07.03a	MOLECULAR DYNAMICS OF SOIL ORGANIC MATTER: CHALLENGES, OPPORTUNITIES AND LIMITS	Thursday, 05 July 2012	Block I (08:30 - 10.00)	Biancospino
S07.03b	MOLECULAR DYNAMICS OF SOIL ORGANIC MATTER: CHALLENGES, OPPORTUNITIES AND LIMITS	Thursday, 05 July 2012	Block II (10:30 - 12.00)	Biancospino
S07.04	SOIL ORGANIC MATTER DYNAMICS AND CLIMATE	Wednesday, 04 July 2012	Block I (08:30 - 10.00)	Acero
S07.05	DYNAMICS OF SUBSOIL ORGANIC CARBON IN RELATION TO SOIL PROPERTIES, CLIMATE AND BIOTA	Monday 02 July, 2012	Block III (13:30 - 15.00)	Alloro
S07.06a	MECHANISMS OF C STABILIZATION AND SEQUESTRATION IN SOILS	Friday, 06 July 2012	Block I (08:30 - 10.00)	Leccio
S07.06b	MECHANISMS OF C STABILIZATION AND SEQUESTRATION IN SOILS	Friday, 06 July 2012	Block II (10:30 - 12.00)	Leccio
S07.07a	LONG-TERM EFFECTS OF AGRONOMIC PRACTICES ON SOIL ORGANIC MATTER AND CROP PRODUCTIVITY	Friday, 06 July 2012	Block II (10:30 - 12.00)	Olmo
S07.07b	LONG-TERM EFFECTS OF AGRONOMIC PRACTICES ON SOIL ORGANIC MATTER AND CROP PRODUCTIVITY	Friday, 06 July 2012	Block III (13:30 - 15.00)	Olmo
S07.07c	LONG-TERM EFFECTS OF AGRONOMIC PRACTICES ON SOIL ORGANIC MATTER AND CROP PRODUCTIVITY	Friday, 06 July 2012	Block IV (15:30 - 17.00)	Olmo
S08.01a	HYDROPEDOLOGY, INCLUDING APPLICATIONS IN A KARST ENVIRONMENT	Tuesday, 03 July 2012	Block I (08:30 - 10.00)	Alloro
S08.01b	HYDROPEDOLOGY, INCLUDING APPLICATIONS IN A KARST ENVIRONMENT	Tuesday, 03 July 2012	Block II (10:30 - 12.00)	Alloro
S08.02a	SOIL AND WATER INTERACTIONS AS ONE OF MAJOR DRIVING FORCES IN ENVIRONMENT	Wednesday, 04 July 2012	Block I (08:30 - 10.00)	Leccio
S08.02b	SOIL AND WATER INTERACTIONS AS ONE OF MAJOR DRIVING FORCES IN ENVIRONMENT	Wednesday, 04 July 2012	Block II (10:30 - 12.00)	Leccio
S08.03	PEDOTRANSFER FUNCTIONS IN SOIL HYDROLOGY: STILL A MYTH, OR A PLEASANT REALITY? APPLICATIONS, VALIDATIONS, AND CASE STUDIES	Friday, 06 July 2012	Block IV (15:30 - 17.00)	Biancospino
S08.04a	DYNAMIC NON-EQUILIBRIUM OF FLOW IN UNSATURATED POROUS MEDIA	Thursday, 05 July 2012	Block I (08:30 - 10.00)	Mirto
S08.04b	DYNAMIC NON-EQUILIBRIUM OF FLOW IN UNSATURATED POROUS MEDIA	Thursday, 05 July 2012	Block II (10:30 - 12.00)	Mirto
S09.01	SOIL MICROMORPHOLOGY: A JOURNEY FROM SOIL GENESIS TO NEW INTERDISCIPLINARY ADVANCEMENTS	Thursday, 05 July 2012	Block IV (15:30 - 17.00)	Biancospino
S09.02	BIOGEOCHEMICAL INTERFACES IN SOIL: ARCHITECTURE, PROPERTIES AND FUNCTIONS	Thursday, 05 July 2012	Block III (13:30 - 15.00)	Biancospino
S10.01a	PLANT SOIL INTERACTIONS FROM THE RHIZOSPHERE TO THE FIELD SCALE	Monday 02 July, 2012	Block III (13:30 - 15.00)	Olmo
S10.01b	PLANT SOIL INTERACTIONS FROM THE RHIZOSPHERE TO THE FIELD SCALE	Monday 02 July, 2012	Block IV (15:30 - 17.00)	Olmo
S10.01c	PLANT SOIL INTERACTIONS FROM THE RHIZOSPHERE TO THE FIELD SCALE	Tuesday, 03 July 2012	Block I (08:30 - 10.00)	Olmo
S10.02	NEW TECHNOLOGIES TO DETERMINE THE SOIL INFLUENCE ON WINE GRAPE AND OTHER QUALITY CROPS	Friday, 06 July 2012	Block II (10:30 - 12.00)	Alloro
S10.03a	INFLUENCES OF TREE SPECIES ON FOREST SOILS	Tuesday, 03 July 2012	Block I (08:30 - 10.00)	Biancospino
S10.03b	INFLUENCES OF TREE SPECIES ON FOREST SOILS	Tuesday, 03 July 2012	Block II (10:30 - 12.00)	Biancospino
S10.03c	INFLUENCES OF TREE SPECIES ON FOREST SOILS	Tuesday, 03 July 2012	Block III (13:30 - 15.00)	Biancospino
S11.01a	IMPACT OF CLIMATE CHANGE ON SOIL BIOCHEMICAL ACTIVITY WITH SPECIAL EMPHASIS ON SOIL RESPIRATION	Monday 02 July, 2012	Block III (13:30 - 15.00)	Biancospino
S11.01b	IMPACT OF CLIMATE CHANGE ON SOIL BIOCHEMICAL ACTIVITY WITH SPECIAL EMPHASIS ON SOIL RESPIRATION	Monday 02 July, 2012	Block IV (15:30 - 17.00)	Biancospino
S11.02a	SOIL BIODIVERSITY AND ECOSYSTEM SERVICES	Wednesday, 04 July 2012	Block II (10:30 - 12.00)	Acero
S11.02b	SOIL BIODIVERSITY AND ECOSYSTEM SERVICES	Wednesday, 04 July 2012	Block III (13:30 - 15.00)	Acero
S11.02c	SOIL BIODIVERSITY AND ECOSYSTEM SERVICES	Wednesday, 04 July 2012	Block IV (15:30 - 17.00)	Acero
S11.03a	ECOSYSTEM SERVICES AND FUNCTIONS DRIVEN BY THE DIVERSITY OF SOIL BIOTA	Friday, 06 July 2012	Block III (13:30 - 15.00)	Acero
S11.03b	ECOSYSTEM SERVICES AND FUNCTIONS DRIVEN BY THE DIVERSITY OF SOIL BIOTA	Friday, 06 July 2012	Block IV (15:30 - 17.00)	Acero

SESSION	TITLE	DAY	BLOCK-TIME	ROOM
S11.04	ORGANIC MATTER DECOMPOSITION: DOES SOIL DIVERSITY MATTER?	Thursday, 05 July 2012	Block I (08:30 - 10.00)	Alloro
S11.05	NITROGEN TURNOVER AND GLOBAL CHANGE - INFLUENCE OF ECOSYSTEM DEVELOPMENT, CLIMATE, LAND USE AND XENOBIOTICS ON ABUNDANCE, DIVERSITY AND ACTIVITY OF SOIL MICROBIAL KEY PLAYERS	Wednesday, 04 July 2012	Block III (13:30 - 15.00)	Mirto
S11.06	BIOGEOGRAPHY OF SOIL MICROORGANISMS - Sponsored by IUSS	Wednesday, 04 July 2012	Block IV (15:30 - 17.00)	Mirto
S11.07	BIOTIC AND ABIOTIC DRIVERS OF PRIMING EFFECTS	Wednesday, 04 July 2012	Block IV (15:30 - 17.00)	Leccio
S11.08	PHYSICO-CHEMICAL PROCESSES GOVERNING THE FATE AND TRANSPORT OF PATHOGENS AND BIOMACROMOLECULES IN SOILS	Monday 02 July, 2012	Block IV (15:30 - 17.00)	Mirto
S11.09a	UNDERSTANDING MINERAL-ORGANIC-MICROBIAL INTERACTIONS IN SOILS AND THE CONSEQUENCES FOR BIOLOGICAL AND BIOCHEMICAL ACTIVITY AND THE EFFICIENCY OF ROCK FLOUR AMENDMENTS	Thursday, 05 July 2012	Block I (08:30 - 10.00)	Leccio
S11.09b	UNDERSTANDING MINERAL-ORGANIC-MICROBIAL INTERACTIONS IN SOILS AND THE CONSEQUENCES FOR BIOLOGICAL AND BIOCHEMICAL ACTIVITY AND THE EFFICIENCY OF ROCK FLOUR AMENDMENTS	Thursday, 05 July 2012	Block II (10:30 - 12.00)	Leccio
W11.01	THROUGH EYE OF THE NEEDLE: THE SOIL MICROBIAL BIOMASS CONCEPT FROM NUTRIENT CYCLING TO GLOBAL WARMING - Dedicated to the memory of Professor David Jenkinson	Tuesday, 03 July 2012	Block IV (15:30 - 17.00)	Alloro
S12.01	PEDOLOGICAL PROCESSES AND SOIL POLLUTION	Friday, 06 July 2012	Block I (08:30 - 10.00)	Olmo
S12.02	EMERGING ORGANIC POLLUTANTS - FROM THE WASTEWATER TREATMENT FACILITY TO THE AGRICULTURAL FIELD	Wednesday, 04 July 2012	Block IV (15:30 - 17.00)	Olmo
S12.03	BIOGEOCHEMISTRY OF CONTAMINANTS IN WETLAND AND RIVER FLOODPLAIN SOILS	Friday, 06 July 2012	Block III (13:30 - 15.00)	Alloro
S12.04a	BIOREMEDIATION OF SOILS AND SEDIMENTS CONTAMINATED WITH ORGANIC CHEMICALS: ASSESSING AND OVERCOMING CHEMICAL AND MICROBIOLOGICAL CONSTRAINTS	Friday, 06 July 2012	Block III (13:30 - 15.00)	Leccio
S12.04b	BIOREMEDIATION OF SOILS AND SEDIMENTS CONTAMINATED WITH ORGANIC CHEMICALS: ASSESSING AND OVERCOMING CHEMICAL AND MICROBIOLOGICAL CONSTRAINTS	Friday, 06 July 2012	Block IV (15:30 - 17.00)	Leccio
S12.05	SPECIATION AND LOSSES OF PHOSPHORUS AND METALS FROM SOILS AN MITIGATION MEASURES	Friday, 06 July 2012	Block IV (15:30 - 17.00)	Alloro
S12.06a	OPPORTUNITIES AND CHALLENGES IN MINE SITE REHABILITATION	Friday, 06 July 2012	Block II (10:30 - 12.00)	Biancospino
S12.06b	OPPORTUNITIES AND CHALLENGES IN MINE SITE REHABILITATION	Friday, 06 July 2012	Block III (13:30 - 15.00)	Biancospino
S12.07a	POTENTIALLY HARMFUL ELEMENTS IN SOILS	Tuesday, 03 July 2012	Block II (10:30 - 12.00)	Acero
S12.07b	POTENTIALLY HARMFUL ELEMENTS IN SOILS	Tuesday, 03 July 2012	Block III (13:30 - 15.00)	Acero
S12.07c	POTENTIALLY HARMFUL ELEMENTS IN SOILS	Tuesday, 03 July 2012	Block IV (15:30 - 17.00)	Acero
W12.01a	PESTICIDES IN SOIL, FATE AND EFFECTS ON ENVIRONMENT - In collaboration with GRIFA	Monday 02 July, 2012	Block III (13:30 - 15.00)	Leccio
W12.01b	PESTICIDES IN SOIL, FATE AND EFFECTS ON ENVIRONMENT - In collaboration with GRIFA	Monday 02 July, 2012	Block IV (15:30 - 17.00)	Leccio
S13.01a	SOIL MEMORY: ARCHAEOLOGICAL AND NATURAL HERITAGE PRESERVED IN SOILS	Friday, 06 July 2012	Block I (08:30 - 10.00)	Mirto
S13.01b	SOIL MEMORY: ARCHAEOLOGICAL AND NATURAL HERITAGE PRESERVED IN SOILS	Friday, 06 July 2012	Block II (10:30 - 12.00)	Mirto
S13.02	SOIL STATUS AND SOCIETY	Tuesday, 03 July 2012	Block IV (15:30 - 17.00)	Biancospino
S13.03	SOIL POICY AND SOIL INFORMATION IN A CHANGING WORLD	Friday, 06 July 2012	Block III (13:30 - 15.00)	Mirto
S13.04	INTERNATIONAL CRITICAL ZONE OBSERVATORY RESEARCH FOCUSING ON SOIL	Friday, 06 July 2012	Block I (08:30 - 10.00)	Biancospino
S13.05	TAILORED IMPROVEMENT OF BROWNFIELD REGENERATION IN EUROPE: A DISCUSSION OF STATE-OF-THE-ART APPROACHES, TECHNOLOGIES AND TOOLS, AND COMPARISON WITH INTERNATIONAL CONTEXT	Friday, 06 July 2012	Block IV (15:30 - 17.00)	Mirto
BM01	MEET THE EDITORS	Wednesday, 04 July 2012	(18:30 - 20.00)	Olmo
BM02	BUSINESS MEETING OF IUSS COMMISSION ON PALAEOPEDOLOGY	Thursday, 05 July 2012	(18:30 - 20.00)	Olmo
BM03	EUROPEAN SOIL BUREAU NETWORK (ESBN)	Tuesday, 03 July 2012	(18:30 - 20.00)	Biancospino
BM04	JOINT MEETING OF THE CROPLANDS RESEARCH GROUP AND C-N CROSSCUTTING TEAM OF THE GLOBAL RESEARCH ALLIANCE (GRA)	Tuesday, 03 July 2012	(18:30 - 20.00)	Leccio
BM05	JOINT MEETING OF THE C-N CROSSCUTTING TEAM AND CROPLANDS RESEARCH GROUP OF THE GLOBAL RESEARCH ALLIANCE (GRA)	Thursday, 05 July 2012	(18:30 - 20.00)	Leccio
BM06	GENERAL ASSEMBLY OF THE EUROPEAN CONFEDERATION OF SOIL SCIENCE SOCIETIES (ECSSS)	Thursday, 05 July 2012	(18:30 - 20.00)	Acero
BM07	GENERAL ASSEMBLY OF SOCIETÀ ITALIANA DELLA SCIENZA DEL SUOLO (SISS)	Wednesday, 04 July 2012	(18:30 - 20.00)	Acero
BM08	GET TOGETHER OF ASSOCIAZIONE ITALIANA PEDOLOGI (AIP)	Wednesday, 04 July 2012	(18:30 - 20.00)	Leccio
OD01	SOIL SCIENCE EDUCATION: HOW CAN WE MAKE SOILS SEXY AGAIN?	Thursday, 05 July 2012	(18:30 - 20.00)	Alloro
R01	CURRENT STATE OF KNOWLEDGE AND POTENTIAL FOR FUTURE EXPERIMENTS TO HELP ADVANCE OUR UNDERSTANDING AND MODEL REPRESENTATION OF SOIL ORGANIC CARBON STABILIZATION PROCESSES AND DYNAMICS	Tuesday, 03 July 2012	(18:30 - 20.00)	Alloro
R02	SOIL SCIENCE: ARE WE FACING REAL NEEDS FROM SOCIETY?	Wednesday, 04 July 2012	(18:30 - 20.00)	Alloro
R03	SOIL CONSERVATION POLICIES IN EUROPE: A DISCUSSION OF DIFFERENT IMPLEMENTATION STRATEGIES AND POLICY OPTIONS	Wednesday, 04 July 2012	(18:30 - 20.00)	Mirto
R04	GUIDELINE DEVELOPMENT FOR FOREST BIOENERGY - Sponsored by OECD	Tuesday, 03 July 2012	(18:30 - 20.00)	Mirto
SC02	GLOBAL SOIL INFORMATION FACILITIES - CONTRIBUTION FROM ISRIC WORLD SOIL INFORMATION	Wednesday, 04 July 2012	(18:30 - 20.00)	Biancospino

SESSION	TITLE	DAY	BLOCK-TIME	ROOM
TD01	NEW TECHNIQUES FOR SOIL PARTICLE SIZE ANALYSIS: ADVANCEMENTS AND PROBLEMS	Thursday, 05 July 2012	(18:30 - 20.00)	Biancospino
TM01	THE WAY AHEAD FOR LAND MANAGEMENT AND SOIL CONSERVATION: THE DEVELOPMENT OF SOIL-DRIVEN WEB DECISION SUPPORT SYSTEMS	Tuesday, 03 July 2012	(18:30 - 20.00)	Olmo
S01.01-P	SOILS AND SEDIMENTS AS NATURAL ARCHIVES	Wednesday, 04 July 2012	(17:00 - 18.30)	Ground Floor
S01.02-P	WETLAND, FLOODPLAIN, RIPARIAN SOILS: PROPERTIES, PROCESSES AND ECOLOGICAL FUNCTIONS	Thursday, 05 July 2012	(17:00 - 18.30)	First Floor
S01.03-P	EVOLUTION AND PROPERTIES OF PADDY AND WETLAND SOILS	Thursday, 05 July 2012	(17:00 - 18.30)	First Floor
S01.04-P	SOIL RESEARCH FOR EUROPEAN CITIES	Wednesday, 04 July 2012	(17:00 - 18.30)	First Floor
S02.01-P	INITIAL SOILS – FORMATION, PROPERTIES AND THE ROLE OF STRUCTURES	Thursday, 05 July 2012	(17:00 - 18.30)	Ground Floor
S02.02-P	EARLY ECOSYSTEM AND SOIL DEVELOPMENT	Thursday, 05 July 2012	(17:00 - 18.30)	First Floor
S02.03-P	PEDODIVERSITY IN SPACE AND TIME: CONCEPTS, MEASUREMENTS, APPLICATIONS.	Thursday, 05 July 2012	(17:00 - 18.30)	Ground Floor
S02.04-P	SOIL CLASSIFICATION: USING WRB FOR PROVIDING SOIL INFORMATION AND MAKING HARMONIZED MAPS ON A EUROPEAN LEVEL	Tuesday, 03 July 2012	(17:00 - 18.30)	Ground Floor
S02.05-P	BIOLOGICAL WEATHERING AND CYCLING OF IRON, SILICON AND OTHER MAJOR AND TRANCE ELEMENTS IN SOIL	Wednesday, 04 July 2012	(17:00 - 18.30)	Ground Floor
S03.01-P	SOIL DEGRADATION	Monday 02 July, 2012	(17:00 - 18.30)	Ground Floor
S03.02-P	SOIL EROSION AND DEGRADATION ON AGRICULTURE LAND	Tuesday, 03 July 2012	(17:00 - 18.30)	Ground Floor
S03.03-P	FOREST FIRE EFFECTS ON SOIL SUSTAINABILITY	Wednesday, 04 July 2012	(17:00 - 18.30)	First Floor
W03.01-P	SOIL DEGRADATION IN THE MEDITERRANEAN: A NEVER ENDING STORY THAT STILL NEEDS SOLUTIONS	Wednesday, 04 July 2012	(17:00 - 18.30)	Ground Floor
S04.01-P	APPLICATION OF PROXIMAL SOIL SENSING (PPS) IN SOIL SCIENCE	Thursday, 05 July 2012	(17:00 - 18.30)	Ground Floor
S04.02-P	REMOTE SENSING TECHNIQUES FOR SOIL CHARACTERIZATION AND MONITORING	Friday, 06 July 2012	(17:00 - 18.30)	First Floor
S04.03-P	SOIL MICRO-HETEROGENEITY: NOVEL MEASUREMENT TECHNIQUES, MODELLING AND MACROSCOPIC IMPACTS	Friday, 06 July 2012	(17:00 - 18.30)	Ground Floor
S04.04-P	LANDSCAPE-SCALE MODELLING OF SOIL PROCESSES IN AGROECOSYSTEMS	Monday 02 July, 2012	(17:00 - 18.30)	Ground Floor
S04.05-P	ASSESSING SOIL SYSTEMS AND FUNCTIONS BY MODELING INTERACTIVE PROCESSES	Wednesday, 04 July 2012	(17:00 - 18.30)	First Floor
S04.06-P	CURRENT ISSUES AND APPLICATIONS OF SOIL MONITORING	Wednesday, 04 July 2012	(17:00 - 18.30)	Ground Floor
S04.07-P	SYNCHROTRON RADIATION IN SOIL SCIENCE: APPLICATIONS AND METHOD DEVELOPMENT	Thursday, 05 July 2012	(17:00 - 18.30)	First Floor
S05.01-P	SOIL ORGANIC MATTER AMENDMENTS: IMPACTS, BENEFITS, AND RISKS	Tuesday, 03 July 2012	(17:00 - 18.30)	First Floor
S05.02-P	IMPACTS OF SOIL AMENDMENTS ON TRANSFORMATION AND SORPTION OF BIOLOGICALLY ACTIVE SUBSTANCES IN SOIL	Thursday, 05 July 2012	(17:00 - 18.30)	First Floor
S05.03-P	BIOCHAR EFFECTS ON SOIL PROPERTIES, PROCESSES AND FUNCTIONS	Thursday, 05 July 2012	(17:00 - 18.30)	Ground Floor
W05.01-P	RECYCLING OF URBAN WASTE RESOURCES – POSITIVE AND NEGATIVE IMPACTS ON SOIL QUALITY AND THE ENVIRONMENT	Wednesday, 04 July 2012	(17:00 - 18.30)	Ground Floor
S06.01-P	GREENHOUSE GAS EMISSIONS FROM SOIL UNDER CHANGING ENVIRONMENTAL CONDITIONS: CONCEPTS, MODELING AND OBSERVATIONS	Wednesday, 04 July 2012	(17:00 - 18.30)	Ground Floor
S06.02-P	SUSTAINABLE AGROECOSYSTEMS IN CLIMATE CHANGE MITIGATION	Monday 02 July, 2012	(17:00 - 18.30)	First Floor
S06.03-P	SOIL FUNCTIONS IN A CHANGING CLIMATE - RECENT INSIGHTS FROM FIELD EXPERIMENTS	Tuesday, 03 July 2012	(17:00 - 18.30)	First Floor
S06.04-P	LYSIMETER RESEARCH AND CLIMATE CHANGE	Tuesday, 03 July 2012	(17:00 - 18.30)	Ground Floor
W06.01-P	FOREST BIOENERGY AND SOIL SUSTAINABILITY	Tuesday, 03 July 2012	(17:00 - 18.30)	Ground Floor
S07.01-P	SOIL ORGANIC MATTER FROM BULK TO MOLECULAR SCALE: INNOVATIVE METHODS AND APPLICATIONS	Thursday, 05 July 2012	(17:00 - 18.30)	First Floor
S07.02-P	INNOVATION AND SOIL SCIENCE - APPLICATION OF ADVANCED NMR AND MRI TECHNIQUES FOR IMPROVING OUR UNDERSTANDING OF SOIL ORGANIC MATTER FORMATION AND ITS INTERACTION WITH THE MINERAL PHASE	Tuesday, 03 July 2012	(17:00 - 18.30)	First Floor
S07.03-P	MOLECULAR DYNAMICS OF SOIL ORGANIC MATTER: CHALLENGES, OPPORTUNITIES AND LIMITS	Thursday, 05 July 2012	(17:00 - 18.30)	Ground Floor
S07.04-P	SOIL ORGANIC MATTER DYNAMICS AND CLIMATE	Monday 02 July, 2012	(17:00 - 18.30)	Ground Floor
S07.05-P	DYNAMICS OF SUBSOIL ORGANIC CARBON IN RELATION TO SOIL PROPERTIES, CLIMATE AND BIOTA	Monday 02 July, 2012	(17:00 - 18.30)	First Floor
S07.06-P	MECHANISMS OF C STABILIZATION AND SEQUESTRATION IN SOILS	Friday, 06 July 2012	(17:00 - 18.30)	Ground Floor
S07.07-P	LONG-TERM EFFECTS OF AGRONOMIC PRACTICES ON SOIL ORGANIC MATTER AND CROP PRODUCTIVITY	Friday, 06 July 2012	(17:00 - 18.30)	Ground Floor
S08.01-P	HYDROPEDOLOGY, INCLUDING APPLICATIONS IN A KARST ENVIRONMENT	Tuesday, 03 July 2012	(17:00 - 18.30)	Ground Floor
S08.02-P	SOIL AND WATER INTERACTIONS AS ONE OF MAJOR DRIVING FORCES IN ENVIRONMENT	Wednesday, 04 July 2012	(17:00 - 18.30)	Ground Floor
S08.03-P	PEDOTRANSFER FUNCTIONS IN SOIL HYDROLOGY: STILL A MYTH, OR A PLEASANT REALITY? APPLICATIONS, VALIDATIONS, AND CASE STUDIES	Friday, 06 July 2012	(17:00 - 18.30)	First Floor

MONDAY 2 JULY 2012

SPACE 7

08.30-10.00	**OPENING CEREMONY - WELCOMING ADDRESSES**				
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*				
10.30-12.00	**PLENARY LECTURE 1** - *Sponsored by IHSS*		**PLENARY LECTURE 2** - *Sponsored by IHSS*		**PLENARY LECTURE 3**
	GRAND CHALLENGES IN SOIL AND ENVIRONMENTAL SUSTAINABILITY: THE IMPORTANCE OF BASIC BIOGEOCHEMICAL RESEARCH		SOIL COMPACTION – HOW FAR ARE PHYSICAL, CHEMICAL AND BIOLOGICAL PROCESSES AND SOIL FUNCTIONS IRREVERSIBLY AFFECTED ON VARIOUS SCALES AND WHAT ARE THE CONSEQUENCES		DATA AND INFORMATION SYSTEMS FOR THE ASSESSMENT OF EUROPEAN SOIL RESOURCES
	Donald L. Sparks Delaware Environmental Institute, University of Delaware, Newark - USA		*Rainer Horn* Christian-Albrechts-University zu Kiel, Institute of Plant Nutrition and Soil Science, Kiel - Germany		*Luca Montanarella* European Commission JRC, Ispra - Italy
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*				

ORAL SESSIONS - *Pavilion 10*

	ACERO	OLMO	LECCIO	BIANCOSPINO	ALLORO	MIRTO
BLOCK III 13.30-15.00	S03.01a SOIL DEGRADATION	S10.01a PLANT SOIL INTERACTIONS FROM THE RHIZOSPHERE TO THE FIELD SCALE	W12.01a PESTICIDES IN SOIL, FATE AND EFFECTS ON ENVIRONMENT - In collaboration with GRIFA	S11.01a IMPACT OF CLIMATE CHANGE ON SOIL BIOCHEMICAL ACTIVITY WITH SPECIAL EMPHASIS ON SOIL RESPIRATION	S07.05 DYNAMICS OF SUBSOIL ORGANIC CARBON IN RELATION TO SOIL PROPERTIES, CLIMATE AND BIOTA	S06.02 SUSTAINABLE AGROECOSYSTEMS IN CLIMATE CHANGE MITIGATION
15.00-15.30	*COFFEE BREAK - Bar Pavilion 9*					
BLOCK IV 15.30-17.00	S03.01b SOIL DEGRADATION	S10.01b PLANT SOIL INTERACTIONS FROM THE RHIZOSPHERE TO THE FIELD SCALE	W12.01b PESTICIDES IN SOIL, FATE AND EFFECTS ON ENVIRONMENT - In collaboration with GRIFA	S11.01b IMPACT OF CLIMATE CHANGE ON SOIL BIOCHEMICAL ACTIVITY WITH SPECIAL EMPHASIS ON SOIL RESPIRATION	S04.04 LANDSCAPE-SCALE MODELLING OF SOIL PROCESSES IN AGROECOSYSTEMS	S11.08 PHYSICO-CHEMICAL PROCESSES GOVERNING THE FATE AND TRANSPORT OF PATHOGENS AND BIOMACROMOLECULES IN SOILS

POSTER SESSIONS

	FIRST FLOOR - *Pavilion 10*			GROUND FLOOR - *Pavilion 9*		
17.00-18.30	S06.02-P SUSTAINABLE AGROECOSYSTEMS IN CLIMATE CHANGE MITIGATION	S07.05-P DYNAMICS OF SUBSOIL ORGANIC CARBON IN RELATION TO SOIL PROPERTIES, CLIMATE AND BIOTA	S11.01-P IMPACT OF CLIMATE CHANGE ON SOIL BIOCHEMICAL ACTIVITY WITH SPECIAL EMPHASIS ON SOIL RESPIRATION	S03.01-P SOIL DEGRADATION	S04.04-P LANDSCAPE-SCALE MODELLING OF SOIL PROCESSES IN AGROECOSYSTEMS	S07.04-P SOIL ORGANIC MATTER DYNAMICS AND CLIMATE
	S12.04-P BIOREMEDIATION OF SOILS AND SEDIMENTS CONTAMINATED WITH ORGANIC CHEMICALS: ASSESSING AND OVERCOMING CHEMICAL AND MICROBIOLOGICAL CONSTRAINTS	W12.01-P PESTICIDES IN SOIL, FATE AND EFFECTS ON ENVIRONMENT - In collaboration with GRIFA	S13.05-P TAILORED IMPROVEMENT OF BROWNFIELD REGENERATION IN EUROPE: A DISCUSSION OF STATE-OF-THE-ART APPROACHES, TECHNOLOGIES AND TOOLS, AND COMPARISON WITH INTERNATIONAL CONTEXT	S10.01-P PLANT SOIL INTERACTIONS FROM THE RHIZOSPHERE TO THE FIELD SCALE	S11.04-P ORGANIC MATTER DECOMPOSITION: DOES SOIL DIVERSITY MATTER?	S11.08-P PHYSICO-CHEMICAL PROCESSES GOVERNING THE FATE AND TRANSPORT OF PATHOGENS AND BIOMACROMOLECULES IN SOILS
18.30-20.00	**WELCOME RECEPTION** - *Pavilion 9*					

TUESDAY 3 JULY 2012

ORAL SESSIONS - *Pavilion 10*

	ACERO	OLMO	LECCIO	BIANCOSPINO	ALLORO	MIRTO
BLOCK I 08.30-10.00	S03.01c SOIL DEGRADATION	S10.01c PLANT SOIL INTERACTIONS FROM THE RHIZOSPHERE TO THE FIELD SCALE	S06.04 LYSIMETER RESEARCH AND CLIMATE CHANGE	S10.03a INFLUENCES OF TREE SPECIES ON FOREST SOILS	S08.01a HYDROPEDOLOGY, INCLUDING APPLICATIONS IN A KARST ENVIRONMENT	S07.02 INNOVATION AND SOIL SCIENCE - APPLICATION OF ADVANCED NMR AND MRI TECHNIQUES FOR IMPROVING OUR UNDERSTANDING OF SOIL ORGANIC MATTER FORMATION AND ITS INTERACTION WITH THE MINERAL PHASE
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*					
BLOCK II 10.30-12.00	S12.07a POTENTIALLY HARMFUL ELEMENTS IN SOILS	S05.01a SOIL ORGANIC MATTER AMENDMENTS: IMPACTS, BENEFITS, AND RISKS	S03.02a SOIL EROSION AND DEGRADATION ON AGRICULTURE LAND	S10.03b INFLUENCES OF TREE SPECIES ON FOREST SOILS	S08.01b HYDROPEDOLOGY, INCLUDING APPLICATIONS IN A KARST ENVIRONMENT	S06.03 SOIL FUNCTIONS IN A CHANGING CLIMATE - RECENT INSIGHTS FROM FIELD EXPERIMENTS
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*					
BLOCK III 13.30-15.00	S12.07b POTENTIALLY HARMFUL ELEMENTS IN SOILS	S05.01b SOIL ORGANIC MATTER AMENDMENTS: IMPACTS, BENEFITS, AND RISKS	S03.02b SOIL EROSION AND DEGRADATION ON AGRICULTURE LAND	S10.03c INFLUENCES OF TREE SPECIES ON FOREST SOILS	S02.04 SOIL CLASSIFICATION: USING WRB FOR PROVIDING SOIL INFORMATION AND MAKING HARMONIZED MAPS ON A EUROPEAN LEVEL	W06.01a FOREST BIOENERGY AND SOIL SUSTAINABILITY
15.00-15.30	*COFFEE BREAK - Bar Pavilion 9*					
BLOCK IV 15.30-17.00	S12.07c POTENTIALLY HARMFUL ELEMENTS IN SOILS	S05.01c SOIL ORGANIC MATTER AMENDMENTS: IMPACTS, BENEFITS, AND RISKS	S03.02c SOIL EROSION AND DEGRADATION ON AGRICULTURE LAND	S13.02 SOIL STATUS AND SOCIETY	W11.01 THROUGH EYE OF THE NEEDLE: THE SOIL MICROBIAL BIOMASS CONCEPT FROM NUTRIENT CYCLING TO GLOBAL WARMING - Dedicated to the memory of Professor David Jenkinson	W06.01b FOREST BIOENERGY AND SOIL SUSTAINABILITY

POSTER SESSIONS

	FIRST FLOOR - *Pavilion 10*			GROUND FLOOR - *Pavilion 9*		
17.00-18.30	S05.01-P SOIL ORGANIC MATTER AMENDMENTS: IMPACTS, BENEFITS, AND RISKS	S06.03-P SOIL FUNCTIONS IN A CHANGING CLIMATE - RECENT INSIGHTS FROM FIELD EXPERIMENTS	S07.02-P INNOVATION AND SOIL SCIENCE - APPLICATION OF ADVANCED NMR AND MRI TECHNIQUES FOR IMPROVING OUR UNDERSTANDING OF SOIL ORGANIC MATTER FORMATION AND ITS INTERACTION WITH THE MINERAL PHASE	S02.04-P SOIL CLASSIFICATION: USING WRB FOR PROVIDING SOIL INFORMATION AND MAKING HARMONIZED MAPS ON A EUROPEAN LEVEL	S03.02-P SOIL EROSION AND DEGRADATION ON AGRICULTURE LAND	S06.04-P LYSIMETER RESEARCH AND CLIMATE CHANGE
	W11.01-P THROUGH EYE OF THE NEEDLE: THE SOIL MICROBIAL BIOMASS CONCEPT FROM NUTRIENT CYCLING TO GLOBAL WARMING - Dedicated to the memory of Professor David Jenkinson	S13.02-P SOIL STATUS AND SOCIETY		W06.01-P FOREST BIOENERGY AND SOIL SUSTAINABILITY	S08.01-P HYDROPEDOLOGY, INCLUDING APPLICATIONS IN A KARST ENVIRONMENT	S10.03-P INFLUENCES OF TREE SPECIES ON FOREST SOILS
				S12.07-P POTENTIALLY HARMFUL ELEMENTS IN SOILS		

SPECIAL EVENTS - *Pavilion 10*

	ACERO	OLMO	LECCIO	BIANCOSPINO	ALLORO	MIRTO
18.30-20.00	SC01 *(CANCELLED)*	TM01 THE WAY AHEAD FOR LAND MANAGEMENT AND SOIL CONSERVATION: THE DEVELOPMENT OF SOIL-DRIVEN WEB DECISION SUPPORT SYSTEMS	BM04 JOINT MEETING OF THE CROPLANDS RESEARCH GROUP AND C-N CROSSCUTTING TEAM OF THE GLOBAL RESEARCH ALLIANCE (GRA)	BM03 EUROPEAN SOIL BUREAU NETWORK (ESBN)	R01 CURRENT STATE OF KNOWLEDGE AND POTENTIAL FOR FUTURE EXPERIMENTS TO HELP ADVANCE OUR UNDERSTANDING AND MODEL REPRESENTATION OF SOIL ORGANIC CARBON STABILIZATION PROCESSES AND DYNAMICS	R04 GUIDELINE DEVELOPMENT FOR FOREST BIOENERGY - Sponsored by OECD

WEDNESDAY 4 JULY 2012

ORAL SESSIONS - *Pavilion 10*

	ACERO	OLMO	LECCIO	BIANCOSPINO	ALLORO	MIRTO
BLOCK I 08.30-10.00	S07.04 SOIL ORGANIC MATTER DYNAMICS AND CLIMATE	S06.01a GREENHOUSE GAS EMISSIONS FROM SOIL UNDER CHANGING ENVIRONMENTAL CONDITIONS: CONCEPTS, MODELING AND	S08.02a SOIL AND WATER INTERACTIONS AS ONE OF MAJOR DRIVING FORCES IN ENVIRONMENT	S01.01a SOILS AND SEDIMENTS AS NATURAL ARCHIVES	S04.05a ASSESSING SOIL SYSTEMS AND FUNCTIONS BY MODELING INTERACTIVE PROCESSES	S03.03 FOREST FIRE EFFECTS ON SOIL SUSTAINABILITY
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*					
BLOCK II 10.30-12.00	S11.02a SOIL BIODIVERSITY AND ECOSYSTEM SERVICES	S06.01b GREENHOUSE GAS EMISSIONS FROM SOIL UNDER CHANGING ENVIRONMENTAL CONDITIONS: CONCEPTS, MODELING AND OBSERVATIONS	S08.02b SOIL AND WATER INTERACTIONS AS ONE OF MAJOR DRIVING FORCES IN ENVIRONMENT	S01.01b SOILS AND SEDIMENTS AS NATURAL ARCHIVES	S04.05b ASSESSING SOIL SYSTEMS AND FUNCTIONS BY MODELING INTERACTIVE PROCESSES	W03.01 SOIL DEGRADATION IN THE MEDITERRANEAN: A NEVER ENDING STORY THAT STILL NEEDS SOLUTIONS
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*					
BLOCK III 13.30-15.00	S11.02b SOIL BIODIVERSITY AND ECOSYSTEM SERVICES	S06.01c GREENHOUSE GAS EMISSIONS FROM SOIL UNDER CHANGING ENVIRONMENTAL CONDITIONS: CONCEPTS, MODELING AND OBSERVATIONS	S01.04 SOIL RESEARCH FOR EUROPEAN CITIES	S02.05a BIOLOGICAL WEATHERING AND CYCLING OF IRON, SILICON AND OTHER MAJOR AND TRANCE ELEMENTS IN SOIL	S04.06 CURRENT ISSUES AND APPLICATIONS OF SOIL MONITORING	S11.05 NITROGEN TURNOVER AND GLOBAL CHANGE - INFLUENCE OF ECOSYSTEM DEVELOPMENT, CLIMATE, LAND USE AND XENOBIOTICS ON ABUNDANCE, DIVERSITY AND ACTIVITY OF SOIL MICROBIAL KEY PLAYERS
15.00-15.30	*COFFEE BREAK - Bar Pavilion 9*					
BLOCK IV 15.30-17.00	S11.02c SOIL BIODIVERSITY AND ECOSYSTEM SERVICES	S12.02 EMERGING ORGANIC POLLUTANTS - FROM THE WASTEWATER TREATMENT FACILITY TO THE AGRICULTURAL FIELD	S11.07 BIOTIC AND ABIOTIC DRIVERS OF PRIMING EFFECTS	S02.05b BIOLOGICAL WEATHERING AND CYCLING OF IRON, SILICON AND OTHER MAJOR AND TRANCE ELEMENTS IN SOIL	W05.01 RECYCLING OF URBAN WASTE RESOURCES – POSITIVE AND NEGATIVE IMPACTS ON SOIL QUALITY AND THE ENVIRONMENT	S11.06 BIOGEOGRAPHY OF SOIL MICROORGANISMS - Sponsored by IUSS

POSTER SESSIONS

	FIRST FLOOR - *Pavilion 10*			GROUND FLOOR - *Pavilion 9*		
17.00-18.30	S01.04-P SOIL RESEARCH FOR EUROPEAN CITIES	S03.03-P FOREST FIRE EFFECTS ON SOIL SUSTAINABILITY	S04.05-P ASSESSING SOIL SYSTEMS AND FUNCTIONS BY MODELING INTERACTIVE PROCESSES	S01.01-P SOILS AND SEDIMENTS AS NATURAL ARCHIVES	S02.05-P BIOLOGICAL WEATHERING AND CYCLING OF IRON, SILICON AND OTHER MAJOR AND TRANCE ELEMENTS IN SOIL	W03.01-P SOIL DEGRADATION IN THE MEDITERRANEAN: A NEVER ENDING STORY THAT STILL NEEDS SOLUTIONS
	S11.02-P SOIL BIODIVERSITY AND ECOSYSTEM SERVICES	S11.06-P BIOGEOGRAPHY OF SOIL MICROORGANISMS - Sponsored by IUSS	S12.02-P EMERGING ORGANIC POLLUTANTS - FROM THE WASTEWATER TREATMENT FACILITY TO THE AGRICULTURAL FIELD	S04.06-P CURRENT ISSUES AND APPLICATIONS OF SOIL MONITORING	W05.01-P RECYCLING OF URBAN WASTE RESOURCES – POSITIVE AND NEGATIVE IMPACTS ON SOIL QUALITY AND THE ENVIRONMENT	S06.01-P GREENHOUSE GAS EMISSIONS FROM SOIL UNDER CHANGING ENVIRONMENTAL CONDITIONS: CONCEPTS, MODELING AND OBSERVATIONS
				S08.02-P SOIL AND WATER INTERACTIONS AS ONE OF MAJOR DRIVING FORCES IN ENVIRONMENT	S11.05-P NITROGEN TURNOVER AND GLOBAL CHANGE - INFLUENCE OF ECOSYSTEM DEVELOPMENT, CLIMATE, LAND USE AND XENOBIOTICS ON ABUNDANCE, DIVERSITY AND ACTIVITY OF SOIL MICROBIAL KEY PLAYERS	S11.07-P BIOTIC AND ABIOTIC DRIVERS OF PRIMING EFFECTS

SPECIAL EVENTS - *Pavilion 10*

	ACERO	OLMO	LECCIO	BIANCOSPINO	ALLORO	MIRTO
18.30-20.00	BM07 *GENERAL ASSEMBLY OF SOCIETÀ ITALIANA DELLA SCIENZA DEL SUOLO (SISS)*	BM01 MEET THE EDITORS	BM08/AIP GET TOGETHER OF ASSOCIAZIONE ITALIANA PEDOLOGI (AIP)	SC02 GLOBAL SOIL INFORMATION FACILITIES - CONTRIBUTION FROM ISRIC WORLD SOIL INFORMATION	R02 SOIL SCIENCE: ARE WE FACING REAL NEEDS FROM SOCIETY?	R03 SOIL CONSERVATION POLICIES IN EUROPE: A DISCUSSION OF DIFFERENT IMPLEMENTATION STRATEGIES AND POLICY OPTIONS

THURSDAY 5 JULY 2012

ORAL SESSIONS - *Pavilion 10*

	ACERO	OLMO	LECCIO	BIANCOSPINO	ALLORO	MIRTO
BLOCK I 08.30-10.00	S02.02 EARLY ECOSYSTEM AND SOIL DEVELOPMENT	S02.03 PEDODIVERSITY IN SPACE AND TIME: CONCEPTS, MEASUREMENTS, APPLICATIONS	S11.09a UNDERSTANDING MINERAL-ORGANIC-MICROBIAL INTERACTIONS IN SOILS AND THE CONSEQUENCES FOR BIOLOGICAL AND BIOCHEMICAL ACTIVITY AND THE EFFICIENCY OF ROCK FLOUR AMENDMENTS	S07.03a MOLECULAR DYNAMICS OF SOIL ORGANIC MATTER: CHALLENGES, OPPORTUNITIES AND LIMITS	S11.04 ORGANIC MATTER DECOMPOSITION: DOES SOIL DIVERSITY MATTER?	S08.04a DYNAMIC NON-EQUILIBRIUM OF FLOW IN UNSATURATED PORUS MEDIA
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*					
BLOCK II 10.30-12.00	S05.03a BIOCHAR EFFECTS ON SOIL PROPERTIES, PROCESSES AND FUNCTIONS	S04.01a APPLICATION OF PROXIMAL SOIL SENSING (PPS) IN SOIL SCIENCE	S11.09b UNDERSTANDING MINERAL-ORGANIC-MICROBIAL INTERACTIONS IN SOILS AND THE CONSEQUENCES FOR BIOLOGICAL AND BIOCHEMICAL ACTIVITY AND THE EFFICIENCY OF ROCK FLOUR AMENDMENTS	S07.03b MOLECULAR DYNAMICS OF SOIL ORGANIC MATTER: CHALLENGES, OPPORTUNITIES AND LIMITS	S04.07 SYNCHROTRON RADIATION IN SOIL SCIENCE: APPLICATIONS AND METHOD DEVELOPMENT	S08.04b DYNAMIC NON-EQUILIBRIUM OF FLOW IN UNSATURATED PORUS MEDIA
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*					
BLOCK III 13.30-15.00	S05.03b BIOCHAR EFFECTS ON SOIL PROPERTIES, PROCESSES AND FUNCTIONS	S04.01b APPLICATION OF PROXIMAL SOIL SENSING (PPS) IN SOIL SCIENCE	S07.01a SOIL ORGANIC MATTER FROM BULK TO MOLECULAR SCALE: INNOVATIVE METHODS AND APPLICATIONS	S09.02 BIOGEOCHEMICAL INTERFACES IN SOIL: ARCHITECTURE, PROPERTIES AND FUNCTIONS	S02.01 INITIAL SOILS – FORMATION, PROPERTIES AND THE ROLE OF STRUCTURES	S01.02 WETLAND, FLOODPLAIN, RIPARIAN SOILS: PROPERTIES, PROCESSES AND ECOLOGICAL FUNCTIONS
15.00-15.30	*COFFEE BREAK - Bar Pavilion 9*					
BLOCK IV 15.30-17.00	S05.03c BIOCHAR EFFECTS ON SOIL PROPERTIES, PROCESSES AND FUNCTIONS	S04.01c APPLICATION OF PROXIMAL SOIL SENSING (PPS) IN SOIL SCIENCE	S07.01b SOIL ORGANIC MATTER FROM BULK TO MOLECULAR SCALE: INNOVATIVE METHODS AND APPLICATIONS	S09.01 SOIL MICROMORPHOLOGY: A JOURNEY FROM SOIL GENESIS TO NEW INTERDISCIPLINARY ADVANCEMENTS	S01.03 EVOLUTION AND PROPERTIES OF PADDY AND WETLAND SOILS	S05.02 IMPACTS OF SOIL AMENDMENTS ON TRANSFORMATION AND SORPTION OF BIOLOGICALLY ACTIVE SUBSTANCES IN SOIL

POSTER SESSIONS

	FIRST FLOOR - *Pavilion 10*			GROUND FLOOR - *Pavilion 9*		
17.00-18.30	S01.02-P WETLAND, FLOODPLAIN, RIPARIAN SOILS: PROPERTIES, PROCESSES AND ECOLOGICAL FUNCTIONS	S01.03-P EVOLUTION AND PROPERTIES OF PADDY AND WETLAND SOILS	S02.02-P EARLY ECOSYSTEM AND SOIL DEVELOPMENT	S02.01-P INITIAL SOILS – FORMATION, PROPERTIES AND THE ROLE OF STRUCTURES	S02.03-P PEDODIVERSITY IN SPACE AND TIME: CONCEPTS, MEASUREMENTS, APPLICATIONS	S04.01-P APPLICATION OF PROXIMAL SOIL SENSING (PPS) IN SOIL SCIENCE
	S04.07-P SYNCHROTRON RADIATION IN SOIL SCIENCE: APPLICATIONS AND METHOD DEVELOPMENT	S05.02-P IMPACTS OF SOIL AMENDMENTS ON TRANSFORMATION AND SORPTION OF BIOLOGICALLY ACTIVE SUBSTANCES IN SOIL	S07.01-P SOIL ORGANIC MATTER FROM BULK TO MOLECULAR SCALE: INNOVATIVE METHODS AND APPLICATIONS	S05.03-P BIOCHAR EFFECTS ON SOIL PROPERTIES, PROCESSES AND FUNCTIONS	S07.03-P MOLECULAR DYNAMICS OF SOIL ORGANIC MATTER: CHALLENGES, OPPORTUNITIES AND LIMITS	S08.04-P DYNAMIC NON-EQUILIBRIUM OF FLOW IN UNSATURATED PORUS MEDIA
	S09.02-P BIOGEOCHEMICAL INTERFACES IN SOIL: ARCHITECTURE, PROPERTIES AND FUNCTIONS			S09.01-P SOIL MICROMORPHOLOGY: A JOURNEY FROM SOIL GENESIS TO NEW INTERDISCIPLINARY ADVANCEMENTS	S11.09-P UNDERSTANDING MINERAL-ORGANIC-MICROBIAL INTERACTIONS IN SOILS AND THE CONSEQUENCES FOR BIOLOGICAL AND BIOCHEMICAL ACTIVITY AND THE EFFICIENCY OF ROCK FLOUR AMENDMENTS	

SPECIAL EVENTS - *Pavilion 10*

	ACERO	OLMO	LECCIO	BIANCOSPINO	ALLORO	MIRTO
18.30-20.00	BM06 *GENERAL ASSEMBLY OF THE EUROPEAN CONFEDERATION OF SOIL SCIENCE SOCIETIES (ECSSS)*	BM02 BUSINESS MEETING OF IUSS COMMISSION ON PALAEOPEDOLOGY	BM05 JOINT MEETING OF THE C-N CROSSCUTTING TEAM AND CROPLANDS RESEARCH GROUP OF THE GLOBAL RESEARCH ALLIANCE (GRA)	TD01 NEW TECHNIQUES FOR SOIL PARTICLE SIZE ANALYSIS: ADVANCEMENTS AND PROBLEMS	OD01 SOIL SCIENCE EDUCATION: HOW CAN WE MAKE SOILS SEXY AGAIN?	

FRIDAY 6 JULY 2012

ORAL SESSIONS - *Pavilion 10*

	ACERO	OLMO	LECCIO	BIANCOSPINO	ALLORO	MIRTO
BLOCK I 08.30-10.00	S04.02a REMOTE SENSING TECHNIQUES FOR SOIL CHARACTERIZATION AND MONITORING	S12.01 PEDOLOGICAL PROCESSES AND SOIL POLLUTION	S07.06a MECHANISMS OF C STABILIZATION AND SEQUESTRATION IN SOILS	S13.04 INTERNATIONAL CRITICAL ZONE OBSERVATORY RESEARCH FOCUSING ON SOIL	S04.03 SOIL MICRO-HETEROGENEITY: NOVEL MEASUREMENT TECHNIQUES, MODELLING AND MACROSCOPIC IMPACTS	S13.01a SOIL MEMORY: ARCHAEOLOGICAL AND NATURAL HERITAGE PRESERVED IN SOILS
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*					
BLOCK II 10.30-12.00	S04.02b REMOTE SENSING TECHNIQUES FOR SOIL CHARACTERIZATION AND MONITORING	S07.07a LONG-TERM EFFECTS OF AGRONOMIC PRACTICES ON SOIL ORGANIC MATTER AND CROP PRODUCTIVITY	S07.06b MECHANISMS OF C STABILIZATION AND SEQUESTRATION IN SOILS	S12.06a OPPORTUNITIES AND CHALLENGES IN MINE SITE REHABILITATION	S10.02 NEW TECHNOLOGIES TO DETERMINE THE SOIL INFLUENCE ON WINE GRAPE AND OTHER QUALITY CROPS	S13.01b SOIL MEMORY: ARCHAEOLOGICAL AND NATURAL HERITAGE PRESERVED IN SOILS
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*					
BLOCK III 13.30-15.00	S11.03a ECOSYSTEM SERVICES AND FUNCTIONS DRIVEN BY THE DIVERSITY OF SOIL BIOTA	S07.07b LONG-TERM EFFECTS OF AGRONOMIC PRACTICES ON SOIL ORGANIC MATTER AND CROP PRODUCTIVITY	S12.04a BIOREMEDIATION OF SOILS AND SEDIMENTS CONTAMINATED WITH ORGANIC CHEMICALS: ASSESSING AND OVERCOMING CHEMICAL AND MICROBIOLOGICAL CONSTRAINTS	S12.06b OPPORTUNITIES AND CHALLENGES IN MINE SITE REHABILITATION	S12.03 BIOGEOCHEMISTRY OF CONTAMINANTS IN WETLAND AND RIVER FLOODPLAIN SOILS	S13.03 SOIL POICY AND SOIL INFORMATION IN A CHANGING WORLD
15.00-15.30	*COFFEE BREAK - Bar Pavilion 9*					
BLOCK IV 15.30-17.00	S11.03b ECOSYSTEM SERVICES AND FUNCTIONS DRIVEN BY THE DIVERSITY OF SOIL BIOTA	S07.07c LONG-TERM EFFECTS OF AGRONOMIC PRACTICES ON SOIL ORGANIC MATTER AND CROP PRODUCTIVITY	S12.04b BIOREMEDIATION OF SOILS AND SEDIMENTS CONTAMINATED WITH ORGANIC CHEMICALS: ASSESSING AND OVERCOMING CHEMICAL AND MICROBIOLOGICAL CONSTRAINTS	S08.03 PEDOTRANSFER FUNCTIONS IN SOIL HYDROLOGY: STILL A MYTH, OR A PLEASANT REALITY? APPLICATIONS, VALIDATIONS, AND CASE STUDIES	S12.05 SPECIATION AND LOSSES OF PHOSPHORUS AND METALS FROM SOILS AN MITIGATION MEASURES	S13.05 TAILORED IMPROVEMENT OF BROWNFIELD REGENERATION IN EUROPE: A DISCUSSION OF STATE-OF-THE-ART APPROACHES, TECHNOLOGIES AND TOOLS, AND COMPARISON WITH INTERNATIONAL CONTEXT

POSTER SESSIONS

	FIRST FLOOR - *Pavilion 10*			GROUND FLOOR - *Pavilion 9*		
17.00-18.30	S04.02-P REMOTE SENSING TECHNIQUES FOR SOIL CHARACTERIZATION AND MONITORING	S08.03-P PEDOTRANSFER FUNCTIONS IN SOIL HYDROLOGY: STILL A MYTH, OR A PLEASANT REALITY? APPLICATIONS, VALIDATIONS, AND CASE STUDIES	S11.03-P ECOSYSTEM SERVICES AND FUNCTIONS DRIVEN BY THE DIVERSITY OF SOIL BIOTA	S04.03-P SOIL MICRO-HETEROGENEITY: NOVEL MEASUREMENT TECHNIQUES, MODELLING AND MACROSCOPIC IMPACTS	S07.06-P MECHANISMS OF C STABILIZATION AND SEQUESTRATION IN SOILS	S07.07-P LONG-TERM EFFECTS OF AGRONOMIC PRACTICES ON SOIL ORGANIC MATTER AND CROP PRODUCTIVITY
	S13.01-P SOIL MEMORY: ARCHAEOLOGICAL AND NATURAL HERITAGE PRESERVED IN SOILS	S13.03-P SOIL POICY AND SOIL INFORMATION IN A CHANGING WORLD	S13.04-P INTERNATIONAL CRITICAL ZONE OBSERVATORY RESEARCH FOCUSING ON SOIL	S10.02-P NEW TECHNOLOGIES TO DETERMINE THE SOIL INFLUENCE ON WINE GRAPE AND OTHER QUALITY CROPS	S12.01-P PEDOLOGICAL PROCESSES AND SOIL POLLUTION	S12.03-P BIOGEOCHEMISTRY OF CONTAMINANTS IN WETLAND AND RIVER FLOODPLAIN SOILS
				S12.05-P SPECIATION AND LOSSES OF PHOSPHORUS AND METALS FROM SOILS AN MITIGATION MEASURES	S12.06-P OPPORTUNITIES AND CHALLENGES IN MINE SITE REHABILITATION	
18.30-20.00	**CLOSING REMARKS**					

4th International Congress of the

EUROSOIL 2012

2 MONDAY JULY

Bari, BARION rowing-club. Archive photo FOTOGRAMMA - Bari

MONDAY 2 JULY 2012 - SPACE 7

08.30-10.00	**OPENING CEREMONY - WELCOMING ADDRESSES**
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*

PLENARY LECTURES

10.30-12.00	*Chair Persons:* Nicola Senesi, Bari - Italy Teodoro Miano, Bari - Italy
	PLENARY LECTURE 1 - *Sponsored by IHSS* **GRAND CHALLENGES IN SOIL AND ENVIRONMENTAL SUSTAINABILITY: THE IMPORTANCE OF BASIC BIOGEOCHEMICAL RESEARCH** *Donald L. Sparks* *Delaware Environmental Institute, University of Delaware, Newark - USA*
	PLENARY LECTURE 2 - *Sponsored by IHSS* **SOIL COMPACTION – HOW FAR ARE PHYSICAL, CHEMICAL AND BIOLOGICAL PROCESSES AND SOIL FUNCTIONS IRREVERSIBLY AFFECTED ON VARIOUS SCALES AND WHAT ARE THE CONSEQUENCES** *Rainer Horn* *Christian-Albrechts-University zu Kiel, Institute of Plant Nutrition and Soil Science, Kiel - Germany*
	PLENARY LECTURE 3 **DATA AND INFORMATION SYSTEMS FOR THE ASSESSMENT OF EUROPEAN SOIL RESOURCES** *Luca Montanarella* *European Commission JRC, ISPRA - Italy*
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*

MONDAY 2 JULY 2012 - ROOM ACERO - Pavilion 10

ORAL SESSIONS

BLOCK III 13.30-15.00	**S03.01a** **SOIL DEGRADATION** *Chair Persons:* Marcello Pagliai, Firenze - Italy Julia Krümmelbein, Brandenburg - Germany	BLOCK IV 15.30-17.00	**S03.01b** **SOIL DEGRADATION** *Chair Persons:* Julia Krümmelbein, Brandenburg - Germany Annika Badorreck, Münchenberg - Germany
	S03.01a -1 COMPACTION AND NATURAL RESILIENCE OF FOREST SOIL: TOWARDS BETTER UNDERSTANDING AND CHARACTERIZATION *Pascal Boivin, Jussy-Geneva - Switzerland - Invited*		S03.01b -1 SOIL RHEOLOGICAL PROPERTIES CHANGES UNDER ANTHROPOGENOUS LOADING *Dolgor Khaydapova, Moscow - Russian Federation - Invited*
	S03.01a -2 IMPACT OF MODERN FOREST VEHICLES ON SOIL PHYSICAL PROPERTIES AND THE POSSIBILITY FOR STRUCTURE REGENERATION *Rainer Horn, Kiel - Germany*		S03.01b -2 SOIL SUSCEPTIBILITY TO DEFORMATION: ASSESSMENT FROM WATER RETENTION CURVE CHARACTERISTICS AT LOW SUCTION *Levy Guy, Bet Dagan - Israel*
	S03.01a -3 RECOVERY OF FOREST SOIL STRUCTURE AND FINE ROOT PROPAGATION AFTER COMPACTION *Jürgen Schäffer, Freiburg - Germany*		S03.01b -3 CREEP MOVEMENT ON SLOPES - HOW STRUCTURE, HYDRAULICS AND MECHANICS INFLUENCE DEFORMATION PATTERNS *Hamoudy Ould Baba, Kiel - Germany*
	S03.01a -4 ASSESSING THE FOREST SOIL COMPACTION IN A LOAMY SOIL *Charlotte Rosière, Gembloux - Belgium*		S03.01b -4 STRUCTURAL STABILITY OF MARSHLAND SOILS OF THE RIPARIAN ZONE OF THE ELBE ESTUARY AND RIVER *Wibke Markgraf, Kiel - Germany*
	S03.01a -5 PERSISTENT EFFECTS OF SUBSOIL COMPACTION ON SOIL PORE STRUCTURE AND TRANSPORT PROCESSES *Thomas Keller, Zurich - Switzerland*		S03.01b -5 SOIL VULNERABILITY ASSESSMENT IN MOUNTAIN AREAS: THE VAL D'AOSTA EXAMPLE *Michele D'amico, Torino - Italy*
	S03.01a -6 EVOLUTION OF STRUCTURAL PROPERTIES OF AN ARABLE SOIL AFTER COMPACTION AND DIFFERENT REGENERATION PATHWAYS *Peter Weisskopf, Zürich - Switzerland*		
15.00-15.30	*COFFEE BREAK - Bar Pavilion 9*		
18.30-20.00	**WELCOME RECEPTION** - *Pavilion 9*		

MONDAY 2 JULY 2012 - ROOM OLMO - Pavilion 10

ORAL SESSIONS

BLOCK III 13.30-15.00	**S10.01a** **PLANT SOIL INTERACTIONS FROM THE RHIZOSPHERE TO THE FIELD SCALE** *Chair Person:* Mathieu Javaux, Louvain - Belgium	BLOCK IV 15.30-17.00	**S10.01b** **PLANT SOIL INTERACTIONS FROM THE RHIZOSPHERE TO THE FIELD SCALE** *Chair Person:* Walter Wenzel, Vienna - Austria
	S10.01a -1 20 YEARS OF RESEARCH ON BIOLOGICAL NITRIFICATION INHIBITION (BNI) PROCESSES FROM ROOTS TO LANDSCAPE IN WET SAVANNAS OF WEST AFRICA: IMPACT OF GRASS AND TREE SPECIES *Jean-Christophe Lata, Paris - France*		S10.01b -1 ROOT-INDUCED DECREASE IN METAL BINDING CAPACITY OF DISSOLVED ORGANIC MATTERS IN THE RHIZOSPHERE: EVIDENCES FROM TWO CONVERGENT STUDIES *Matthieu N. Bravin, Saint-Denis, La Réunion - France*
	S10.01a -2 IS ORGANIC NITROGEN UPTAKE A RELEVANT N SOURCE FOR PLANTS? *Daniel Moran-Zuloaga, Bayreuth - Germany*		S10.01b -2 COMPARISON OF DIFFERENT ROOT EXUDATE SAMPLING METHODS INCLUDING A NOVEL APPROACH USING RHIZOBOXES COMBINED WITH AN IN-SITU ROOT EXUDATE COLLECTING TOOL *Eva Oburger, Vienna - Austria*
	S10.01a -3 FORAGING IN NUTRIENT PATCHES: ARBUSCULAR MYCORRHIZAL FUNGI, THE PLANT'S EXTENDED ROOT SYSTEM *Edith Hammer, Lund - Sweden*		S10.01b -3 THE ROLE OF ROOT EXUDATES IN CHANGING SOIL MINERALOGY AND MOBILIZING TRACE ELEMENTS *Roberto Terzano, Bari - Italy*
	S10.01a -4 SOIL ARCHITECTURE CONTROLS THE PLANT AVAILABILITY OF P IN FOREST SOILS *Ivo Voß, Berlin - Germany*		S10.01b -4 INFLUENCE OF THREE ROOT SYSTEMS ON SUBSOIL AERATION *Daniel Uteau Puschmann, Kiel - Germany*
	S10.01a -5 DATA GATHERING FOR MODELING THE NUTRIENT ACQUISITION FROM THE SUBSOIL: CARBON AND NITROGEN CONTENTS OF THE DRILOSPHERE *Timo Kautz, Bonn - Germany*		S10.01b -5 DROUGHT AND WATER STRESS OF CROPS: A LOOK AT THE SOIL-ROOT SYSTEM INTERPLAY *Claude Doussan, Avignon - France*
15.00-15.30	*COFFEE BREAK - Bar Pavilion 9*		S10.01b -6 IMPACTS OF ROOT SPATIAL DISTRIBUTION ON PHYSICAL & HYDRAULIC PROPERTIES IN PEAT GROWING MEDIA USED IN HORTICULTURE *Patrice Cannavo, Angers - France*
18.30-20.00	**WELCOME RECEPTION** - *Pavilion 9*		

MONDAY 2 JULY 2012 - ROOM LECCIO - Pavilion 10

ORAL SESSIONS

BLOCK III 13.30-15.00	**W12.01a** **PESTICIDES IN SOIL, FATE AND EFFECTS ON ENVIRONMENT- In collaboration with GRIFA** *Chair Persons:* Sabino Bufo, Potenza - Italy Tomas Undabeytia, Sevilla - Spain	BLOCK IV 15.30-17.00	**W12.01b** **PESTICIDES IN SOIL, FATE AND EFFECTS ON ENVIRONMENT- In collaboration with GRIFA** *Chair Persons:* Tomas Undabeytia, Sevilla - Spain Sabino Bufo, Potenza - Italy
	W12.01a -1 ASSESSING THE EXPOSURE OF SOIL ORGANISMS TO PESTICIDES IN THE EUROPEAN UNION *Aaldrik Tiktak, Bilthoven - Netherlands*		W12.01b -1 NANO-PESTICIDES: STATE OF KNOWLEDGE, FATE AND EXPOSURE ASSESSMENT *Melanie Kah, Vienna - Austria*
	W12.01a -2 PESTICIDE INTERACTIONS IN SOILS, SEDIMENTS AND WATER *Rebecca Harrison, Bristol - United Kingdom*		W12.01b -2 ASSESSMENT AND MAPPING OF THE SEASONAL VARIABILITY OF PCBS CONTAMINATION IN ALPINE SOILS *Cristiano Ballabio, Milan - Italy*
	W12.01a -3 INTERACTIONS OF HERBICIDES WITH ORGANIC MATTER AND DISSIPATION PROCESSES *Peter Burauel, Juelich - Germany*		W12.01b -3 EFFECT OF TWO RAINFALL REGIMES ON THE DEGRADATION AND TRANSPORT OF S-METOLACHLOR IN SOIL COLUMNS COVERED WITH DECOMPOSING MULCH *Aslam Sohaib, Thiverval-Grignon - France*
	W12.01a -4 ROLE OF CLAY AND ORGANIC MATTER IN AN AGRICULTURAL SOIL ON THE FATE OF THE HERBICIDE SULCOTRIONE *Pascale Besse-Hoggan, Aubière Cedex - France*		W12.01b -4 IMPACT OF MAIZE HERBICIDE COCKTAILS ON SOIL MICROBIAL COMMUNITIES: A MICROCOSM APPROACH *Pierre Joly, Aubière - France*
	W12.01a -5 BIOMIX CAPACITY ON RETAINING PESTICIDES FROM CONTAMINATED WATER IN OXYGEN-LIMITED CONDITIONS *Nicoleta Alina Suciu, Piacenza - Italy*		W12.01b -5 SOIL PROCESSES AFFECTING THE PRESENCE OF OXYFLUORFEN IN SURFACE AND GROUNDWATERS OF SOUTH SPAIN *M. Alegria Cabrera, Sevilla - Spain*
	W12.01a -6 NEW VIEWS ON NON-EXTRACTABLE RESIDUE FORMATION FROM PESTICIDES IN SOIL *Karolina Nowak, Leipzig, - Germany*		W12.01b -6 EFFICIENCY OF ADVANCED MEMBRANE WASTEWATER TREATMENT TECHNOLOGY COUPLED WITH ACTIVATED CARBON AND CLAY MICELLES COMPLEXES TOWARDS REMOVAL OF NSAID DRUGS *Rafik Karaman, Jerusalem - Palestinian Territory*
15.00-15.30	*COFFEE BREAK - Bar Pavilion 9*		
18.30-20.00	**WELCOME RECEPTION** - *Pavilion 9*		

MONDAY 2 JULY 2012 - ROOM BIANCOSPINO - Pavilion 10

ORAL SESSIONS

BLOCK III 13.30-15.00	**S11.01a** **IMPACT OF CLIMATE CHANGE ON SOIL BIOCHEMICAL ACTIVITY WITH SPECIAL EMPHASIS ON SOIL RESPIRATION** *Chair Persons:* Jens Leifeld, Bern - Switzerland Carmen Trasar-Cepeda, Santiago de Compostela - Spain	BLOCK IV 15.30-17.00	**S11.01b** **IMPACT OF CLIMATE CHANGE ON SOIL BIOCHEMICAL ACTIVITY WITH SPECIAL EMPHASIS ON SOIL RESPIRATION** *Chair Persons:* Carmen Trasar-Cepeda, Santiago de Compostela - Spain Jens Leifeld, Bern - Switzerland
	S11.01a -1 TEMPERATURE SENSITIVITY OF SOIL ORGANIC MATTER DECOMPOSITION IN BOREAL SOILS *Pekka Vanhala, Helsinki - Finland*		S11.01b -1 TEMPERATURE EFFECTS ON BACTERIAL GROWTH IN SOIL AFTER NUTRIENT ADDITION, DRYING/REWETTING AND FREEZING/THAWING *Erland Baath, Lund - Sweden*
	S11.01a -2 TEMPERATURE SENSITIVITY OF STABLE SOIL CARBON – LESSONS LEARNED FROM LONG-TERM BARE FALLOW EXPERIMENTS *Romain Lefevre, Thiverval-Grignon - France*		S11.01b -2 TEMPERATURE SENSITIVITY OF ENZYMES ACTIVITY IN SOIL AS DEPENDENT ON SUBSTRATE AMOUNT AND DROUGHT EFFECT *Evgenia Blagodatskaya, Pushchino - Russian Federation*
	S11.01a -3 IN-SITU CARBON TURNOVER DYNAMICS AND THE ROLE OF THE SOIL MICROBIAL COMMUNITY THEREIN; A CLIMATE WARMING SIMULATION STUDY IN AN ALPINE ECOSYSTEM *Ika Djukic, Vienna - Austria*		S11.01b -3 SEASONAL VARIATIONS IN THE AVAILABILITY OF LABILE SUBSTRATE CONFOUND THE TEMPERATURE SENSITIVITY OF HETEROTROPHIC RESPIRATION *Miko Kirschbaum, Palmerston North - New Zealand*
	S11.01a -4 UNCERTAINTIES OF MODELING ECOSYSTEM RESPIRATION BASED ON SOIL TEMPERATURE – CAN THEY BE REDUCED USING MANUAL AND AUTOMATIC CHAMBER MEASUREMENTS? *Ulrike Hagemann, Müncheberg - Germany*		S11.01b -4 ANNUAL VARIATION IN CO2 EFFLUXES IN AFFORESTED AND AGRICULTURAL SOILS *Félix Zorita, Santiago de Compostela - Spain*
	S11.01a -5 IMPROVEMENT OF ENGINEERING PROPERTIES OF SOILS WITH BIOPOLYMER ADDITIVES *Yeliz Yukselen-Aksoy, Manisa - Turkey*		S11.01b -5 CARBON CONTROLS ON SOIL RESPIRATION ACROSS A TROPICAL ELEVATION GRADIENT: EVIDENCE FROM THE ANDES *Jeanette Whitaker, Lancaster - United Kingdom*
	S11.01a -6 DOES MICROBIAL RESPIRATION ADAPT TO CHANGES IN TEMPERATURE? *Kristiina Karhu, Exeter - United Kingdom*		S11.01b -6 INDICATION OF SOIL AMINO SUGARS TO WARMING EFFECT ON MICROBIAL TRANSFORMATION PROCESS OF SOM IN A TEMPERATE STEPPE *Xudong Zhang, Shenyang - China*
15.00-15.30	*COFFEE BREAK - Bar Pavilion 9*		
18.30-20.00	**WELCOME RECEPTION** - *Pavilion 9*		

MONDAY 2 JULY 2012 - ROOM ALLORO - Pavilion 10

ORAL SESSIONS

BLOCK III 13.30-15.00	**S07.05** **DYNAMICS OF SUBSOIL ORGANIC CARBON IN RELATION TO SOIL PROPERTIES, CLIMATE AND BIOTA** *Chair Persons:* Marcel Hoosbeek, Wageningen - Netherlands Maarten Braakhekke, Jena - Germany Myroslava Khomik, Jena - Germany	BLOCK IV 15.30-17.00	**S04.04** **LANDSCAPE-SCALE MODELLING OF SOIL PROCESSES IN AGROECOSYSTEMS** *Chair Persons:* Christian Walter, Rennes - France Björn Tetzlaff, Jülich, Germany
	S07.05 -1 THE FORGOTTEN PART OF CARBON CYCLING: ORGANIC MATTER STORAGE AND TURNOVER IN SUBSOILS *Bernd Marschner, Bochum - Germany*		S04.04 -1 LANDSCAPE MODELLING - BRIDGING STRUCTURE AND PROCESS *Michael Sommer, Münchenberg - Germany - Invited*
	S07.05 -2 SOIL ORGANIC MATTER CHEMISTRY OF SUBSOIL-C IN BROADLEAVED MARITIME TEMPERATE FOREST ECOSYSTEMS – A PYROLYSIS-GC/MS STUDY *Karen Vancampenhout, Leuven - Belgium*		S04.04 -2 SPATIO-TEMPORAL MODELING OF SOIL EROSION AND SOIL CARBON CONTENT AT THE LANDSCAPE SCALE IN THE CONTEXT OF GLOBAL CHANGE *Marine Lacoste, Rennes - France*
	S07.05 -3 THE EFFECT OF AGRICULTURAL LAND USE ON THE NATURE AND DYNAMICS OF SUBSOIL CARBON *Andrew Gregory, Harpenden, Hertfordshire - United Kingdom*		S04.04 -3 THE FUTURE OF ENVIRONMENTAL SUSTAINABILITY IN IRRIGATED AREAS: SOIL VARIABILITY AND CLIMATE CHANGE. A ITALIAN CASE STUDY AT LOCAL SCALE *Antonello Bonfante, Ercolano (NA) - Italy*
	S07.05 -4 CYCLING DOWNWARDS – DISSOLVED ORGANIC MATTER IN SOILS *Karsten Kalbitz, Amsterdam - Netherlands*		S04.04 -4 A COUPLED SOIL PROCESS AND FERTILISATION MODEL TO PREDICT NUTRIENT SOIL CONCENTRATIONS IN REGIONAL AGROECOSYSTEMS *Dominique Gärtner, Zürich - Switzerland*
	S07.05 -5 SOIL CARBON STABILIZATION IS DRIVEN BY THE RATIO OF C INPUT TO THE MASS OF MINERAL SOIL *Jens Leifeld, Zurich - Switzerland*		S04.04 -5 CARBOSOIL, A LAND EVALUATION MODEL FOR MAXIMIZING CARBON SEQUESTRATION IN MEDITERRANEAN SOILS *María Anaya-Romero, Seville - Spain*
	S07.05 -6 ARE DECOMPOSITION AND STABILISATION PROCESSES OF ORGANIC MATTER IN SUBSOILS RELATED TO REDUCED MICROBIAL BIOMASS AND ACTIVITY ? *Cornelia Rumpel, Thiverval-Grignon - France - Invited*		S04.04 -6 THE SOIL MAP PARADIGM: THE PRODUCTION OF VERIFIABLE DIGITAL LANDSCAPE PROJECTIONS VERSUS COMPLEX-CODED EXPERT VIEWS *Rainer Baritz, Hannover - Germany - Invited*
15.00-15.30	*COFFEE BREAK - Bar Pavilion 9*		S04.04 -7 A REGRESSION KRIGING APPROACH TO PREDICT SOIL SURFACE PROPERTIES IN A MEDITERRANEAN BASIN *Michael Blaschek, Kiel - Germany*
			S04.04 -8 DERIVATION OF POTENTIALLY DRAINED AREAS IN THE STATE OF SCHLESWIG-HOLSTEIN/GERMANY *Petra Kuhr, Jülich - Germany*
			S04.04 -8 ANALYSIS OF THE IMPACT OF EROSION ON AGRICULTURAL LANDSCAPE EVOLUTION: LANDSOIL MODEL DEVELOPMENT AND SENSITIVITY ANALYSIS *Rossano Ciampalini, Montpellier - France*
18.30-20.00	**WELCOME RECEPTION** - *Pavilion 9*		

MONDAY 2 JULY 2012 - ROOM MIRTO - Pavilion 10

ORAL SESSIONS

BLOCK III 13.30-15.00	**S06.02** **SUSTAINABLE AGROECOSYSTEMS IN CLIMATE CHANGE MITIGATION** *Chair Person:* Maren Oelbermann, Waterloo - Canada	BLOCK IV 15.30-17.00	**S11.08** **PHYSICO-CHEMICAL PROCESSES GOVERNING THE FATE AND TRANSPORT OF PATHOGENS AND BIOMACROMOLECULES IN SOILS** *Chair Persons:* Jacques Berthelin, Nancy - France Michael Sander, Zurich - Switzerland
	S06.02 -1 CHANGES IN AGROECOSYSTEM NUTRIENT STOCKS FOLLOWING AFFORESTATION OF DEGRADED IRRIGATED CROPLAND IN CENTRAL ASIA *Asia Khamzina, Bonn - Germany*		S11.08 -1 MATRIX EFFECTS CRITICAL TO MICROBIAL TRANSPORT IN ORGANIC WASTE-AFFECTED SOILS; IMPLICATIONS FROM MULTIPLE SCALES RESULTS *Adrian Unc, Las Cruces, New Mexico - United States*
	S06.02 -2 THE INFLUENCE OF ELEVATED AIR OZONE CONCENTRATION ON THE ENVIRONMENTAL BEHAVIOR AND ECOLOGICAL EFFECTS OF PYRENE IN SOIL *Hongyan Guo, Nanjing - China*		S11.08 -2 GRAIN SIZE AND WATER VELOCITY COMBINED AND SYNERGISTIC EFFECTS ON BIOCOLLOID TRANSPORT *Vasiliki Syngouna, Patras - Greece*
	S06.02 -3 EFFECT OF MULCH QUALITY AND SOIL TYPE ON C AND N BIOTRANSFORMATION AND TRANSPORT IN SOIL *Akhtar Iqbal, Reims - France*		S11.08 -3 FORCES DRIVING ADSORPTION OF TRANSGENIC INSECTICIDAL CRY PROTEINS TO ORGANIC MATTER *Michael Sander, Zurich - Switzerland*
	S06.02 -4 INTERACTION OF MITIGATION AND ADAPTATION STRATEGIES TO REDUCE GREENHOUSE GAS EMISSIONS FROM AGRICULTURE *Lorenzo Brilli, Firenze - Italy*		S11.08 -4 KINETICS OF INFECTIOUS PRION PROTEIN ATTACHMENT TO CHARGED MINERAL SURFACES *Kurt Jacobson, Madison - United States*
	S06.02 -5 FARMYARD MANURE APPLICATION MITIGATES GREENHOUSE GASES EMISSIONS FROM MANAGED GRASSLANDS IN JAPAN *Ryusuke Hatano, Sapporo - Japan*		S11.08 -5 DO INTERMOLECULAR INTERACTIONS AFFECT CATALYTIC ACTIVITY OF FUNGAL PHOSPHATASE IN SOLUTION AND WHEN ADSORBED ON MINERAL SURFACES *Siobhan Staunton, Montpellier - France*
	S06.02 -6 CARBON SEQUESTRATION AND GHG EMISSIONS ANALYSIS IN TROPICAL AREAS WITH USE OF NEW ANALYTICAL TOOLS *Ladislau Martin-Neto, Sao Carlos - Brazil*		S11.08 -6 ARTEMISININ IN SOIL AND ITS IMPACT ON MICROBIAL GROWTH *Bjarne W. Strobel, Copenhagen - Denmark*
15.00-15.30	*COFFEE BREAK - Bar Pavilion 9*		S11.08 -7 IMPACT OF PHYSICOCHEMICAL PROPERTIES AND MICROBIAL COMMUNITY STRUCTURE ON THE SURVIVAL OF E. COLI O157:H7 IN EASTERN CHINA SOILS *Jianming Xu, Hangzhou - China*
18.30-20.00	**WELCOME RECEPTION** - *Pavilion 9*		

MONDAY 2 JULY 2012 - FIRST FLOOR - Pavilion 10

POSTER SESSIONS

	S06.02-P **SUSTAINABLE AGROECOSYSTEMS IN CLIMATE CHANGE MITIGATION**
	S06.02-P -1 RESPONSE OF SPRING WHEAT YIELDS TO CLIMATE VARIABILITY AND CHANGE *Elena Pivovarova, Barnaul - Russian Federation*
	S06.02-P -2 13C OF RESPIRED CO2 FROM SOIL AND RESIDUE MIXTURES IN A COMPLEX AGROECOSYSTEM *Amanda Bichel, Waterloo - Canada*
	S06.02-P -3 DEVELOPMENT OF A SOIL HEALTH INDEX (SHI) BASED ON THE ECOLOGICAL SOIL FUNCTIONS FOR ORGANIC CARBON STABILIZATION. APPLICATION OF SHI TO DIFFERENT CROPPING SYSTEMS FOR VEGETABLES IN NORTHEAST ITALY *Andrea Ferrarini, Venice - Italy*
	S06.02-P -4 ECOLOGICAL RESOURCES IN AGRICULTURAL FARMS: A CASE STUDY OF AGROECOSYSTEMS IN ALBANIA *Hysen Mankolli, Tirana - Albania*
	S06.02-P -5 FACTORS INFLUENCING THE NUTRIENT SIGNATURE OF POTATO CULTIVARS *Serge-Étienne Parent, Québec - Canada*
	S06.02-P -6 GIS DATA BASE AND METHODOLOGY FOR ESTIMATING IMPACTS OF CLIMATE CHANGE ON SOIL TEMPERATURE AND RELATED RISKS FOR AUSTRIAN AGRICULTURE *Erwin Murer, Petzenkirchen - Austria*
	S06.02-P -7 INFLUENCE OF INCREASES SOIL TEMPERATURE ON COMMUNITY STRUCTURE OF FUSARIUM SP. AND THE CORRESPONDING ANTAGONISTS *Jean Charles Munch, Neuherberg - Germany*
	S06.02-P -8 METHANE EFFLUX IN FLOODED SOIL IS AFFECTED BY RICE CULTIVARS *Leandro Souza Da Silva, Santa Maria - Brazil*
	S06.02-P -9 ORGANIC CARBON ACCUMULATION IN VERTISOLS OF LOMBARDY (NORTHERN ITALY) MANAGED UNDER CONSERVATION AGRICULTURE PRACTICES *Stefano Brenna, Milan - Italy*
	S06.02-P -10 SOIL BULK DENSITY EVALUATED BY X-RAY MICROTOMOGRAPHY FOR CARBON STOCKS QUANTIFICATION *Aline Segnini, São Carlos - Brazil*
	S06.02-P -11 SOIL NITROGEN TRANSFORMATIONS IN COMPLEX AGROECOSYSTEMS *Meaghan Wilton, Waterloo - Canada*
17.00-18.30	S06.02-P -12 SOIL RESPIRATION AND QUALITY IN A REHABILITATED RIPARIAN ZONE *Maren Oelbermann, Waterloo - Canada*
	S06.02-P -13 USING ECO-CLIMATIC DIAGRAMS TO CREATE A MODEL FOR FORECASTING *Suleyman Sahin Ince, Bari - Italy*
	S07.05-P **DYNAMICS OF SUBSOIL ORGANIC CARBON IN RELATION TO SOIL PROPERTIES, CLIMATE AND BIOTA**
	S07.05-P -1 ASSESSMENT OF THE SPATIAL DISTRIBUTION OF SOIL ORGANIC CARBON AND RELATED FACTORS IN THE REGIONAL PARK OF PORTOFINO (LIGURIA-ITALY) *Ivano Rellini, Genova - Italy*
	S07.05-P -2 CARBON POOLS AND TEMPORAL DYNAMICS ALONG A ROTATION PERIOD IN QUERCUS DOMINATED HIGH FOREST AND COPPICE WITH STANDARDS STANDS *Viktor J. Bruckman, Vienna - Austria*
	S07.05-P -3 CHANGES IN UPPER SUBSOIL PROPERTIES AFTER 50 YEARS OF N FERTILIZATION IN THE SWEDISH LONG-TERM SOIL FERTILITY EXPERIMENTS *Thomas Kätterer, Uppsala - Sweden*
	S07.05-P -4 COMPONENTS OF FOREST SOIL CO2 EFFLUX AS ESTIMATED FROM 14C VALUES OF SOIL ORGANIC MATTER *Mirco Rodeghiero, San Michele All'Adige - Italy*
	S07.05-P -5 DEPTH DEPENDENCY, RETENTION AND STABILISATION OF ORGANIC CARBON IN A SANDY TENOSOL *Eleanor Hobley, Newcastle - Australia*
	S07.05-P -6 DOCUMENTING AND MODELING THE ACCRETION OF SURFACE AND SUBSOIL ORGANIC CARBON IN AGRICULTURAL INCEPTISOLS RECLAIMED FROM MEDITERRANEAN SEA MARSHES IN SARDINIA *Armen R. Kemanian, University Park (PA) - United States*
	S07.05-P -7 EFFECTS OF LAND-USE, WOOD HARVEST INTENSITY, AND RECENT CLIMATE CHANGE ON SOIL ORGANIC MATTER STOCKS IN DIFFERENT SOILS OF THE BAVARIAN ALPS *Christophel Dominik, Freising-Weihenstephan - Germany*
	S07.05-P -8 EVOLUTION OF SOIL ORGANIC MATTER WITH DEPTH UNDER DIFFERENT FORESTRY AND AGRICULTURE MANAGEMENTS MONITORED BY CALORIMETRY AND THERMAL ANALYSIS *Josefa Salgado, Santiago de Compostela - Spain*
	S07.05-P -9 IMPACT OF FOREST REGENERATION METHOD ON ACCUMULATION OF CARBON IN LITTER IN SCOTS PINE (PINUS SYLVESTRIS L.) STAND *Andis Lazdiņš, Salaspils - Latvia*

MONDAY 2 JULY 2012 - FIRST FLOOR - Pavilion 10

POSTER SESSIONS

17.00-18.30	S07.05-P -10 INCORPORATION OF ROOT AND RHIZOMICROBIAL ORGANIC MATTER IN SUBSOIL – ASSESSED BY N-ALKANE MOLECULAR PROXIES *Martina Gocke, Bayreuth - Germany*
	S07.05-P -11 MEASURING BELOW-GROUND CARBON INPUTS USING THE 13C NATURAL ABUNDANCE METHOD: COMPARISONS BETWEEN DIFFERENT LAND USE TYPES *Cristina Martinez, Firenze - Italy*
	S07.05-P -12 ROLE OF CLIMATIC SINGLE EVENTS AND PEDOHYDRAULIC FACTORS IN THE MOBILIZATION AND THE TRANSPORT OF MOBILE ORGANIC PARTICULATE SUBSTANCES IN AN ARABLE SOIL *Andreas Schmalwasser, Jena - Germany*
	S07.05-P -13 SOIL ORGANIC MATTER ACCUMULATION, FRACTIONATION AND ASSOCIATED MICROBIOCOMUNITY IN TWO CHRONOSEQUENCES ON POSTMINING SITES *Martin Bartuška, Prague - Czech Republic*
	S07.05-P -14 SOILS WITH HIGH ORGANIC CARBON STORAGE CAPACITY IN DEPTH *Romina Lorenzetti, Firenze - Italy*
	S07.05-P -15 SPATIAL VARIATION OF SUBSOIL ORGANIC CARBON CONCENTRATION AND THERMAL FRACTIONS UNDER AGRICULTURAL LANDSCAPES OF CENTRAL ENGLAND *Barry Rawlins, Nottingham - United Kingdom*
	S11.01-P **IMPACT OF CLIMATE CHANGE ON SOIL BIOCHEMICAL ACTIVITY WITH SPECIAL EMPHASIS ON SOIL RESPIRATION**
	S11.01-P -1 BIOLOGICAL ESTIMATION OF SOILS OF SUBTROPICAL ZONES OF AZERBAIJAN *Naila Orujova, Baku - Azerbaijan*
	S11.01-P -2 A KINETIC APPROACH TO IDENTIFY CARBON MINERALIZATION IN AMINO ACID-TREATED SOILS *Farshid Nourbakhsh, Isfahan - Iran, Islamic Republic of*
	S11.01-P -3 A NOVEL MICROWAVE-ASSISTED TECHNIQUE TO ESTIMATE SOIL MICROBIAL BIOMASS NITROGEN *Farshid Nourbakhsh, Isfahan - Iran, Islamic Republic of*
	S11.01-P -4 ABUNDANCE AND SPECIES COMPOSITION OF EARTHWORMS UNDER DIFFERENT SOIL USE *Anita Gal, Godollo - Hungary*
	S11.01-P -5 AMINO ACID CONCENTRATION CONTROLS N MINERALIZATION IN CALCAREOUS SOILS *Farshid Nourbakhsh, Isfahan - Iran, Islamic Republic of*
	S11.01-P -6 BIOLOGICAL CHARACTERISATION OF HUMUS PROFILES ALONG A CLIMOSEQUENCE OF SUBALPINE FOREST SOILS *Graefe Ulfert, Hamburg - Germany*
	S11.01-P -7 EFFECT OF LOW TEMPERATURE AND SOIL TYPE ON DECOMPOSITION OF SOIL ORGANIC MATTER AND PLANT RESIDUE *Marina Azzaroli Bleken, Aas - Norway*
	S11.01-P -8 EFFECTS OF CHANGING CLIMATE PARAMETERS ON PHENOL OXIDASE ACTIVITY IN A MEDITERRANEAN SHRUBLAND SOIL *Ana Maymó, Moncada - Spain*
	S11.01-P -9 HEAT WAVES AND SOIL MEDITERRANEAN MICROBIAL COMMUNITIES: DIFFERENTIAL INFLUENCE OF DROUGHT, HIGH-TEMPERATURE AND PERTURBATION DURATION *Berard Annette , Avignon - France*
	S11.01-P -10 IMPACT OF WINTER CLIMATE CHANGE AND SOIL PROPERTIES ON SOIL MICROORGANISMS AND DECOMPOSITION OF PLANT RESIDUES *Stefan Lukas, Witzenhausen - Germany*
	S11.01-P -11 INFLUENCE OF LONG-TERM N-FERTILIZATION AND TEMPERATURE ON THE ACTIVITY AND COMPOSITION OF THE N2 AND N2O FORMING BACTERIAL COMMUNITY IN FEN PEAT SOIL *Jürgen Augustin, Müncheberg - Germany*
	S11.01-P -12 INTRA-ANNUAL VARIATION IN THE N MINERALIZATION CAPACITY OF AFFORESTED SOILS *Carmen Trasar-Cepeda, Santiago de Compostela - Spain*
	S11.01-P -13 IS MINERAL-BOUND SOIL ORGANIC MATTER SENSITIVE TO TEMPERATURE CHANGES? *Jocelyn Lavallee, Fort Collins - United States*
	S11.01-P -14 ISOLATION, CLONING AND CHARACTERISATION OF A NOVEL PHYTASE GENE FROM PSEUDOMONAS PUTIDA STRAIN P13 *Mohammad Reza Sarikhani, Tabriz - Iran, Islamic Republic of*
	S11.01-P -15 SEASONAL VARIATION IN THE ACTIVITIES OF HYDROLASE ENZYMES ASSOCIATED WITH P AND S CYCLES IN AFFORESTED AND AGRICULTURAL SOILS *Félix Zorita, Santiago de Compostela - Spain*
	S11.01-P -16 TEMPERATURE SENSITIVITY OF N2O AND CO2 EMISSION FROM SOIL AS DEPENDENT ON OXYGEN AVAILABILITY AND SUBSTRATE AMOUNT *Evgeniya Blagodatskaya, Pushchino - Russian Federation*
	S11.01-P -17 TEMPERATURE-DRIVEN GROWTH RESPONSE OF THE FUNGAL AND BACTERIAL COMMUNITY IN SOIL *Stephanie Reischke, Lund - Sweden*

MONDAY 2 JULY 2012 - FIRST FLOOR - Pavilion 10

POSTER SESSIONS

	S11.01-P -18 TEMPERATURE-SENSITIVITY OF SUBSOIL CARBON TURNOVER IN AGRICULTURAL SOIL *Ngonidzashe Chirinda, Tjele - Denmark*
	S11.01-P -19 TEMPORAL CHANGES IN DISSOLVED ORGANIC CARBON AND EXTRACELLULAR PHENOL OXIDASE ACTIVITY IN CONVENTIONAL AND NO-TILL PADDY SOIL UNDER DIFFERENT INCUBATION TEMPERATURE CONDITIONS *Ro Hee-myong , Seoul - Korea, Republic of*
	S11.01-P -20 THE EFFECT OF CLIMATE WARMING ON ABOVEGROUND AND BELOWGROUND INTERACTIONS IN PEATLANDS: THE SEASONAL NUTRIENT PARTITIONING BETWEEN MICROBES AND PLANTS *Luca Bragazza, Ferrara - Italy*
	S12.04-P **BIOREMEDIATION OF SOILS AND SEDIMENTS CONTAMINATED WITH ORGANIC CHEMICALS: ASSESSING AND OVERCOMING CHEMICAL AND MICROBIOLOGICAL CONSTRAINTS**
	S12.04-P -1 A COMBINED PHYSICAL AND MICROBIOLOGICAL REMEDIATION CONCEPT FOR VCHC CONTAMINATIONS *Wibke Markgraf, Kiel - Germany*
	S12.04-P -2 A REAL-SCALE SOIL PHYTOREMEDIATION *Cristina Macci, Pisa - Italy*
	S12.04-P -3 BIODECONTAMINATION OF SEDIMENTS FROM THE ENDOCRINE DISRUPTORS BISPHENOL A AND 4-NONYLPHENOL BY LIGNINOLYTIC FUNGI *Andreina Traversa, Bari - Italy*
	S12.04-P -4 EFFECT OF A NON-IONIC SURFACTANT (TWEEN 80) ON THE DESORPTION AND BIOAVAILABILITY OF POLYCYCLIC AROMATIC HYDROCARBONS FROM TWO SOILS FROM A TAR OIL-CONTAMINATED FIELD SITE *Katja Heister, Freising-Weihenstephan - Germany*
	S12.04-P -5 EFFECT OF REVEGETATION WITH NATIVE PLANTS ON SOILS AND SLUDGES POLLUTED BY HEAVY METALS AND POLYCYCLIC AROMATIC HYDROCARBONS *Paola Adamo, Portici (NA) - Italy*
	S12.04-P -6 EFFECTS OF CLAY MINERAL COMPOSITION ON THE WATER AND ORGANIC VAPOUR ADSORPTION OF SOILS *Hilda Hernádi, Keszthely - Hungary*
	S12.04-P -7 EFFECTS OF COMPOST ADDITION ON PYRENE REMOVAL FROM SOIL VEGETATED WITH THREE SELECTED PLANT SPECIES *Alaà Ghanem, Bari - Italy*
	S12.04-P -8 FLUORESCENCE QUENCHING METHOD FOR DETERMINING PYRENE PARTITION COEFFICIENT TO DISSOLVED ORGANIC MATTER FROM COMPOST *Valeria D'Orazio, Bari - Italy*
17.00-18.30	S12.04-P -9 HEALTH RISK ANALYSIS AT THE 7TH ZONE OF THE ENVIRONMENTAL LIABILITY, "EX REFINERIA 18 DE MARZO" IN MEXICO CITY *Luis Antonio García-Villanueva, - Mexico*
	S12.04-P -10 HYDROCARBONS IN WATER AND SEDIMENTS IN THE PERTUSILLO LAKE, VAL D'AGRI, ITALY *Albina Colella, Potenza - Italy*
	S12.04-P -11 ICE GLACIERS AS RESERVOIRS OF XENOBIOTIC DEGRADING STRAINS WITH POTENTIAL APPLICATION IN SOIL BIOREMEDIATION *Fabrizio Cappa, Piacenza - Italy*
	S12.04-P -12 LIQUID PERMEABILITY OF SOIL IN AQUEOUS AND NON-AQUEOUS SYSTEMS TREATED WITH A CATIONIC SURFACTANT *Gyöngyi Barna, Keszthely - Hungary*
	S12.04-P -13 MEASURING OF ARYLESTERASE ACTIVITY IN SOILS, AN ENZYME ACTIVITY INVOLVED IN THE DEGRADATION OF ORGANOPHOSPHORUS PESTICIDES *Giancarlo Renella, Florence - Italy*
	S12.04-P -14 MYCELIAL NETWORKS ENHANCE PAH-BIOAVAILABILITY IN WATER UNSATURATED ENVIRONMENTS *Susan Foss, Leipzig - Germany*
	S12.04-P -15 PESTICIDE INTERFERENCES ON THE MICROBIAL COMMUNITY OF AN ORGANIC BIOFILTER USED IN BIODEPURATION OF CONTAMINATED WATER *Elga Monaci, Ancona - Italy*
	S12.04-P -16 PHENANTHRENE ADSORPTION ONTO HYDROPHOBIC MEMBRANES PROMOTES ITS MINERALIZATION BY SOIL BACTERIA AND LEADS TO THE IDENTIFICATION OF NEW PAH-DEGRADERS *Kom Regonne Raïssa, Ngaoundere - Cameroon*
	S12.04-P -17 PHRAGMITES AUSTRALIS (CAV.) TRIN. IN PHYTOREMEDIATION OF HEAVY METAL CONTAMINATED WATER AND SEDIMENTS IN THE SARNO RIVER, ITALY *Stefania Papa, Caserta - Italy*
	S12.04-P -18 PHYTOREMEDIATION OF XENOBIOTICS: AN IN SILICO APPROCH TO STUDY THE GLUTATHIONE S-TRANSFERASE SUPERFAMILY IN SELECTED PLANTS *Angela Roberta Lo Piero, Catania - Italy*
	S12.04-P -19 POTENTIAL OF RYGRASS TO REMOVE ENDOCRINE DISRUPTOR COMPOUNDS FROM AQUEOUS SYSTEMS *Bruno Barboza Cunha, Araraquara - Brazil*
	S12.04-P -20 PYOVERDINE INTERACTIONS WITH TRACE ELEMENTS IN SEDIMENT: WHICH PROSPECTS FOR SIDEROPHORE-ASSISTED PHYTOREMEDIATION? *Jean-Yves Cornu, Bordeaux - France*
	S12.04-P -21 SOIL IMPROVEMENT BY APPLICATION OF CLINOPTILOLITE IN AN OLIVE OIL MILL WASTE DISPOSAL AREA *Sid Theocharopoulos, Athens - Greece*

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POSTER SESSIONS

17.00-18.30	S12.04-P -22 SOIL INOCULATION WITH SPECIFIC MICROBIAL COMMUNITIES ATTACHED ON CARRIER MATERIAL - CAN THIS BECOME A USEFUL TOOL IN SOIL REMEDIATION? *Jean Charles Munch, Neuherberg - Germany*
	S12.04-P -23 SOIL MICROSTRUCTURE AND ADDED ORGANIC MATTER: KEYS FOR CHLORDECONE SEQUESTRATION *Paula Fernandes, Lamentin - Martinique*
	S12.04-P -24 SOILS CONTAMINATED WITH PAH:A LONG TERM NATURAL ATTENUATION ASSESSMENT *Stephanie Ouvrard, Vandoeuvre-les-Nancy - France*
	S12.04-P -25 TECHNOSOLS TO RECLAIM INDUSTRIAL WASTELANDS: DEPTH DISTRIBUTION OF ABUNDANCE AND ACTIVITY OF N-CYCLING MICROBIAL COMMUNITIES. *Farhan Hafeez, Dijon - France*
	S12.04-P -26 THE QUANTITY OF MICROORGANISMS IN OIL POLLUTION OF THE GRAY-BROWN SOIL OF AZERBAIJAN *Ali Ibrahimov, Baku - Azerbaijan*
	S12.04-P -27 TOLERANCE STRATEGIES AGAINST SOME HEAVY METALS IN FOUR ORNAMENTAL PLANT SPECIES GROWING ON ZINC-MINE TAILING SOIL *Mehran Jandaghi, Tehran - Iran, Islamic Republic of*
	S12.04-P -28 TROPICAL PEAT SAMPLES: AN ALTERNATIVE SORBENT OF ENDOCRINE DISRUPTOR COMPOUNDS *Bruno Barboza Cunha, Sorocaba - Brazil*
	S12.04-P -29 USE OF A MICROBIAL CONSORTIUM FROM A CONTAMINATED SITE ON THE DEGRADATION OF FUEL OIL *Meenu Tyagi, Lisbon - Portugal*
	S12.04-P -30 VIABILITY OF BACTERIA IMMOBILIZED ONTO CERAMIC BEADS IN SOIL CONTAMINATED BY NITROAROMATICS *Katrina Potapova, Riga - Latvia*
	W12.01-P **PESTICIDES IN SOIL, FATE AND EFFECTS ON ENVIRONMENT - In collaboration with GRIFA**
	W12.01-P -1 ADSORPTION OF METALAXYL IN WASTE ORGANIC SUBSTRATES AND SOILS AND EFFECT OF DIFFERENT ORGANIC CARBON QUALITY *Elga Monaci, Ancona - Italy*
	W12.01-P -2 ANALYSIS OF FLUAZINAM AND ITS DEGRADATION IN SOIL *Kati Hakala, Helsinki - Finland*
	W12.01-P -3 ASSESSING BIOLOGICAL ACTIVITY OF SOIL ORGANISMS IN NO-TILL SOILS UNDER DIFFERENT AGRICULTURAL PRACTICES USING THE BAIT LAMINA METHOD *Sophie Campiche, Lausanne - Switzerland*
	W12.01-P -4 ATRAZINE CONTROLLED RELEASE FORMULATION APPLIED ON MAIZE CROP UNDER NO-TILLAGE *Daniela Barbosa, Porto Alegre - Brazil*
	W12.01-P -5 BROMOXYNIL OCTANOATE A HERBICIDE WIDELY USED AFTER ATRAZINE BANNING: MICROBIAL DEGRADATION IN DIFFERENT SOIL TYPES *Ángeles Prieto-Fernández, Santiago de Compostela - Spain*
	W12.01-P -6 COMPARISON OF FOUR EXTRACTION METHODS FOR THE MULTIRESIDUE DETERMINATION OF PESTICIDES IN SOIL BY GAS CHROMATOGRAPHY-MASS SPECTROMETRY DETECTION *Vojislava Bursic, Novi Sad - Serbia*
	W12.01-P -7 COPPER INPUTS INTO SOIL BY RAINDROP IMPACT ON POTATO LEAVES SPRAYED WITH COPPER-BASED FUNGICIDES *Marcos Paradelo, Ourense - Spain*
	W12.01-P -8 DEGRADATION OF S-METOLACHLOR AND METRIBUZIN IN TWO INTENSIVE-CROP SOILS AMENDED WITH TWO-PHASE OLIVE MILL WASTE *Javier Sánchez Llerena, Badajoz - Spain*
	W12.01-P -9 DETERMINATION OF ORGANOCHLORINE PESTICIDES IN SOIL USING GAS CHROMATOGRAPHY–TANDEM MASS SPECTROMETRY *Vojislava Bursic, Novi Sad - Serbia*
	W12.01-P -10 DOES COMPOST ADDITION AFFECT THE MINERALISATION OF 14C-PESTICIDES NON-EXTRACTABLE RESIDUES IN SOIL ? *Thomas Lerch, Paris - France*
	W12.01-P -11 EFFECT OF DE-OILED TWO-PHASE OLIVE MILL WASTE ON THE LEACHING OF MCPA AND METRIBUZIN IN A LUVISOL *David Peña Abades, Badajoz - Spain*
	W12.01-P -12 EFFECTS OF PIG SLURRY CO-APPLIED SULFADIAZINE (SDZ) ON THE STRUCTURAL AND FUNCTIONAL DIVERSITY OF MICROORGANISMS IN EARTHWORM CHANNELS AND SOIL AGGREGATES *Rüdiger Reichel, Trier - Germany*
	W12.01-P -13 EROSION AFFECTED DISPERSION OF GLYPHOSATE IN SOIL ENVIRONMENT *Gorana Todorovic, Vienna - Austria*
	W12.01-P -14 FATE AND IMPACT OF PESTICIDES: A MULTI-SCALE AND INTERDISCIPLINARY STUDY FOR A RATIONAL USE *Pascale Besse-Hoggan, Aubière Cedex - France*

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POSTER SESSIONS

	W12.01-P -15 FATE OF THE HERBICIDE MECOPROP IN MEDITERRANEAN SOILS AMENDED WITH FRESH AND COMPOSTED OLIVE-MILL WASTE *Beatriz Gamiz, Sevilla - Spain*
	W12.01-P -16 FATE OF THE HERBICIDE MESOTRIONE IN THE ENVIRONMENT: COUPLING OF CHEMICAL AND BIOLOGICAL (2D-DIGE) APPROACHES TO IDENTIFY ITS DEGRADATION PATHWAY BY A BACILLUS SP. STRAIN ISOLATED FROM AN AGROSYSTEM *Joly Pierre, Aubière - France*
	W12.01-P -17 IMPACT OF DE-OILED OLIVE MILL WASTE AMENDMENT ON THE SORPTION, LEACHING, AND DEGRADATION OF S-METOLACHLOR IN A CALCAREOUS CLAY SOIL *Ángel Abarrán Liso, Badajoz - Spain*
	W12.01-P -18 IMPACT OF MCPA IN NITROGEN MINERALIZATION AND UREASE ACTIVITY IN ANDISOL SOIL *Evelyn Padilla, Temuco - Chile*
	W12.01-P -19 LONG TERM MONITORING OF ATRAZINE CONCENTRATIONS IN A SHALLOW AQUIFER *David Vonberg, Julich - Germany*
	W12.01-P -20 MODULATION OF ATRAZINE BIODEGRADATION BY PSEUDOMONAS SP. STRAIN ADP ADSORPTION ON ANIONIC CLAYS AND ANIONIC CLAY / HUMIC ACID COMPLEXES *Pascale Besse-Hoggan, Aubière Cedex - France*
	W12.01-P -21 PERCOLATION LOSSES OF PESTICIDE APPLIED AS CONTROLLED RELEASE FORMULATIONS IN STRUCTURED SOIL CORES *Marcos Paradelo, Ourense - Spain*
	W12.01-P -22 PH EFFECT ON THE ADSORPTION OF NEUTRAL PESTICIDES BY SOILS *Dora Gondar, Santiago de Compostela - Spain*
	W12.01-P -23 REMOVAL OF CR(VI) FROM INDUSTRIAL WASTEWATER USING CLAY-MICELLE COMPLEX *Mohannad Qurie, Potenza - Italy*
	W12.01-P -24 ROLE OF SOIL COLLOIDS IN THE TRANSFER OF GLYPHOSATE AND AMPA FROM A SMALL VINEYARD SUBCATCHMENT TO SURFACE WATER OF WESTERN SWITZERLAND *Silwan Daouk, Lausanne - Switzerland*
	W12.01-P -25 SEDIMENT-ASSOCIATED PESTICIDES IN A SUBTROPICAL RIVER IN NORTHERN THAILAND *Thilo Streck, Stuttgart - Germany*
	W12.01-P -26 SLOW RELEASE FORMULATIONS OF DIURON BASED ON CLAY-PHOSPHATIDYLCHOLINE COMPLEXES *Tomas Undabeytia, Seville - Spain*
	W12.01-P -27 SOLUBILIZATION OF HERBICIDES BY SINGLE AND MIXED COMMERCIAL SURFACTANTS *Tomas Undabeytia, Seville - Spain*
17.00-18.30	W12.01-P -28 STUDY OF THE SORPTION OF TWO SULFONYLUREA TYPE HERBICIDES, THEIR FORMULATION AS WELL AS ONE ADDITIVE ON SOILS AND SOIL COMPONENTS *Rita Földényi, Veszprém - Hungary*
	W12.01-P -29 USING THE DIGITAL SOIL MAP OF WALLONIA (SOUTHERN BELGIUM) AND AN EXISTING DATABASE OF SOIL ANALYSIS TO ASSESS THE RISKS OF PESTICIDE LEACHING TO GROUNDWATER *Boubacar Billo Bah, Gembloux - Belgium*
	W12.01-P -30 TRANSPORT OF HEAVY METALS IN SOILS TREATED WITH MUNICIPAL SLUDGE *Elham Asgharzadeh, Hamedan - Iran, Islamic Republic of*
	S13.05-P **TAILORED IMPROVEMENT OF BROWNFIELD REGENERATION IN EUROPE: A DISCUSSION OF STATE-OF-THE-ART APPROACHES, TECHNOLOGIES AND TOOLS, AND COMPARISON WITH INTERNATIONAL CONTEXT**
	S13.05-P -1 APPRAISAL OF MARKET UNCERTAINTIES FOR CONTAMINATED SITES *Stephan Bartke, Leipzig - Germany*
	S13.05-P -2 COMPARATIVE APPLICATION OF RISK-BASED DSSS FOR BROWNFIELD REHABILITATION: DESYRE AND SADA APPLICATION TO A ROMANIAN CASE STUDY *Ileana-Codruta Stezar, Cluj-Napoca - Romania*
	S13.05-P -3 DESIGN AND COMPARATIVE EVALUATION OF SUSTAINABLE LAND USE ALTERNATIVES FOR BROWNFIELD REDEVELOPMENT *Sebastian Schaedler, Tuebingen - Germany*
	S13.05-P -4 REMOVAL OF MIXED CONTAMINANTS FROM SOIL WITH REUSED FOAMS FOR IN-SITU REMEDIATION *Ahmed Mohamed Mahmoud, Besancon - France*
	S13.05-P -5 RISK-BASED CORRECTIVE ACTION FOR CONTAMINATED SOILS IN AN ABANDONED SITE OF CHLORIDE PRODUCTIONS IN SOUTHWEST CHINA *Guanlin Guo, Beijing - China*
	S13.05-P -6 TASK – THE CENTRE OF COMPETENCE FOR SOIL, GROUNDWATER AND SITE REVITALISATION *Stephan Bartke, Leipzig - Germany*
	S13.05-P -7 TIMBRE - INTRODUCING TAILORED IMPROVEMENT FOR BROWNFIELD REGENERATION *Stephan Bartke, Leipzig - Germany*
	S13.05-P -8 UPTAKE AND FATE OF ORGANIC CONTAMINANTS IN PLANTS OF CONSTRUCTED WETLANDS *Arno Rein , Kgs. Lyngby - Denmark*
	S13.05-P -9 WASHING PROCEDURE TO MOBILIZE AND EXTRACT CONTAMINANTS FROM SOILS *Ahmed Mohamed Mahmoud, Besancon - France*

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POSTER SESSIONS

	S03.01-P **SOIL DEGRADATION**
	S03.01-P -1 ADSORPTIVE COMPLEX OF SALINE SOILS IN VOJVODINA, SERBIA *Jovica Vasin, Novi Sad - Serbia*
	S03.01-P -2 BANK STABILITY ON THE RIVER ELBE TOWARDS SHIP GENERATED WAVES *Thomas Neugebauer, Kiel - Germany*
	S03.01-P -3 CARBONIFEROUS CLAYSTONES TRANSFORMATIONS DURING WEATHERING AND THEIR INFLUENCE ON APPLICATION OF THE ROCKS AS A LANDFILL COVER *Anna Pytlak, Lublin - Poland*
	S03.01-P -4 COMPARING SOIL WETTING AND RUNOFF GENERATION PATTERNS AT SMALL SCALE IN CONTROL AND HYDRO-MULCHED AREAS IN A BURNT MARITIME PINE STAND IN CENTRAL PORTUGAL *Diana Catarina Simões Vieira, Aveiro - Portugal*
	S03.01-P -5 EFFECT OF SOLUBLE HUMIC ACIDS ON THE UPTAKE OF HEAVY METALS BY VETIVERIA ZIZANIOIDES IN CONTAMINATED MINE SOILS *Ana Moliner, Madrid - Spain*
	S03.01-P -6 EFFECTIVENESS OF ENCLOSURES IN RESTORATION OF DEGRADED SEMI-ARID RANGELAND IN LAKE BARINGO BASIN, KENYA *Eric Van Ranst, Gent - Belgium*
	S03.01-P -7 EFFECTS OF DIRECT DRILL AND CA-AMENDMENT OVER SOME BIOLOGICAL PARAMETERS OF A DEGRADED SOIL IN WESTERN SPAIN *Paloma Leon, Madrid - Spain*
	S03.01-P -8 EFFECTS OF SOIL CLEAN - UP USING LEMON GRASS ON THE INTERACTION OF SELECTED SOIL MINERALS WITH ORGANIC POLLUTANTS: MANAGEMENT IMPLICATIONS *Eucharia Nwaichi, Port Harcourt - Nigeria*
	S03.01-P -9 EFFECTS OF TOPSOIL REMOVAL AS A NATURE MANAGEMENT TECHNIQUE ON SOIL FUNCTIONS *Violette Geissen, Wageningen - Netherlands*
	S03.01-P -10 EVALUATION OF AGGREGATES DISTRIBUTION AND OF THE MEAN WEIGHT DIAMETER OF A CONSTRUCTED SOIL, IN A COAL MINING AREA, SOUTHERN BRAZIL, CULTIVED WITH DIFFERENT SPECIES *Eloy Antonio Pauletto, Pelotas-RS - Brazil*
17.00-18.30	S03.01-P -11 IMPACT OF GRAZING ON SOIL CHARACTERISTICS IN THE SAVANNA OF NORTHERN SENEGAL *Cecile Guillet, Gießen - Germany*
	S03.01-P -12 INFLUENCE OF MOULDBOARD PLOUGHING AND SHALLOW TILLAGE ON SOIL PHYSICAL PROPERTIES AND CROP PERFORMANCE *Nargish Parvin, Uppsala - Sweden*
	S03.01-P -13 INFLUENCE OF SELECTED LAND USE TYPES AND SOIL TEXTURE INTERACTIONS ON SOME SOIL PHYSICAL CHARACTERISTICS IN AN ALLUVIAL LAND *Orhan Dengiz, Samsun - Turkey*
	S03.01-P -14 LAND TAKE IMPACT ON SOIL RESOURCES IN TURKEY *Yusuf Yigini, Ispra (VA) - Italy*
	S03.01-P -15 LAND TAKE IMPACT ON SOIL RESOURCES: A METHODOLOGICAL APPROACH *Ciro Gardi, Ispra (VA) - Italy*
	S03.01-P -16 LOAD INDUCED SOIL DEFORMATION UNDER CONSERVATION AND CONVENTIONAL TILLAGE IN SOUTH NORWEGIAN SOILS *Alexander Zink, Kiel - Germany*
	S03.01-P -17 MACRONUTRIENT INPUT THROUGH LITTER IN A RIPARIAN FOREST ON DIFFERENT BRAZILIAN SOILS *Marcio Roberto Soares, Araras - Brazil*
	S03.01-P -18 MAPPING DEGRADATION AND CONSERVATION IN 16 STUDY SITES OF THE DESIRE PROJECT *Godert Van Lynden, Wageningen - Netherlands*
	S03.01-P -19 PEDO-ECOLOGICAL PATCHINESS AS AFFECTED BY ROCK FRAGMENTS IN SEMIARID RANGELANDS *Sarah Pariente, Ramat Gan - Israel*
	S03.01-P -20 PENETROMETER RESISTANCE AS AFFECTED BY CROP SEQUENCE AND MECHANICAL DECOMPACTION IN A DEGRADED SOIL IN THE *Guillermo Raúl Gerster, Oliveros - Argentina*
	S03.01-P -21 PHYSICAL PROPERTIES OF VOLCANIC ASH SOILS IN SOUTHERN CHILE *Patrick Neumann, Kiel - Germany*
	S03.01-P -22 RECOVER OR ORGANIC CARBON AND NITROGEN BY REVEGETATION OF A DEEPLY EXCAVATED OXISOL DURING 19 YEARS *Carolina Dos Santos Batista Bonini , Ilha Solteira - Brazil*
	S03.01-P -23 RELATION BETWEEN GLOMALIN AND WATER STABLE AGGREGATES IN THE SOIL OF TWO DIFFERENTLY MANAGED OLIVE ORCHARDS IN SOUTH OF ITALY *Luca Lombardo, Potenza - Italy*

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POSTER SESSIONS

	S03.01-P -24 RUNOFF AND SOIL EROSION CONTROL WITH PAM AND FOREST RESIDUE MULCHING AFTER FOREST FIRES IN PORTUGAL. *Sílvia Regina Faria, Aveiro - Portugal*
	S03.01-P -25 SALINIZATION LEVELS OF SOIL AND WATER IN A MEDITERRANEAN COASTAL WETLAND: THE PEGO-OLIVA MARSH (SPAIN) *Eugenia Gimeno-García, Moncada - Spain*
	S03.01-P -26 SOIL COMPACTION SUSCEPTIBILITY: TUNING OF A NEW ESTIMATION INDEX *Sergio Pellegrini, Firenze - Italy*
	S03.01-P -27 SOIL DEGRADATION AND DESERTIFICATION IN THE MEDITERRANEAN: PROBLEMS AND POSSIBLE SOLUTIONS *Jose Luis Rubio, Moncada, Valencia - Spa*
	S03.01-P -28 SOIL DEGRADATION INDUCED BY THE CHANGE IN MANAGEMENT OF THE “ARENADOS” SYSTEM (LANZAROTE, CANARY ISLANDS) *Francisco Díaz, La Laguna - Spain*
	S03.01-P -29 SOIL PHYSICAL PROPERTIES UNDER DIFFERENT CROPPING SYSTEMS IN ESTONIA *Diego Sánchez De Cima, Tartu - Estonia*
	S03.01-P -30 SOIL QUALITY AND PRODUCTIVITY LOSSES DUE TO COMPACTION IN ESTONIAN GRASSLANDS *Endla Reintam, Tartu - Estonia*
	S03.01-P -31 SOIL QUALITY EVALUATION UNDER AGRO-SILVO-PASTORAL MEDITERRANEAN MANAGEMENT SYSTEMS *Rosa Francaviglia, Rome - Italy*
	S03.01-P -32 SOIL QUALITY INDEX TO COASTAL PLAIN ECOSYSTEM FOREST *José Carlos Casagrande, Araras - Brazil*
	S03.01-P -33 SOIL QUALITY RECOVERY FOLLOWING NATURAL VEGETATION SUCCESSION AFTER LAND ABANDONMENT *Erik Cammeraat, Amsterdam - Netherlands*
	S03.01-P -34 SOIL RESISTANCE TO PENETRATION OF AN OXISOL IN RECOVERY BY 19 YEARS *Carolina Dos Santos Batista Bonini , Ilha Solteira - Brazil*
	S03.01-P -35 SOIL SALINITY ASSESSMENT IN THE NERETVA RIVER FLOODPLAINS *Monika Zovko, Zagreb - Croatia*
17.00-18.30	S03.01-P -36 SOIL SECURITY - PRIORITIZING GLOBAL UNDERSTANDING OF SOIL DEGRADATION AND ITS AMELIORATION *Andrea Koch, Sydney - Australia*
	S03.01-P -37 SOIL STRUCTURE IN THE MAIN ECOSYSTEMS OF THE MEDITERRANEAN ISLE OF PIANOSA, ITALY *Roberto Pini, Pisa - Italy*
	S03.01-P -38 SUSTAINABLE MANAGEMENT SYSTEMS AFFECT TOPSOIL PHYSICAL PROPERTIES AND ORGANIC C CONTENT IN A HIGH DENSITY OLIVE ORCHARD *Nadia Vignozzi, Firenze - Italy*
	S03.01-P -39 THE CONTRIBUTION OF KEY MICROORGANISMS FOR RESTORING SOILS FROM FORMER COAL MINING SITES *Jessica Gutknecht, Halle - Germany*
	S03.01-P -40 THE ECOLOGIGAL RECOVERY OF THE STERILE DUMPS FROM HUSNICIOARA QUARRY, DISTRICT MEHEDINTI *Ana Maria Dodocioiu, Craiova - Romania*
	S03.01-P -41 THE EFFICIENCY OF DIFFERENT APPROACHES TO ANTI-EROSION PROTECTION IN SELECTED AREAS *Borivoj Sarapatka, Olomouc - Czech Republic*
	S03.01-P -42 THE IMPACT OF ANTHROPOGENIC SOIL SEALING ON THE SOILS OF PROTECTED COASTAL LAGOONS (ALBUFERA DE VALENCIA, SPAIN) *Juan Antonio Pascual Aguilar, Valencia - Spain*
	S03.01-P -43 THE SOIL AND NUTRIENT LOSSES BY LIQQUID RUNOFF ON SLOPE SOILS *Ana Maria Dodocioiu, Craiova - Romania*
	S03.01-P -44 TREE COVER INFLUENCE ON WATER BALANCE OF SOILS IN SEMI-ARID REGIONS *Maarten De Boever, Ghent - Belgium*
	S03.01-P -45 EFFECTS OF SOIL TEXTURE AND LAND USE INTERACTIONS ON ORGANIC CARBON AMOUNTS IN SOILS IN NORTH OF IRAN *Farshad Kiani, Gorgan - Iran, Islamic Republic of*
	S03.01-P -46 EVALUATION OF SOIL WORKABILITY USING MICROLEIS DSS IN PISTACHIO ORCHARDS OF RAFSANJAN, IRAN *Ardavan Kamali, Rafsanjan - Iran, Islamic Republic of*
	S03.01-P -47 SURVEY OF THE EFFECT OF PLANTS ON SOIL PROPERTIES AND STABILIZATION (CASE STUDY:SEMNAN-IRAN) *Gholamreza Zehtabian, tehran - Iran, Islamic Republic of*

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17.00-18.30	S03.01-P -48 THE EVALUATION OF EROSION HAZARD IN DASTKAN REGION - IRAN BY SLEMSA METHOD *Mojgan Entazari Najafabadi, Isfahan - Iran, Islamic Republic of*
	S03.01-P -49 THE QUALITATIVE EVALUATION OF SOIL EROSION HAZARD *Mojgan Entezari Najafabadi, Isfahan - Iran, Islamic Republic of*
	S04.04-P **LANDSCAPE-SCALE MODELLING OF SOIL PROCESSES IN AGROECOSYSTEMS**
	S04.04-P -1 APPLICATION OF THE LANDSOIL MODEL TO SIMULATE WATER AND TILLAGE EROSION IN AN INTENSIVELY FARMED LANDSCAPE SUBMITTED TO LAND CONSOLIDATION WITH CONTRASTING SOIL TYPES *Sébastien Salvador-Blanes, Tours - France*
	S04.04-P -2 ASSESSMENT OF SOIL WATER REGIME IN THE PRESENT AND FUTURE CLIMATE: A CASE STUDY IN AN OLIVE-CULTIVATED AREA IN SOUTHERN ITALY *Silvia Maria Alfieri, Ercolano (NA) - Italy*
	S04.04-P -3 CLUSTERING OF TOP SOIL PROPERTIES FOR SOIL EROSION MODELING AT DETAILED SCALE *José A. Martínez-Casasnovas, Lleida - Spain*
	S04.04-P -4 CONTINUOUS DEPTH FUNCTION MAPPING OF SOIL PH VARIABILITY IN DENMARK *Kabindra Adhikari, Tjele - Denmark*
	S04.04-P -5 DATA MINING APPLIED TO DIGITAL SOIL MAPPING OF THE AREA OF SÃO PEDRO, BRAZIL *Célia Regina Paes Bueno, Jaboticabal - Brazil*
	S04.04-P -6 EFFECTS OF INCREASED CROP PRODUCTION FOR BIO-ENERGY USE ON SOIL EROSION RISK – EXAMPLES FROM THE STATE OF HESSE (GERMANY) *Björn Tetzlaff, Jülich - Germany*
	S04.04-P -7 ESTIMATION OF THE USLE/RUSLE R PARAMETER WITH SCARCE RAINFALL DATA *Miguel Azevedo Coutinho, Lisboa - Portugal*
	S04.04-P -8 FORECASTING SOIL AGROCHEMICAL PROPERTIES FROM ATR-MIR SPECTROSCOPY AND PARTIAL LEAST-SQUARES REGRESSION ANALYSIS *Lorena Recio-Vázquez, Madrid - Spain*
	S04.04-P -9 HIGH RESOLUTION 3D MODELING OF SOIL ORGANIC CARBON IN A COMPLEX AGRICULTURAL LANDSCAPE USING CONTINUOUS DEPTH FUNCTIONS *Marine Lacoste, Rennes - France*
	S04.04-P -10 HOW DOES AGROFORESTRY SYSTEM AFFECT SOIL QUALITY IN TEMPERATE AREAS? *Hongtao Hao, Rennes - France*
	S04.04-P -11 HYDROLOGICAL INSTRUMENTATION OF A PILOT CATCHMENT IN VIEW TO IMPROVE THE SOIL LOSS MODELING: FOCUS ON THE SPATIAL DISTRIBUTION OF EROSION AND DEPOSITION (LOAMY REGION, BELGIUM) *Nathalie Pineux, Gembloux - Belgium*
	S04.04-P -12 HYPER-SCALE DIGITAL TERRAIN ANALYSIS – THE CONMAP APPROACH FOR DIGITAL SOIL MAPPING *Thorsten Behrens, Tuebingen - Germany*
	S04.04-P -13 INITIAL SEDIMENT DISTRIBUTION AND SURFACE DEVELOPMENT OF AN ARTIFICIAL CATCHMENT *Horst H. Gerke, Muencheberg - Germany*
	S04.04-P -14 INTEGRATION OF A NATIONAL SPATIAL SOIL INFORMATION AND A MONITORING SYSTEM FOR THE IMPROVEMENT OF THEIR SPATIO-TEMPORAL CHARACTERISTICS *Pásztor László, Budapest - Hungary*
	S04.04-P -15 SOILS AS NATURAL LANDSCAPE COMPONENTS: MAPPING AND CLASSIFICATION *Alexandra Nikiforova, Moscow - Russian Federation*
	S04.04-P -16 SOLUTE DYNAMICS IN THE CRITERIA MODEL *Antonio Volta, Bologna - Italy*
	S04.04-P -17 SOME SOIL PHYSICAL PROPERTIES AS RELATED TO LANDSCAPE POSITION: A GEOSTATISTICAL STUDY *Askin Tayfun, Ordu - Turkey*
	S04.04-P -18 SPATIAL AND QUANTITATIVE IDENTIFICATION OF NITRATE LEACHING RISK ASSESMENT *Marjan Sinkovec, Ljubljana - Slovenia*
	S04.04-P -19 THE CROP ADAPTABILITY INFORMATION SYSTEM (CAIS) *Antonello Bonfante, Ercolano (NA) - Italy*
	S04.04-P -20 THE IMPLEMENTATION OF EMPIRICAL KNOWLEDGE IN DIGITAL SOIL MAPPING *Borut Vrščaj, Ljubljana - Slovenia*
	S04.04-P -21 WEB GIS BASED LANDSCAPE SCALE SIMULATION OF RUNOFF AND SOIL EROSION IN TWO STUDY AREAS IN GERMANY AND CHINA – DATA AVAILABILITY AND METHODOLOGIES *Ralph Meissner, Falkenberg - Germany*

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POSTER SESSIONS

	S07.04-P **SOIL ORGANIC MATTER DYNAMICS AND CLIMATE**
	S07.04-P -1 BIOAVAILABILITY OF FUNCTIONAL SOM POOLS *Elke Schulz, Halle - Germany*
	S07.04-P -2 CAN CONTINUOUS 13CO2 PLANT LABELLING BE USED FOR CLOSING THE ANNUAL CARBON BUDGET OF AN AGRICULTURAL SOIL? *Enrico Weber, Jena - Germany*
	S07.04-P -3 CAN ENHANCED NITROGEN DEPOSITION LIMIT THE EFFECTS OF RISING TEMPERATURES ON DECOMPOSITION OF SOIL ORGANIC MATTER (SOM) IN TEMPERATE FORESTS? *Shimon Ozeri Ginzburg, Copenhagen - Denmark*
	S07.04-P -4 CHANGES INDUCED IN SOIL ORGANIC MATTER DYNAMICS BY CONVERSION TO IRRIGATION IN NAVARRE (NE SPAIN) *Marcos Apesteguia, Pamplona - Spain*
	S07.04-P -5 EFFECT OF SOIL STRUCTURE ON THE BIODEGRADATION OF NATIVE AND FRESH ORGANIC MATTER *Sabrina Juarez, Thiverval Grignon - France*
	S07.04-P -6 FATE OF NITROGEN IN EUROPEAN BEECH FOREST SOILS MONITORED USING LONG-TERM 15N LABELLED LITTER EXPERIMENT *Jade Salleles, Nancy - France*
	S07.04-P -7 HIGH SOIL MOISTURE CAN IMPROVE C INCORPORATION AND TRANSLOCATION IN THE PLANT-SOIL SYSTEM, BUT CAN ALTER C PRESERVATION IN SOIL *Guido Wiesenberg, Bayreuth - Germany*
	S07.04-P -8 INFLUENCE OF CHEMICAL COMPOSITION AND ANATOMICAL STRUCTURE OF LEAVES ON LITTER DECOMPOSITION RATE OF QUERCUS FRAINETTO TEN. AND QUERCUS CERRIS L. IN SITU *Miroslava Mitrovic, Belgrade - Serbia*
	S07.04-P -9 LINKING MEASURED CARBON FRACTIONS WITH ROTHC MODEL POOLS *Michael Herbst, Jülich - Germany*
	S07.04-P -10 MASTER FUNCTION FOR THE SOLID:SOLUTION EQUILIBRIUM OF DOC IN TAIGA AND TUNDRA SOILS: EXPERIMENTAL AND MODELING RESULTS *Sjoerd Van Der Zee, Wageningen - Netherlands*
	S07.04-P -12 PHYSICAL FRACTIONATION OF AN ALFISOL UNDER SUGAR CANE IN RIO GRANDE DO SUL STATE
17.00-18.30	*Cláudia Liane Rodrigues De Lima, Pelotas - Brazil*
	S07.04-P -13 POTENTIAL OF THE OLIVE MILL WASTE AMENDMENT FOR IMPROVING SOIL FERTILITY AND CARBON SEQUESTRATION IN DEGRADED SOILS *José Manuel Rato Nunes, Lisboa - Portugal*
	S07.04-P -14 PRIMING EFFECTS ALTER THE TEMPERATURE RESPONSE OF SOIL ORGANIC MATTER MINERALISATION *Claire Ghee, Aberdeen - United Kingdom*
	S07.04-P -15 REGIONAL ESTIMATION OF SOIL CARBON STOCKS AND CHANGES IN GERMANY`S FOREST SOILS BASED ON THE NATIONAL FOREST SOIL INVENTORY TO PROVIDE THE GREENHOUSE GAS REPORTING *Erik Grüneberg, Eberswalde - Germany*
	S07.04-P -16 SOM CONTENT THRESHOLD LEVELS TAILORED TO NATURAL AND ANTHROPOGENIC CONDITIONS *Borut Vrscaj, Ljubljana - Slovenia*
	S07.04-P -17 TEMPERATURE SENSITIVITY OF DECOMPOSITION IN A PEAT PROFILE *Emmi Hilasvuori, Helsinki - Finland*
	S07.04-P -18 THE CONCEPTUAL MODEL OF INTERRELATIONSHIP OF CYCLES OF CARBON AND OXYGEN *Alexander Popov, St. Petersburg - Russian Federation*
	S07.04-P -19 USING A FULL ECOSYSTEM MODEL TO EXPLAIN THE SOIL CARBON DECREASE OBSERVED IN ENGLAND AND WALES *Bertrand Guenet, Gif Sur Yvette - France*
	S10.01-P **PLANT SOIL INTERACTIONS FROM THE RHIZOSPHERE TO THE FIELD SCALE**
	S10.01-P -1 ACTIVITY OF SOIL MICROORGANISMS INFLUENCED BY TWO-YEAR CROP ROTATION *Inga Jansone, Dizstende, Talsu district - Latvia*
	S10.01-P -2 AGE OF FINE ROOT CARBON IN BOREAL CONIFER FORESTS DETERMINED BY RADIOCARBON METHOD *Shambhu Prasad Sah, Helsinki - Finland*
	S10.01-P -3 AMELIORATIVE EFFECT OF SILICON, CHICKEN MANURE ON YIELD AND AVAILABILITY OF NUTRIENTS UPTAKE BY BARLEY PLANS, GROWN IN NEWLY RECLAIMED SOILS *Hanan Siam, Cairo - Egypt*
	S10.01-P -4 ARTIFICIAL VISION SYSTEM FOR THE IDENTIFICATION OF SULFUR NUTRITION OF CORN PLANTS *Pedro Henrique De Cerqueira Luz, Pirassununga - Brazil*

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POSTER SESSIONS

	S10.01-P -5 BARRIER FUNCTIONS PLANTS IN THE CONDITION OF SOIL CONTAMINATION BY HEAVY METALS *Saglara Mandzhieva, Rostov-on-Don - Russian Federation*
	S10.01-P -6 BELOWGROUND BIOMASS AND ROOT DISTRIBUTION OF TWO PERENNIAL BIOMASS CROPS IN A DEEP LOAMY SOIL *Fabien Ferchaud, Laon - France*
	S10.01-P -7 BIODIVERSITY AND THROUGHFALL KINETIC ENERGY IN FOREST ECOSYSTEMS IN THE HUMID SUBTROPICS OF SE CHINA – EFFECTS OF TREE CANOPY STRUCTURE, TRAITS, AND DIVERSITY *Christian Geißler, Tübingen - Germany*
	S10.01-P -8 BIOGENIC TRANSFORMATION OF CLAY MINERALS IN FOREST-STEPPE SOILS *Alexander Shinkarev, Kazan - Russian Federation*
	S10.01-P -9 BIOTRANSFORMATION OF SE BY SE-TOLERANCE RHIZOBACTERIA ISOLATED FROM RHIZOSPHERE OF CEREALS GROWN IN ANDISOL *Jacquelinne Acuna, Temuco - Chile*
	S10.01-P -10 CALCIUM DEFICIENCY IN CORN PLANTS IDENTIFIED BY ARTIFICIAL VISION SYSTEM *Pedro Henrique De Cerqueira Luz, USP - Pirassununga ~ Brazil*
	S10.01-P -11 CALIBRATION OF TRANSPIRATION REDUCTION FUNCTION PARAMETERS USING SWAP AND PEST *Quirijn De Jong Van Lier, Piracicaba - Brazil*
	S10.01-P -12 CHANGES IN BIOPORE ARCHITECTURE AFTER RECOLONIZATION OF SOIL MICROCOSMS WITH ANECIC EARTHWORM SPECIES INVESTIGATED BY X-RAY MICROTOMOGRAPHY *Sebastian K. Pagenkemper, Kiel - Germany*
	S10.01-P -13 COMBINING PHYTOMINING AND HYDROMETALLURGY FOR NICKEL PRODUCTION *Marie-Odile Simonnot, Nancy - France*
	S10.01-P -14 COMPARATIVE STUDIES OF RELATION BETWEEN SOIL TEXTURE AND SCOTS PINE (PINUS SYLVESTRIS L.) GROWTH IN POLAND AND FINLAND *Piotr Sewerniak, Torun - Poland*
	S10.01-P -15 CORRELATIONS OF METALS CONCENTRATIONS IN MINING-AFFECTED SOILS AND THEIR ACCUMULATIONS IN EDIBLE PLANTS USING MULTIVARIATE ANALYSIS *Marin Senila, Cluj-Napoca - Romania*
	S10.01-P -16 COUPLING THE LAND SURFACE MODEL NOAH WITH THE GENERIC CROP GROWTH MODEL GECROS *Joachim Ingwersen, Hohenheim - Germany*
17.00-18.30	S10.01-P -17 DENSITY OF PLANTATION, SOIL HUMIDITY AND SOIL DEPTH INFLUENCE CATABOLIC STRUCTURE OF MICROBIAL COMMUNITIES IN MAIZE CROP SYSTEM *Berard Annette, Avignon - France*
	S10.01-P -18 DIURNAL VARIATION IN PHOTOSYNTHESIS AFFECTS ROOT RESPIRATION RATE IN BLOOD LEAVED JAPANESE TREES *Naoki Makita, Kyoto - Japan*
	S10.01-P -19 DIVERSITY OF ARBUSCULAR MYCORRHIZAL FUNGI IN DISTINCT MANAGEMENT SYSTEMS OF PEANUT *Milene Moreira, Piracicaba - Brazil*
	S10.01-P -20 DIVERSITY OF SOILS AND VEGETATION ON INLAND DUNES IN THE MILITARY AREA NEAR TORUN (NORTHERN POLAND) *Piotr Sewerniak, Torun - Poland*
	S10.01-P -21 DO PLANT SPECIES INDUCE DIVERGENCE IN SOIL MICROBIAL DIVERSITIES? A CASE STUDY FROM THE NEGEV DESERT *Adrian Unc, Las Cruces, New Mexico - United States*
	S10.01-P -22 EFFECT OF APPLICATION LIME AND GYPSUM BY-PRODUCTS TO A DEGRADED MEDITERRANEAN ULTISOL ON THE DEVELOPMENT OF QUERCUS SUBER AND QUERCUS FAGINEA IN THE “DEHESA” AGROSYSTEM *Ignacio Mariscal-Sancho, Madrid - Spain*
	S10.01-P -23 EFFECT OF BORON AND LIMING ON THE DEVELOPMENT FOREST SPECIES PLANT OF THE ATLANTIC FOREST *José Carlos Casagrande, Araras - Brazil*
	S10.01-P -24 EFFECT OF BORON AND LIMING ON THE INITIAL DEVELOPMENT OF EUGENIA DYSENTERICA DC., A NATIVE VEGETAL SPECIE OF BRAZILIAN CERRADO *Mariane De Souza Oliveira, Araras - Brazil*
	S10.01-P -25 EFFECT OF CONVENTIONAL AND ORGANIC CROPPING SYSTEMS ON BELOW GROUND C AND N INPUTS FROM SOYBEAN AND ITS FATE INTO FUNCTIONAL POOLS *Andreas Hammelehle, Zürich - Switzerland*
	S10.01-P -26 EFFECT OF DIFFERENT N MANAGEMENT ON IMPROVING N EFFICIENCY IN RICE- TAROM VARIETY *Maryam Valynejad, Savadkooh Branch - Iran, Islamic Republic of*
	S10.01-P -27 EFFECT OF DIFFERENT SOIL AMENDMENTS AND ORGANIC FERTILIZERS ON THE BIOLOGICAL SOIL QUALITY AND MYCORRHIZATION OF STRAWBERRY CROPS *Lidia Sas Paszt, Skierniewice - Poland*
	S10.01-P -28 EFFECT OF GYPSUM ADDITION ON MINERAL CONTENT IN HIGHBUSH BLUEBERRY GROWING IN AN ANDISOL WITH HIGH ALUMINUM SATURATION *Cristian Meriño-Gergichevich, Temuco - Chile*

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17.00-18.30	S10.01-P -29 EFFECT OF PERENNIAL FODDER CROPS ON ROOT GROWTH OF SUBSEQUENTLY GROWN WHEAT *Ute Katharina Perkons, Bonn - Germany*
	S10.01-P -30 EFFECT OF SOIL DEPTH AND MYCORRHIZA ON RHIZOSPHERE EXTENSION UNDER TWO CATCH CROPS *Silke Hafner, Bayreuth - Germany*
	S10.01-P -31 EFFECT OF SOIL NUTRIENT AVAILABILITY ON NOCTURNAL WATER RELATIONS AND FINE-ROOT ACCLIMATION IN HYBRID ASPEN SEEDLINGS *Priit Kupper, Tartu - Estonia*
	S10.01-P -32 EFFECTS OF DIFFERENT COMPOST DOSES ON THE MOST IMPORTANT PARAMETERS OF SOILS AND PERENNIAL RYEGRASS (LOLIUM PERENNE L.) *Anita Szabó, Debrecen - Hungary*
	S10.01-P -33 EFFECTS OF NITROGEN ON PHOTOSYNTHESIZED CARBON INPUT INTO SOIL ORGANIC CARBON POOLS IN A RICE–SOIL SYSTEM *Tida Ge, Changsha - China*
	S10.01-P -34 EFFECTS OF TREE DIVERSITY ON TRANSFORMATION AND TRANSLOCATION OF CARBON AND NITROGEN IN FOREST SOIL *Janine Sommer, Goettingen - Germany*
	S10.01-P -35 EFFECTS OF TRIPARTITE SYMBIOSIS AND DROUGHT STRESS ON ALFALFA ZINC UPTAKE IN STERILIZED AND UNSTERILIZED SOILS *Leyla Hassani Rezaei, Tehran - Iran, Islamic Republic of*
	S10.01-P -36 ESTIMATING THE PARAMETERS OF A 3D ROOT DISTRIBUTION FUNCTION FROM ROOT OBSERVATIONS WITH THE TRENCH PROFILE METHOD *Joachim Vansteenkiste, Heverlee - Belgium*
	S10.01-P -37 EVALUATION OF ARTIFICIAL VISION SYSTEM FOR NITROGEN DIAGNOSIS IN PLANTS OF MAIZE *Pedro Henrique De Cerqueira Luz, USP - Pirassununga - Brazil*
	S10.01-P -38 GENOTYPIC DIFFERENCES IN THE QUALITY AND QUANTITY OF DEFENSIVE COMPOUNDS IN BETULA PENDULA LITTER REMAIN DURING DECOMPOSITION *Ulla Paaso, Lahti - Finland*
	S10.01-P -39 GROWTH OF FABA BEAN IN SALINE-SODIC SOILS: MONITORING OF LEAF DEVELOPMENT AND WATER USE DYNAMICS ENABLES THE QUANTIFICATION OF OSMOTIC AND IONIC REGULATION AT WHOLE-PLANT LEVEL *Ehsan Tavakkoli, Adelaide - Australia*
	S10.01-P -40 IMPACT OF TRANSGENIC BARLEY LINE H228.2A ON SOIL MICROORGANISMS *Lelde Grantina, Riga - Latvia*
	S10.01-P -41 INFLUENCE OF A PHOSPHO-POTASSIC FERTILIZER SOLUTION ON YIELD AND QUALITY OF TRICUM DURUM ON MEDITERRANEAN SOIL *Mª Concepción Benítez, Córdoba - Spain*
	S10.01-P -42 INFLUENCE OF LEAD TRANSFER WAY (ROOT OR FOLIAR) ON METAL SPECIATION AND BIOACESSIBILITY. CASE OF CROPS CONTAMINATION BY ATMOSPHERIC FALLOUTS *Eva Schreck, Toulouse - France*
	S10.01-P -43 INVERSE MODELING OF ROOT WATER EXTRACTION BY MEANS OF A SINK TERM *Marcus Guderle, Jena - Germany*
	S10.01-P -44 IRON MOBILIZATION BY PHYTOSIDEROPHORES IN RELATION TO RHIZOSPHERE PROPERTIES *Walter Schenkeveld, Vienna - Austria*
	S10.01-P -45 MAPPING OF ROOT DEPLETION ZONES IN RHIZOBOXES USING THE DGT TECHNIQUE AND AUTORADIOGRAPHY *Laetitia Six, Leuven - Belgium*
	S10.01-P -46 METABOLIC PROFILING OF ROOTS AND ROOT EXUDATES OF DURUM WHEAT (TRITICUM DURUM DESF.) *Anna Iannucci, Foggia - Italy*
	S10.01-P -47 MODELING OF THE DIFFUSION OF VOCS EMITTED BY BARLEY ROOTS *Laura Hirtt, Gembloux - Belgium*
	S10.01-P -48 MODELLING PHOSPHORUS ACQUISITION FROM THE SUB-SOIL FOR DIFFERENT CROPS WITH SPECIFIC CONSIDERATION OF BIO-PORES *Thomas Gaiser, Bonn - Germany*
	S10.01-P -49 MOLECULAR AND BIOCHEMICAL CHARACTERIZATION OF THE RHIZOSPHERE SOIL OF A CLOSED LANDFILL FOR ITS ENVIRONMENTAL RESTORATION *Daniela Cassano, Bari - Italy*
	S10.01-P -50 NITROGEN SOURCES PARTITIONING BY CO-OCCURRING PLANT SPECIES WITHIN AN ALPINE LICHEN HEATH IN THE NORTHERN CAUCASUS *Mikhail Makarov, Moscow - Russian Federation*
	S10.01-P -51 NUTRIENT UPTAKE BY WHEAT AS AFFECTED BY NITROGEN AND SULFUR APPLICATIONS UNDER WATER STRESS CONDITIONS *Abdel Khalek Selim, Cairo - Egypt*
	S10.01-P -52 RECENT CHANGES IN SOIL FERTILITY, FERTILIZATION AND CROP PRODUCTION IN JAPAN *Mishima Shin-Ichiro, Tsukuba - Japan*

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	S10.01-P -53 RELATIONSHIP BETWEEN TREE SEEDLINGS GROWTH AND CONTENT OF AL AND BASE CATIONS IN SOIL *Lubos Boruvka, Suchdol - Czech Republic*
	S10.01-P -54 SEASONAL CHANGES IN SOIL BULK DENSITY UNDER SEMIARID PATCHY VEGETATION *Juan Luis Mora, Zaragoza - Spain*
	S10.01-P -55 SOIL-PLANT INTERACTIONS AND THEIR EFFECTS ON SOIL RESPIRATION IN A PASTURE OF THE ITALIAN ALPS *Chiara Ferré, Milan - Italy*
	S10.01-P -56 SPATIAL ANALYSIS OF SOIL FERTILITY IN IRRIGATED AREAS OF THE CERRADO REGION OF BRAZIL *Celia Regina Bueno, Jaboticabal - SP - Brazil*
	S10.01-P -57 SPATIO-TEMPORAL CHANGES OF SOIL MICROBIAL COMMUNITY AND ITS FUNCTIONAL DIVERSITY IN THE VICINITY TWO DESERT SHRUBS CANOPIES IN THE NEGEV DESERT, ISRA *Yosef Steinberger, Ramat Gan - Israel*
	S10.01-P -58 STABLE ISOTOPE PROBING OF THE RHIZOSPHERE COMMUNITY IN POPULUS TREMULOIDES MICHX. AND ALNUS CRISPA AIT *Mark Beasse, Edmonton, Alberta - Canada*
	S10.01-P -59 STIMULATIVE EFFECT OF FIVE HUMIC SUBSTANCES ON SEED GROWTH OF HEMP (CANNABIS SATIVA L.), POPPY (PAPAVER SOMNIFERUM L.), PEPPER (CAPSICUM ANNUUM L.) AND RAPE (BRASSICA NAPUS SUBSP. NAPUS) *Bozena Sera, Ceske Budejovice - Czech Republic*
	S10.01-P -60 SUBSTITUTION OF TRIPLE SUPERPHOSPHATE (TSP) BY FARMYARD MANURE (FYM) AND IT'S LOCAL PLACEMENT AFFECT ROOT GROWTH AND GRAIN YIELDS OF MAIZE IN WESTERN KENYA *Abigael Nekesa Otinga, Leuven - Belgium*
	S10.01-P -61 THE CHEMICAL SUBSTANTIATION OF THE RELATIONSHIPS BETWEEN CERTAIN BIOMETRIC INDICATORS AND SOME PARAMETERS WHICH EXPRESS THE SOIL CLAY QUANTITY AND QUALITY *Marius Laurentiu Eftene, Bucharest - Romania*
	S10.01-P -62 THE EFFECT OF RHIZOSPHERE SOIL, AND MYCORRHIZAL INOCULATION ON WHEAT AND ONION GROWTH UNDER METHYL BROMIDE FUMIGATED AND NON-FUMIGATED FIELD CONDITION IN THE MEDITERRANEAN SOIL CONDITIONS *Ibrahim Ortas, Adana ~ Turkey*
	S10.01-P -63 THE ENHANCEMENT OF SEWAGE SLUDGE BIOPOTENTIAL USING MIXED MICROBIAL POPULATIONS
17.00-18.30	*Ivana Spasojevic, Belgrade - Serbia*
	S10.01-P -64 TITLE: MAIZE-MANGO INTERCROPPING AND ITS EFFECT ON SOIL FERTILITY *Holger Fischer, Stuttgart - Germany*
	S10.01-P -65 TRANSFER OF URANIUM ISOTOPES, THORIUM AND THEIR DECAY PRODUCTS FROM SOIL TO LETTUCE AND WHEAT IN FIVE DIFFERENT REGIONS OF THE FRENCH TERRITORY. *Jeambrun Marion, St Paul lez Durance - France*
	S10.01-P -66 VARIABILITY OF SOIL PROPERTIES AND PRODUCTIVITY OF FORESTS PLANTED ON AGRICULTURAL LAND *Aldis Karklins, Jelgava - Latvia*
	S10.01-P -67 WATER DEPLETION IN INTERCROPPING SYSTEMS: A CASE-STUDY IN WESTERN THAILAND *Garre Sarah, Leuven - Belgium*
	S10.01-P -68 WATER STRESS INDUCED REDUCTION OF TRANSPIRATION AND EFFECTS ON RADIAL GROWTH OF BEECH *Heike Puhlmann, Freiburg - Germany*
	S10.01-P -69 WILD PLANTS, PLASTICITY OF MINERAL NUTRITION AND MYCORRHIZA IN HETEROGENEOUS SOIL CONDITIONS OF COASTAL HABITATS *Ievinsh Gederts, Riga - Latvia*
	S10.01-P -70 WINTER COVER CROPS AND TIME OF PLANTING ON OVAL-LEAF FALSE BUTTONWEED (SPERMACOCE LATIFOLIA AUBL.) POPULATION *José Alfredo Baptista Dos Santos, Ponta Grossa - Brazil*
	S10.01-P -71 YIELD-TRANSPIRATION RELATIONS OF SAKHALIN KNOTWEED (FALLOPIA SACHALINENSIS) IN A LYSIMETER EXPERIMENT *Dario Mantovani, Cottbus - Germany*
	S10.01-P -72 PLANT ROOT ASSOCIATED BACTERIA FOR ZINC MOBILIZATION IN WHEAT *Azadeh Bapiri, Savadkooh - Iran, Islamic Republic of*
	S10.01-P -73 EFFECTS OF MOSS COVER ON SOME SOIL PHYSICAL AND CHEMICAL PROPERTIES *Mostafa Abdolahpour, Tehran - Iran, Islamic Republic of*
	S10.01-P -74 EFFECTS OF WASTEWATER APPLICATION ON SOME OF SOIL PHYSICAL AND CHEMICAL PROPERTIES IN SHAHR-E-KORD, IRAN *Afsaneh Alinejadian, Shahr-e-kord - Iran, Islamic Republic of*
	S10.01-P -75 THE EFFECT OF SOIL COMPACTION ON NITROGEN UPTAKE BY WHEAT'S SHOOT AND ROOT *Sahar Akhavan, Rasht - Iran, Islamic Republic of*

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POSTER SESSIONS

17.00-18.30	**S11.04-P** **ORGANIC MATTER DECOMPOSITION: DOES SOIL DIVERSITY MATTER?**
	S11.04-P -1 ASSESSMENT OF LONG-TERM TILLAGE SYSTEM INFLUENCES ON CATABOLIC POTENTIAL OF THE SOIL MICRO-DECOMPOSERS COMMUNITY *Mehdi Sharifi, Truro - Canada*
	S11.04-P -2 CHANGES IN LEAF LITTER QUALITY ALONG PURE BEECH FOREST AGEING AFFECT SOIL MICROBIAL COMMUNITY AND ORGANIC MATTER DECOMPOSITION *Jean Trap, Mont Saint Aignan - France*
	S11.04-P -3 CHITINOLYTIC AND PECTINOLYTIC COMMUNITY OF THE TERRESTRIAL AND SOIL ECOSYSTEMS IN CHERNOZEM ZONE *Evgenya Lukacheva, Moscow - Russian Federation*
	S11.04-P -4 DOES MICROBIAL COMMUNITY STRUCTURE CHANGE IN PYC TREATED FOREST TOPSOIL WITHIN THE FIRST YEAR? *Nimisha Singh, Zurich - Switzerland*
	S11.04-P -5 DYNAMIC RESPONSE OF MICROBIAL RESPIRATION TO MASS LOSS, CHEMICAL PROPERTIES, AND MORPHOLOGY OF DEAD FINE ROOTS IN A BROAD-LEAVED TEMPERATE FOREST, JAPAN *Ayumi Kawamura, Kyoto - Japan*
	S11.04-P -6 EVIDENCE THAT SOIL ORGANIC MATTER MINERALISATION IS NOT CONTROLLED BY THE SIZE, ACTIVITY OR BIODIVERSITY OF THE SOIL MICROBIAL BIOMASS – A NEW HYPOTHESIS *Philip Brookes, Harpenden - United Kingdom*
	S11.04-P -7 IMPACT OF N AVAILABILITY ON HETEROTROPHIC MICROBIAL DYNAMIC DURING DECOMPOSITION OF MISCANTHUS X GIGANTEUS LEAVES IN A SOIL *Isabelle Bertrand, Reims - France*
	S11.04-P -8 IMPACTS OF ORGANIC RESIDUE MANAGEMENT IN EUCALYPTUS FOREST ON MICROBIAL COMMUNITIES *Agnès Robin, Montpellier - France*
	S11.04-P -9 IMPLICATIONS OF EXTRACELLULAR ENZYMES ACTIVITIES ON C AND N DYNAMICS DURING LITTER DECOMPOSITION: EXPANDING A THEORETICAL MODEL *Gwenaëlle Lashermes, Reims - France*
	S11.04-P -10 INFLUENCE OF PLANT RESIDUE QUALITY ON ENZYMES DYNAMICS: IMPORTANCE OF ENZYME DISTRIBUTION BETWEEN SOIL AND RESIDUE *Isabelle Bertrand, Reims - France*
	S11.04-P -11 INVESTIGATING THE IMPACT OF PLANT COMPOSTING ON THE MICROBIAL DEGRADER COMMUNITY DYNAMICS IN SOIL USING PLFA-SIP APPROACH *Thomas Lerch, Paris - France*
	S11.04-P -12 MAY SOIL PARENT MATERIAL INFLUENCE NITROGEN TRANSFORMATION IN FOREST FLOOR? *Marina Nadporozhskaya, Saint-Petersburg - Russian Federation*
	S11.04-P -13 MICROBIAL HABITAT CONDITIONS OR MICROBIAL COMMUNITIES AS DRIVERS OF SOIL ORGANIC MATTER DECOMPOSITION? *Sabrina Juarez, Thiverval Grignon - France*
	S11.04-P -14 MODELING EARTHWORM POPULATION DYNAMICS IN SEVERAL ORGANIC MATTERS *Taofic Alabi, Gembloux - Belgium*
	S11.04-P -15 MODIFICATION OF A COMMERCIAL DNA EXTRACTION KIT TO SIMULTANEOUSLY RECOVER RNA, SAFELY AND RAPIDLY, AND TO ASSESS MOLECULAR BIOMASS OF THE TOTAL AND THE ACTIVE PART OF MICROBIAL COMMUNITIES, FROM SOILS WITH DIVERSE MINERALOGY AND CARBON CONTENT *Agnès Robin, Montpellier - France*
	S11.04-P -16 POTENTIAL INFLUENCE OF TERPENES ON SOIL ENZYMATIC ACTIVITY *Sylwia Adamczyk, Vantaa - Finland*
	S11.04-P -17 SPATIAL ECOLOGY OF BACTERIA IN SOIL: WHY DIVERSITY MAY NOT MATTER THAT MUCH *Xavier Raynaud, Paris - France*
	S11.04-P -18 SUBSTRATE INDUCED RESPIRATION METHODS: ARTEFACTS DEPEND ON SOIL, ADDED SUBSTRATE AND CO2 ACCUMULATION *Renault Pierre, Avignon - France*
	S11.04-P -19 TANNINS AS NITROGEN-RETAINING AGENTS IN BOREAL FOREST SOILS *Bartosz Adamczyk, Vantaa - Finland*
	S11.08-P **PHYSICO-CHEMICAL PROCESSES GOVERNING THE FATE AND TRANSPORT OF PATHOGENS AND BIOMACROMOLECULES IN SOILS**
	S11.08-P -1 ATTACHMENT OF PATHOGENIC PRION PROTEIN TO HUMIC SUBSTANCES *Christen Smith, Madison - United States*
	S11.08-P -2 BACILLUS CEREUS, A MODEL FOR STUDYING THE IMPACT OF CLIMATE CHANGES ON FOOD BORNE PATHOGENS FATE AND TRANSPORT IN SOILS? PRELIMINARY EXPERIMENTS *Berard Annette, Avignon - France*

MONDAY 2 JULY 2012 - GROUND FLOOR - Pavilion 9

POSTER SESSIONS

17.00-18.30	S11.08-P -3 DEVELOPMENT AND EVALUATION OF NEW QUANTITATIVE DNA ASSAYS IN SOIL TO PREDICT THE INCIDENCE OF SPECIFIC CROP DISEASES *Mélanie Bressan, Mont-Saint-Aignan - France*
	S11.08-P -4 EFFECT OF SOIL TYPE AND GEOCHEMICAL PROPERTIES ON PATHOGEN TRANSPORT IN SOIL COLUMNS *Soile Backnäs, Kuopio - Finland*
	S11.08-P -5 EFFECTS OF CARBON BASED NANOPARTICLES (CNPS) ON SORPTION AND MOBILITY OF THE SYNTHETIC HORMONE 17A-ETHINYLESTRADIOL (EE2) IN MODEL SOIL SOLUTION AND SOIL *Sina Egerer, Bochum - Germany*
	S11.08-P -6 EXTRACTABILITY OF P IN MAJOR SOILS OF ANGOLA AS AFFECTED BY FERTILIZER AND LIME APPLICATION *Edgardo Auxtero, Lisbon - Portugal*
	S11.08-P -7 IMPACT OF INNOVATIVE AGRICULTURAL SYSTEMS ON THE INCIDENCE OF SPECIFIC CROP DISEASES USING NEWLY DEVELOPED QUANTITATIVE DNA ASSAY *Mélanie Bressan, Mont-Saint-Aignan - France*
	S11.08-P -8 INACTIVATION OF SOIL-BOUND PRION PROTEIN BY PROTEOLYTIC ENZYMES FROM COMPOST *Clarissa Booth, Madison - United States*
	S11.08-P -9 INFLUENCE OF MINERAL PARTICLES ON THE INACTIVATION OF PATHOGENIC PRION PROTEIN *Clarissa Booth, Madison - United States*
	S11.08-P -10 INSECTICIDAL ACTIVITY AND DETECTABILITY OF TRANSGENIC INSECTICIDAL CRY1AB PROTEIN ADSORBED TO SOILS *Michael Sander, Zurich - Switzerland*
	S11.08-P -11 PREFERENTIAL FLOW AS AFFECTED BY SOIL TEXTURE AND WATER TEMPERATURE *Azadeh Safadoust, Hamedan - Iran, Islamic Republic of*
	S11.08-P -12 VIRUS ATTACHMENT ONTO CLAY COLLOIDS: BATCH AND TRANSPORT EXPERIMENTS *Vasiliki Syngouna, Patras - Greece*

4th International Congress of the

EUROSOIL 2012

3 TUESDAY JULY

Bari, detail of the cathedral of Saint Sabin. Archive photo FOTOGRAMMA - Bari

TUESDAY 3 JULY 2012 - ROOM ACERO - Pavilion 10

ORAL SESSIONS

BLOCK I 08.30-10.00	**S03.01c** **SOIL DEGRADATION** *Chair Persons:* Rainer Horn, Kiel - Germany Marcello Pagliai, Firenze - Italy	BLOCK III 13.30-15.00	**S12.07b** **POTENTIALLY HARMFUL ELEMENTS IN SOILS** *Chair Persons:* Manuela Abreu M., Lisbon - Portugal Carmen Perez-Sirvent, Murcia - Spain
	S03.01c -1 ASSESSING SOIL COMPACTION RISK USING A BAYESIAN BELIEF NETWORK *Mads Troldborg, Aberdeen - United Kingdom - Invited*		S12.07b -1 POTENTIALLY HARMFUL ELEMENTS IN THE FOOD CHAIN: TRANSLOCATION FROM SOIL TO PLANTS AND FOODSTUFF *Silvia Fontana, Venice - Italy*
	S03.01c -2 MODEL-BASED ASSESSMENT OF EROSION RISKS ON MAN-MADE SLOPES IN RECULTIVATION AREAS *Franziska Kunth, Freiberg - Germany*		S12.07b -2 TRACE METAL CONTENTS OF CROATIAN SOILS: REGIONAL DIFFERENCES AND EFFECT OF *Marija Romic, Zagreb - Croatia*
	S03.01c -3 SLUMPING OF SANDY SOILS UNDER SIMULATED RAINFALL: HOW DOES WATER AFFECT THIS SELF-COMPACTED SOIL DEGRADATION *Hongtao Hao, Rennes - France*		S12.07b -3 TRACE ELEMENT TOTAL CONTENT AND BEHAVIOR IN FOREST SOIL OF SOUTHERN QUÉBEC, CANADA *Masse Jacynthe, Vancouver - Canada*
	S03.01c -4 INVESTIGATING THE OCCURRENCE AND CONSEQUENCES OF SOIL WATER REPELLENCY IN NEW ZEALAND *Karin Müller, Hamilton - New Zealand*		S12.07b -4 TIME SERIES OF HEAVY METAL AND RARE EARTH ELEMENT ACCUMULATION IN TOP SOIL OF A LONG-TIME P FERTILIZATION EXPERIMENT *Geerd Smidt, Bremen - Germany*
	S03.01c -5 ASSESSMENT OF TOPSOIL STRUCTURE DEGRADATION IN A COMPOST-AMENDED SILTY CLAY LOAM SOIL UNDER SIMULATED RAINFALL *Sergio Pellegrini, Firenze - Italy*		S12.07b -5 ASSESSING THE EFFECTS OF INCREASING SOIL ANTIMONY CONCENTRATIONS ON PLANT GROWTH: AN OVERVIEW *Mertens Jelle, Brussels - Belgium*
	S03.01c -6 EVALUATION OF SOIL EROSION TRENDS TO ASSESS THE SUSTAINABILITY ASSOCIATED TO CROP MANAGEMENT PRACTICES IN SPAIN *Garcia Moreno Rosario, Madrid - Spain*		S12.07b -6 ASSESSING EXPOSURE TO CADMIUM IN A METAL RECYCLING COMMUNITY IN VIETNAM *Rupert Hough, Aberdeen - United Kingdom*
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*	*15.00-15.30*	*COFFEE BREAK - Bar Pavilion 9*
BLOCK II 10.30-12.00	**S12.07a** **POTENTIALLY HARMFUL ELEMENTS IN SOILS** *Chair Persons:* Jaume Bech, Barcelona - Spain Claudio Bini, Venezia - Italy	BLOCK IV 15.30-17.00	**S12.07c** **POTENTIALLY HARMFUL ELEMENTS IN SOILS** *Chair Persons:* Jaume Bech, Barcelona - Spain Dominik Weiss, London - United Kingdom
	S12.07a -1 RISK ASSESSMENT OF ARBUTUS UNEDO FRUITS FROM PLANTS GROWING ON CONTAMINATED MINE SOILS FROM PANASQUEIRA, PORTUGAL *Maria Manuela Abreu, Lisboa - Portugal*		S12.07c -1 THE GEOCHEMICAL BASELINE MAPPING OF A STRONGLY URBANIZED AREA IN SOUTHERN ITALY: THE ACERRA-MARIGLIANO-POMIGLIANO CONURBATION *Benedetto De Vivo, Napoli - Italy*
	S12.07a -2 ANTIMONY (SB) IN MINING IMPACTED PADDY SOIL: MOBILITY AND SOLUBILITY IN SOIL AND UPTAKE IN RICE *Gudny Okkenhaug, Oslo - Norway*		S12.07c -2 MECHANISMS OF REALIZATION OF POTENTIALLY DANGER OF MICROELEMENTS *Galina Motuzova , Moscow - Russian Federation*
	S12.07a -3 USE OF THE COMPUTER MINTEQ MODEL TO WATERS AFFECTED BY MINING ACTIVITIES: A PARTICULAR CASE IN SE SPAIN *Carmen Perez- Sirvent, Murcia - Spain*		S12.07c -3 ECODYNAMIC OF TRACE ELEMENTS IN A PHYTOMANAGED SOIL, CONTAMINATED WITH INCREASING COPPER CONCENTRATION LEVELS *Nour Hattab, Orleans - France*
	S12.07a -4 MODELLING BACKGROUND CONCENTRATIONS OF POTENTIALLY HARMFUL ELEMENTS FOR EVALUATION OF ANTHROPOGENIC CONTAMINATION: FOCUS ON CALCAREOUS SOILS IN THE SOUTH-WEST OF FRANCE *Paul-Olivier Redon, Castanet-Tolosan - France*		S12.07c -4 DETERMINISM OF THE SPATIAL DISTRIBUTION OF METALLIC TRACE ELEMENTS CONCENTRATIONS IN SOILS CONTAMINATED BY ATMOSPHERIC FALLOUTS: THE CASE OF THE SCLAIGNEAUX AREA (BELGIUM) *Amandine Liénard, Gembloux - Belgium*
	S12.07a -5 QUANTIFYING THE SPATIAL DISTRIBUTION OF HEAVY-METAL SOIL POLLUTION IN ELBASAN, ALBANIA, VIA PORTABLE X-RAY FLUORESCENCE *Ryan Perroy, La Crosse - United States*		S12.07c -5 TESTING OF INORGANIC AND ORGANIC AMENDMENTS FOR IN SITU STABILIZATION OF CD, CU & ZN IN A STRONGLY CONTAMINATED KASTANOZEM *Stephan Jung, Giessen - Germany*
	S12.07a -6 THE INFLUENCE OF COMPOST APPLICATION ON SOIL VULNERABILITY TO HEAVY METAL POLLUTION *Vasiliy Rosen, Rehovot - Israel*		S12.07c -6 THE INFLUENCE OF BIOGEOCHEMICAL AND PHYSICAL SOIL PROPERTIES ON THE NATURAL VARIABILITY OF SELECTED HEAVY METALS – A GEOCHEMICAL SOIL SURVEY OF CONTINENTAL EUROPE *Rannveig Anna Guicharnaud, Ispra - Italy*
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*		

TUESDAY 3 JULY 2012 - ROOM OLMO - Pavilion 10

ORAL SESSIONS

BLOCK I 08.30-10.00	**S10.01c** **PLANT SOIL INTERACTIONS FROM THE RHIZOSPHERE TO THE FIELD SCALE** *Chair Person:* Jan Vanderborght, Juelich - Germany	BLOCK III 13.30-15.00	**S05.01b** **SOIL ORGANIC MATTER AMENDMENTS: IMPACTS, BENEFITS, AND RISKS** *Chair Persons:* César Plaza, Madrid - Spain Claudio Zaccone, Foggia - Italy
	S10.01c -1 4-D IMAGING OF ROOT RESPONSES TO ABIOTIC STRESS USING X-RAY MICRO COMPUTED TOMOGRAPHY (CT) *Sacha Mooney, Nottingham - United Kingdom*		S05.01b -1 NITROGEN FERTILIZER REPLACEMENT VALUE OF HEAT-DRIED MUNICIPAL BIOSOLIDS *Dan M. Sullivan, Corvallis - United States*
	S10.01c -2 ASSESSMENT OF THE ROOT WATER UPTAKE PATTERN OF A PARTIAL DRIP IRRIGATED PEAR TREE *Pieter Janssens, Heverlee - Belgium*		S05.01b -2 RELATIONSHIPS BETWEEN GREEN WASTE COMPOST APPLICATION TO ARABLE SOILS AND NITROUS OXIDE EMISSIONS *Kirsty Watson, Bedford - United Kingdom*
	S10.01c -3 ROOT WATER UPTAKE IN HETEROGENEOUS MEDIA *Anna Kuhlmann, Hannover - Germany*		S05.01b -3 ANIMAL MANURE APPLICATION AND SOIL C STORAGE: A GLOBAL META-ANALYSIS *Denis Angers, Québec - Canada*
	S10.01c -4 ROOT EFFECTS ON SOIL HYDRAULIC PROPERTIES *Gernot Bodner, Vienna - Austria*		S05.01b -4 ORGANIC C BALANCE AND DYNAMIC OF MICROBIAL POPULATIONS IN A SOIL AMENDED WITH LIVESTOCK-DERIVED ORGANIC MATERIALS *Daniela Pezzolla, Perugia - Italy*
	S10.01c -5 NON-DESTRUCTIVE IMAGING OF CROP ROOT GROWTH IN RHIZOTRONS USING ELECTRICAL IMPEDANCE TOMOGRAPHY *Johannes Pfeifer, Jülich - Germany*		S05.01b -5 MICROBIAL EXTRACELLULAR POLYMERIC SUBSTANCES (EPS) IN SOIL *Marc Redmile-Gordon, London - United Kingdom*
	S10.01c -6 WATER UPTAKE PATTERNS AND RECONSTRUCTION OF ROOT SYSTEM ARCHITECTURES FROM MRI IMAGES *Andreas Pohlmeier, Jülich - Germany*		S05.01b -6 BIOCHAR : A HUMIC PRECURSOR *Michael H.B. Hayes, Limerick - Ireland*
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*	*15.00-15.30*	*COFFEE BREAK - Bar Pavilion 9*
BLOCK II 10.30-12.00	**S05.01a** **SOIL ORGANIC MATTER AMENDMENTS: IMPACTS, BENEFITS, AND RISKS** *Chair Persons:* Claudio Ciavatta, Bologna - Italy César Plaza, Madrid - Spain	BLOCK IV 15.30-17.00	**S05.01c** **SOIL ORGANIC MATTER AMENDMENTS: IMPACTS, BENEFITS, AND RISKS** *Chair Persons:* Claudio Zaccone, Foggia - Italy Claudio Ciavatta, Bologna - Italy
	S05.01a -1 DIGESTATES FROM BIOGASPRODUCTION: CHEMICAL COMPOSITION AND EFFECTS ON PRIMING IN SOILS *Doreen Zirkler, Berlin - Germany*		S05.01c -1 GREEN MANURE AND BIOWASTE COMPOST IMPACTS ON SOIL QUALITY UNDER ORGANIC POTATO PRODUCTION IN NOVA SCOTIA, CANADA *Mehdi Sharifi, Truro - Canada*
	S05.01a -2 IMPACT OF ANAEROBIC DIGESTATES ON SOIL PHYSICAL QUALITY BY MEANS OF MICROSTRUCTURAL SHEAR STRENGTH *Doerthe Holthusen, Kiel - Germany*		S05.01c -2 IMPACT OF AMENDMENTS ON BIOLOGICAL FUNCTIONS OF A PAH CONTAMINATED SOILS TREATED BY CHEMICAL OXIDATION *Fabien Laurent , Vandoeuvres les Nancy - France*
	S05.01a -3 UNDERSTANDING PHOSPHORUS (P) DYNAMICS IN SOILS AMENDED WITH APPLICATION OF DIFFERENT ORGANIC AMENDMENTS USING THE DIFFUSIVE GRADIENTS IN THIN-FILMS (DGT) TECHNIQUE *David Kane, Cranfield - United Kingdom*		S05.01c -3 BIOCHAR APPLICATION IN TEMPERATE SOILS: LESSONS LEARNED FROM FIELD AND LAB *Sonja Schimmelpfennig, Giessen - Germany*
	S05.01a -4 ENVIRONMENTAL IMPACT OF USING ORGANIC FERTILIZERS ON PERENNIAL BIOMASS CROPS *Athyna Cambouris, Quebec - Canada*		S05.01c -4 HOW BIOCHAR CONTRIBUTES TO INCREASE AGRICULTURAL YIELDS? A STUDY ABOUT THE LINK BETWEEN BIOCHAR AND ETHYLENE *Irene Criscuoli, San Michele all'Adige (TN) - Italy*
	S05.01a -5 LONG TERM EFFECT OF COMPOST AMENDEMENT IN COMMERCIAL PEACH ORCHARD: EFFECT ON SOIL FERTILITY AND TREE, NUTRITIONAL STATUS *Elena Baldi, Bologna - Italy*		S05.01c -5 BIOCHAR CARBON SEQUESTRATION: THE EFFECTS OF FEEDSTOCK AND TEMPERATURE OF PYROLYSIS ON CHEMICAL AND PHYSICAL STABILITY *Meghana Rao, Portland - United States*
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*		S05.01c -6 BIOCHAR – A POSSIBLE SOURCE OF ORGANIC POLLUTANTS? *Katja Wiedner, Halle - Germany*
			S05.01c -7 USING A MULIVARIATE APPROACH TO DERIVE A GENERALISED UNDERSTANDING TO PREDICT THE FUNCTIONS OF BIOCHAR IN SOIL *Saran Sohi, Edinburgh - United Kingdom*

SPECIAL EVENTS

18.30-20.00	**TM01** **THE WAY AHEAD FOR LAND MANAGEMENT AND SOIL CONSERVATION: THE DEVELOPMENT OF SOIL-DRIVEN WEB DECISION SUPPORT SYSTEMS** *Chair Persons:* Fabio Terribile, Napoli - Italy; Carlo De Michele, Napoli - Italy

TUESDAY 3 JULY 2012 - ROOM LECCIO - Pavilion 10

ORAL SESSIONS

BLOCK I 08.30-10.00	**S06.04** **LYSIMETER RESEARCH AND CLIMATE CHANGE** *Chair Person:* Peter Cepuder, Vienna - Austria	BLOCK III 13.30-15.00	**S03.02b** **SOIL EROSION AND DEGRADATION ON AGRICULTURE LAND** *Chair Persons:* Vincenzo Bagarello, Palermo - Italy João Pedro Nunes, Aveiro - Portugal
	S06.04 -1 LYSIMETERNETWORKS: DATAMANAGEMENT, QUALITY CONTROL AND MAINTENANCE *Georg Unold Von, Munich - Germany*		S03.02b -1 EXTREME WATER EROSION EVENTS IN LOW RELIEF LANDSCAPES – THE ROLE OF STRUCTURES CAUSED BY HISTORICAL LAND USE *Detlef Deumlich, Muencheberg - Germany*
	S06.04 -2 TERENO – SOILCAN A LYSIMETER-NETWORK IN GERMANY TO STUDY THE EFFECT OF LAND USE AND CLIMATE CHANGE *Thomas Pütz, Jülich - Germany*		S03.02b -2 QUANTIFYING AND MODELLING THE IMPACT OF LAND CONSOLIDATION AND ASSOCIATED FIELD BORDERS ON SOIL REDISTRIBUTION IN AGRICULTURAL LANDSCAPES (1954 – 2009) *Caroline Chartin, Tours - France*
	S06.04 -3 LYSIMETER INVESTIGATIONS TO EVALUATE DROUGHT EFFECTS ON THE GROWTH REACTION OF TREES *Jürgen Müller, Eberswalde - Germany*		S03.02b -3 EVALUATION OF SEDIMENT TRAPPING EFFICIENCIES OF VEGETATIVE EROSION CONTROL STRUCTURES *Koen Verbist, Ghent - Belgium*
	S06.04 -4 IMPACT OF CLIMATE CHANGE SCENARIOS ON CROP YIELD, SOIL WATER AND NITROGEN BALANCE AT THE LYSIMETER SITE WAGNA, AUSTRIA *Gernot Klammler, Graz - Austria*		S03.02b -4 MODELLING THE INFLUENCE OF BIOLOGICAL CRUST ON SOIL EROSION AT THE PLOT SCALE *Olivier Cerdan, Orléans - France*
	S06.04 -5 CONSEQUENCES OF CLIMATE CHANGE ON ECOSYSTEM FUNCTIONS, WATER BALANCE, PRODUCTIVITY AND BIODIVERSITY OF AGRICULTURAL SOILS IN THE PANNONIAN AREA *Andreas Baumgarten, Vienna - Austria*		S03.02b -5 RELATIONSHIPS AMONG RUNOFF, LOSSES OF SOIL AND NUTRIENT WITH RAINFALL CHARACTERISTICS AND SOIL MANAGEMENT PRACTICES IN A HILLY VINEYARD (PIEDMONT, NW ITALY) *Francesca Opsi, Turin - Italy*
	S06.04 -6 DO 59 YEARS OF HYDROLOGICAL AND HYDROCHEMICAL OBSERVATIONS ON THE 4 MEGALYSIMETERS NEAR CASTRICUM (NETHERLANDS) REVEAL EFFECTS OF CLIMATE CHANGE? *Pieter Jan Stuyfzand, Nieuwegein - Netherlands*		S03.02b -6 A COMPARISON OF SPLASH EROSION BEHAVIOURS BETWEEN WETTABLE AND WATER REPELLENT SOILS *Sujung Ahn, Swansea - United Kingdom*
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*	*15.00-15.30*	*COFFEE BREAK - Bar Pavilion 9*
BLOCK II 10.30-12.00	**S03.02a** **SOIL EROSION AND DEGRADATION ON AGRICULTURE LAND** *Chair Persons:* Artemi Cerdà, Valencia - Spain Luca Salvati, Roma- Italy	BLOCK IV 15.30-17.00	**S03.02c** **SOIL EROSION AND DEGRADATION ON AGRICULTURE LAND** *Chair Persons:* Eric L.H. Cammeraat, Amsterdam - Netherlands Vito Ferro, Palermo - Italy
	S03.02a -1 DUST EMISSIONS FROM ARABLE LAND: RELEASING PROCESSES, SOIL DEGRADING EFFECTS AND CONTROLLING FACTORS *Roger Funk, Müncheberg - Germany*		S03.02c -1 GLOBAL AND EUROPEAN POLICIES FOR PROTECTING OUR AGRICULTURAL LAND FROM EROSION AND DEGRADATION *Luca Montanarella, Ispra - Italy*
	S03.02a -2 “FALLOW BAND SYSTEM” FOR WIND EROSION CONTROL AND IMPROVEMENT OF SOIL FERTILITY IN THE SAHEL, WEST AFRICA *Kenta Ikazaki, Tokyo - Japan*		S03.02c -2 DOES AGRICULTURAL INTENSIFICATION CAUSE TERRACE DEGRADATION? *Sarah Schönbrodt, Tübingen - Germany*
	S03.02a -3 SOIL EROSION RATES BY WIND-DRIVEN RAIN ON SOILS WITH DIFFERENT SOIL CONDITIONS AND SLOPE ANGLE *Wolfgang Fister, Basel - Switzerland*		S03.02c -3 DESERTIFICATION, THE ROLE OF INTENSIVE AGRICULTURE *Gil Eshel, Emek Hefer - Israel*
	S03.02a -4 TEMPORAL EVOLUTION OF SOIL ERODIBILITY: ASSESSMENT OF EXPLANATORY FACTORS, AND CONSEQUENCES ON EROSION MODELLING. AN EXAMPLE FROM THE BEAUCE AREA, FRANCE *Baptiste Algayer, Orléans - France*		S03.02c -4 EFFECTS OF ORGANIC FARMING ON SOIL STRUCTURE AND CROP YIELD UNDER PEA (PISUM SATIVUM) *Maria Isabel Garcia Meca, Vienna - Austria*
	S03.02a -5 RUNOFF AND SOIL EROSION SOURCES AND PROCESSES IN A SMALL MOUNTAIN AGROFORESTRY CATCHMENT, CENTRAL PORTUGAL *João Pedro Nunes, Aveiro - Portugal*		S03.02c -5 CONTROL OF SOIL EROSION BY MEANS OF SOD SEEDING IN A MEDITERRANEAN ENVIRONMENT *Giovanni Scalici, Catania - Italy*
	S03.02a -6 EFFECT OF SOIL MANAGEMENT ON SOIL EROSION AND PHOSPHORUS LOSSES *Attila Nemes, College Park - United States*		S03.02c -6 SOIL EROSION FROM AGRICULTURAL LAND IN THE POLEG CATCHMENT: SOURCES, RATES, MEASUREMENTS AND FUTURE SOLUTIONS *Roey Egozi, Emek Hefer - Israel*
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*		S03.02c -7 CONNECTING THE CYCLES: IMPACT OF SEDIMENT, CARBON AND NUTRIENT EROSION ON GHG EMISSIONS *Nikolaus J. Kuhn, Basel - Switzerland*

SPECIAL EVENTS

18.30-20.00	**BM04** **JOINT MEETING OF THE CROPLANDS RESEARCH GROUP AND C-N CROSSCUTTING TEAM OF THE GLOBAL RESEARCH ALLIANCE (GRA)** *Chair Persons:* Steven Shafer, Beltsville - United States Jean-Francois Soussana, Paris - France Sylvie Recous, Reims - France Alan Franzluebbers, Beltsville - United States

TUESDAY 3 JULY 2012 - ROOM BIANCOSPINO - Pavilion 10

ORAL SESSIONS

BLOCK I 08.30-10.00	**S10.03a** **INFLUENCES OF TREE SPECIES ON FOREST SOILS** *Chair Person:* Cindy Prescott, Vancouver - Canada	BLOCK III 13.30-15.00	**S10.03c** **INFLUENCES OF TREE SPECIES ON FOREST SOILS** *Chair Person:* Sue Grayston, Vancouver - Canada
	S10.03a -1 INFLUENCE OF TREE SPECIES ON SOIL IN THE BOREAL FOREST: BEYOND THE DIRECT LITTER EFFECT *David Paré, Québec - Canada*		S10.03c -1 THE EFFECT OF DOMINANT TREE SPECIES ON SOIL MICROBIAL COMMUNITY, SOIL FAUNA AND CARBON STORAGE *Jan Frouz, Prague - Czech Republic*
	S10.03a -2 C AND N IN ABOVE- AND BELOWGROUND LITTER IN STANDS OF DIFFERENT TREE SPECIES IN NORTHERN FINLAND *Heljä-Sisko Helmisaari, Helsinki - Finland*		S10.03c -2 STRUCTURE OF THE ACTIVE MICROBIAL COMMUNITY IN CONTRASTING FOREST SOILS *Pascal Boeckx, Ghent - Belgium*
	S10.03a -3 DYNAMICS OF SOIL CARBON, NITROGEN AND MICROBIAL BIOMASS DURING 20 YEARS OF SUCCESSION TOWARDS DECIDUOUS OR CONIFER CANOPY IN SUB BOREAL PLANTATIONS *Alison Munson, Québec - Canada*		S10.03c -3 EFFECTS OF CHANGES IN TREE SPECIES, LAND-USE CHANGE, AND CLIMATE CHANGE ON FOREST NITROGEN RETENTION AND LOSS *Pamela Templer, Boston - United States*
	S10.03a -4 DIFFERENCES IN SOIL CARBON POOLS AND FLUXES IN ADJACENT STANDS OF SCOTS PINE, NORWAY SPRUCE AND SILVER BIRCH IN SW SWEDEN *Karna Hansson, Uppsala - Sweden*		S10.03c -4 TREE SPECIES EFFECTS ON THE MYCORRHIZAL CO2 FLUX *Oleg Menyailo, Krasnoyarsk - Russian Federation*
	S10.03a -5 TREE SPECIES COMPOSITION CONTROLS SOIL C DYNAMICS IN MEDITERRANEAN MOUNTAINS FROM CENTRAL SPAIN *Eugenio Díaz-Pinés, Garmisch-Partenkirchen - Germany*		S10.03c -5 RELATIONSHIPS BETWEEN TREE SPECIES AND CURRENT PEDOGENETIC PROCESSES *Arnaud Legout, Champenoux - France*
	S10.03a -6 NUTRIENT FLUXES AND SOIL MICROBIAL PROCESSES UNDER TREE SPECIES AFTER CONVERSION FROM NORWAY SPRUCE *Monique Carnol, Liège - Belgium*		S10.03c -6 MICROBIAL COMMUNITIES IN ASPEN- AND SPRUCE FOREST FLOORS OF THE BOREAL MIXEDWOOD *Sylvie Quideau, Edmonton - Canada*
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*	*15.00-15.30*	*COFFEE BREAK - Bar Pavilion 9*
BLOCK II 10.30-12.00	**S10.03b** **INFLUENCES OF TREE SPECIES ON FOREST SOILS** *Chair Person:* Lars Vesterdal, Copenhagen - Denmark	BLOCK IV 15.30-17.00	**S13.02** **SOIL STATUS AND SOCIETY** *Chair Persons:* William Towers, Aberdeen - United Kingdom Ingrid Hartmann, Berlino - Germany
	S10.03b -1 EVALUATION OF TREE SPECIES EFFECTS ON CARBON STABILIZATION AND MICROBIAL ACTIVITY IN MINERAL FOREST SOILS *Antia Villada, Reading - United Kingdom*		S13.02 -1 SOILS FOR SUSTAINABLE DEVELOPMENT *Lorenz Klaus, Potsdam - Germany*
	S10.03b -2 HUMUS HORIZONS AND HUMUS FRACTIONS IN SOILS DEVELOPED UNDER SPRUCE MONOCULTURE AND BEECH FOREST – CASE STUDY FROM THE LOWER MONTANE BELT IN THE TATRA MOUNTAINS (POLAND) *Katarzyna Wasak, Cracow - Poland*		S13.02 -2 SOIL, PARTNER IN SUSTAINABLE DEVELOPMENT: IMPORTANCE OF AN ACTIVE SCIENCE POLICY INTERFACE *Sandra Boekhold, The Hague - Netherlands*
	S10.03b -3 LEAF LITTER LEACHATE FLUXES UNDER SIX DIFFERENT TREE SPECIES ON A METAL CONTAMINATED SITE *Lotte Van Nevel, Ghent - Belgium*		S13.02 -3 LAND-USERS EDUCATION IN SOIL AND SOIL QUALITY FOR SUSTAINABLE FARMING IN A COMMUNITY-BASED PARTICIPATORY RESEARCH PROJECT IN ORDUÑA (BASQUE COUNTRY, SPAIN) *Maria José Imaz, Pamplona - Spain*
	S10.03b -4 TREE SPECIES TRAITS CAUSE DIVERGENCE IN SOIL ACIDIFICATION DURING FOUR DECADES OF POST-AGRICULTURAL FOREST DEVELOPMENT *De Schrijver An, Gontrode - Belgium*		S13.02 -4 RAISING AWARENESS: SOIL SCIENCE'S GREATEST CHALLANGE? *Arwyn Jones, Ispra - Italy*
	S10.03b -5 CHANGES OF SOIL CHEMISTRY, WATER AND NUTRIENT FLUXES IN GERMAN FORESTS AFTER REPLACEMENT OF NORWAY SPRUCE WITH DOUGLAS FIR COMPARED TO EUROPEAN BEECH *Jörg Prietzel, Freising-Weihenstephan - Germany*		S13.02 -5 SOILS AND SOCIETY: FRAMEWORKS AND APPROACHES – A STOCKTAKING EXERCISE *Ingrid Hartmann, Berlin - Germany*
	S10.03b -6 DETERMINATION OF PLANT-AVAILABLE PHOSPHORUS FORMS IN SOIL UNDER CONSIDERATION OF THE INFLUENCE OF DIFFERENT TREE SPECIES *Jörg Niederberger, Freiburg - Germany*		S13.02 -6 EXPLORING THE SUCCESS FACTORS OF BROWNFIELD REGENERATION: A COMPARATIVE ANALYSES OF FOUR EUROPEAN COUNTRIES (GERMANY, CZECH REPUBLIC, POLAND AND ROMANIA) *Petr Klusácek, Brno - Czech Republic*
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*		

SPECIAL EVENTS

18.30-20.00	**BM03** **EUROPEAN SOIL BUREAU NETWORK (ESBN)** *Chair Persons:* Luca Montanarella, Ispra - Italy Arwin Jones, Ispra - Italy

TUESDAY 3 JULY 2012 - ROOM ALLORO - Pavilion 10

ORAL SESSIONS

	S08.01a **HYDROPEDOLOGY, INCLUDING APPLICATIONS IN A KARST ENVIRONMENT** *Chair Persons:* Johan Bouma, Wageningen - Netherland Angelo Basile, Ercolano - Italy		**S02.04** **SOIL CLASSIFICATION: USING WRB FOR PROVIDING SOIL INFORMATION AND MAKING HARMONIZED MAPS ON A EUROPEAN LEVEL** *Chair Persons:* Seppe Deckers, Leuven - Belgium Peter Schad, München - Germany
	S08.01a -1 INTRODUCING MORE PEDOLOGY IN HYDROLOGY IS BENEFICIAL FOR BOTH *Johan Bouma, Wageningen - Netherlands*		S02.04 -1 MAKING SOIL MAPS WITH WRB: THE GUIDELINES (2010) *Peter Schad, Freising - Germany*
	S08.01a -2 CONTROLS OF SITE FACTORS AND SOIL PROPERTIES ON PREFERENTIAL WATER FLOW AND SOLUTE TRANSPORT *Nicholas Jarvis, Uppsala - Sweden*		S02.04 -2 CONVERTING THE LEGEND OF THE SOIL MAP OF BELGIUM INTO THE WORLD REFERENCE BASE FOR SOIL RESOURCES: (II) STRENGTH AND CONSTRAINTS OF USING WRB AS A MAP LEGEND *Stefaan Dondeyne, Leuven - Belgium*
BLOCK I 08.30-10.00	S08.01a -3 HYDROPEDOLOGICAL IMPORTANCE OF DIAGNOSTIC HORIZONS: AN INSIGHT THROUGH SIMULATION MODELLING *Fabio Terribile, Portici (NA) - Italy*	BLOCK III 13.30-15.00	S02.04 -3 USING WRB TO MAP THE SOIL SYSTEMS OF ITALY *Edoardo Costantini, Firenze - Italy*
	S08.01a -4 RESPONSE OF SATURATED HYDRAULIC CONDUCTIVITY (KS) ON WATER TABLE ELEVATION IN A BOREAL ACID SULFATE SOIL *Seija Virtanen, Helsinki - Finland*		S02.04 -4 SOIL CLASSIFICATION AS A TOOL TO PRODUCE USER-FRIENDLY THEMATIC SOIL MAPS IN NORWAY *Aage Nyborg,- Norway*
	S08.01a -5 PREFERENTIAL FLOW PATHS FORMATION AND INFLUENCE ON SOLUTE TRANSPORT IN AGRICULTURAL SOILS DEVELOPED ON GLACIAL TILL CLAYS *Kirill Gerke, Moscow - Russian Federation*		S02.04 -5 WEAK POSITION OF SOIL TROPHIC STATUS IN WRB MAKE DIFFICULT A CLASSIFICATION AND CARTOGRAPHY OF CAMBISOLS *Cezary Kabala, Wroclaw - Poland*
	S08.01a -6 INTERACTION BETWEEN SOIL WATER REPELLENCE AND VADOSE ZONE HYDROLOGY *Coen J. Ritsema, Wageningen - Netherlands*		S02.04 -6 IRISH SOIL INFORMATION SYSTEM – VALIDATION OF DIGITAL SOIL MAPPING USING TRADITIONAL SOIL SURVEY *Brian J Reidy, Wexford - Ireland*
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*	*15.00-15.30*	*COFFEE BREAK - Bar Pavilion 9*
	S08.01b **HYDROPEDOLOGY, INCLUDING APPLICATIONS IN A KARST ENVIRONMENT** *Chair Persons:* Johan Bouma, Wageningen - Netherland Angelo Basile, Ercolano - Italy		**W11.01** **THROUGH EYE OF THE NEEDLE: THE SOIL MICROBIAL BIOMASS CONCEPT FROM NUTRIENT CYCLING TO GLOBAL WARMING - Dedicated to the memory of Professor David Jenkinson** *Chair Persons:* Maria de Nobili, Udine - Italy Phil Brookes, Rothamsted - United Kingdom Emmanuel Frossard, Zurich - Switzerland
	S08.01b -1 ESTIMATION OF SOIL HYDRAULIC PROPERTIES EVOLUTION IN AN E&BT HORIZON *Anatja Samouelian, Montpellier - France*		W11.01 -1 DAVID JENKINSON AND THE SOIL MICROBIAL BIOMASS *Philip Brookes, Harpenden - United Kingdom*
	S08.01b -2 CHARACTERISATION AND CLASSIFICATION OF HYDROLOGICAL SOILSCAPES OF SOUTH AFRICA *Pieter Le Roux, Bloemfontein - South Africa*		W11.01 -2 SOIL PROTEOMICS: A TOOL FOR LOOKING TRHOUGH THE EYE OF THE NEEDLE IN THE HAYSTACK? *Giancarlo Renella, Florence - Italy*
BLOCK II 10.30-12.00	S08.01b -3 SOIL-LANDSCAPES AND RISKS OF NUTRIENT LOSS TO WATER IN SIX IRISH AGRICULTURAL CATCHMENTS *Paul Murphy, Wexford - Ireland*	BLOCK IV 15.30-17.00	W11.01 -3 MICROBIAL BIOMASS AND GREENHOUSE GAS EMISSION IN TROPICAL PEAT SOIL *Kazuyuki Inubushi, Matsudo - Japan*
	S08.01b -4 HYDROLOGICAL PROPERTIES OF FOREST SOILS IN KARST ENVIRONMENTS: PEDOTRANSFER FUNCTIONS FOR FOLIC HISTOSOLS, RENDZIC LEPTOSOLS AND CHROMIC CAMBISOLS *Christina M. Delaney, Vienna - Austria*		W11.01 -4 MICROBIAL CONTROL ON STABILITY OF SOIL ORGANIC MATTER UNDER DROUGHT *Evgenia Blagodatskaya, Pushchino - Russian Federation*
	S08.01b -5 TERRAE ROSSAE, RENZINAS AND SINKHOLE PEDOSEDIMENTS IN THE CONTEXT OF KARSTIC LANDSCAPE DEVELOPMENT AN MAYA LANDUSE IN YUCATÁN (MEXICO) *Elizabeth Solleiro-Rebolledo, Mexico City - Mexico*		W11.01 -5 MINERALIZATION-IMMOBILIZATION OF SULFUR IN A SOIL DURING DECOMPOSITION OF CROP RESIDUES VARYING BY THEIR BIOCHEMICAL QUALITY AND S CONTENT *Sylvie Recous, Reims - France*
	S08.01b -6 GREEN WATER CREDITS: A PROMISING CONCEPT FOR HYDROPEDOLOGY *Godert Van Lynden, Wageningen - Netherlands*		W11.01 -6 PHOSPHORUS, CARBON AND NITROGEN INTERACTIONS IN TROPICAL GRASSLANDS ON HIGHLY WEATHERED SOILS *Astrid Oberson, Lindau - Switzerland*
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*		W11.01 -7 C:N:P STOICHIOMETRY OF THE SOIL MICROBIAL BIOMASS IN A GRAZED GRASSLAND SITE UNDER EXPERIMENTAL P LIMITATION OR EXCESS *Bryan Griffiths, Wexford - Ireland*

SPECIAL EVENTS

18.30-20.00	**R01** **CURRENT STATE OF KNOWLEDGE AND POTENTIAL FOR FUTURE EXPERIMENTS TO HELP ADVANCE OUR UNDERSTANDING AND MODEL REPRESENTATION OF SOIL ORGANIC CARBON STABILIZATION PROCESSES AND DYNAMICS** *Chair Persons:* Thomas Wutzler, Jena - Germany Myroslava Khomik, Jena - Germany Marion Schrumpf, Jena - Germany

TUESDAY 3 JULY 2012 - ROOM MIRTO - Pavilion 10

ORAL SESSIONS

BLOCK I 08.30-10.00	**S07.02** **INNOVATION AND SOIL SCIENCE - APPLICATION OF ADVANCED NMR AND MRI TECHNIQUES FOR IMPROVING OUR UNDERSTANDING OF SOIL ORGANIC MATTER FORMATION AND ITS INTERACTION WITH THE MINERAL PHASE** *Chair Persons:* *Anne Berns, Jülich - Germany* *Heike Knicker, Sevilla - Spain*	BLOCK III 13.30-15.00	**W06.01a** **FOREST BIOENERGY AND SOIL SUSTAINABILITY** *Chair Person:* *Heljä-Sisko Helmisaari, Helsinki - Finland*
	S07.02 -1 SORPTION SELECTIVITY OF NEUTRAL ORGANIC COMPOUNDS BY SOIL ORGANIC MATTER PROBED WITH NITROXYL PARAMAGNETIC NMR RELAXATION PROBES *Joseph Pignatello, New Haven, Connecticut - United States*		W06.01a -1 PRESENTATION OF OECD CO-OPERATIVE RESEARCH PROGRAMME *Leena Finér, Joensuu - Finland*
	S07.02 -2 ONE AND TWO DIMENSIONAL SOLID STATE NMR TECHNIQUES APPLIED TO STUDY THE STRUCTURE AND RIGIDITY OF SOIL ORGANIC MATTER (SOM) *Alexander Jäger, Leipzig - Germany*		W06.01a -2 ECONOMIC AND TECHNOLOGICAL POTENTIAL OF FOREST BIOENERGY, AND THE CONDITIONS FOR DEVELOPMENT *Rolf Bjorheden, - Invited*
	S07.02 -3 NEW NMR APPROACHES FOR UNRAVELLING COMPOSITION AND TURNOVER OF SOIL COMPONENTS *Jürgen Schleucher, Umea - Sweden*		W06.01a -3 APPROACHES TO SOIL SUSTAINABILITY IN GUIDELINES FOR FOREST FUEL HARVESTING AND PRODUCTION IN FOREST AND PLANTATIONS *Inge Stupak, Copenhagen - Denmark*
	S07.02 -4 COMPREHENSIVE MULTIPHASE NMR: A POWERFUL NEW APPROACH FOR UNDERSTANDING CONTAMINANT SORPTION AND SEQUESTRATION IN WHOLE FULLY SWOLLEN SOILS *Denis Courtier-Murias, Toronto - Canada*		W06.01a -4 A REVIEW OF INTENSIVE HARVESTING GUIDELINES IN CANADA AND THE SCIENCE BEHIND THEM *Brian Titus, Victoria, BC - Canada*
	S07.02 -5 RELAXOMETRY PROPERTIES OF WATER SATURATED LIGNIN CHARS *Pellegrino Conte, Palermo - Italy*		W06.01a -5 DEVELOPMENT OF FOREST BIOENERGY GUIDELINES FOR SOIL AND WATER PROTECTION-EXPERETISE FROM UK *Tom Nisbet, Farnham - United Kingdom*
	S07.02 -6 MEASUREMENT AND QUANTIFICATION OF HETEROGENEITY, FLOW, AND MASS TRANSFER IN POROUS MEDIA USING NMR LOW-FIELD TECHIQUES *Eva Paciok, Aachen - Germany*		
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*	*15.00-15.30*	*COFFEE BREAK - Bar Pavilion 9*
BLOCK II 10.30-12.00	**S06.03** **SOIL FUNCTIONS IN A CHANGING CLIMATE - RECENT INSIGHTS FROM FIELD EXPERIMENTS** *Chair Persons:* Sven Marhan, Hohenheim - Germany Pascal Niklaus, Zurich - Switzerland Christian Poll, Hohenheim - Germany	BLOCK IV 15.30-17.00	**W06.01b** **FOREST BIOENERGY AND SOIL SUSTAINABILITY** *Chair Person:* Elena Vanguelova, Farnham - United Kingdom
	S06.03 -1 IMPACT OF CLIMATE CHANGE ON SOIL MICROORGANISMS AND CARBON CYCLING IN AN ARABLE ECOSYSTEM *Christian Poll, Stuttgart - Germany*		W06.01b -1 FOREST BIOMASS FOR ENERGY AND SUSTAINABLE MANAGEMENT OF FOREST SOILS – WHAT DO WE NEED TO KNOW TO KNOW? *Gustaf Egnell, Umeå - Sweden*
	S06.03 -2 NUTRIENT AVAILABILITY AND UPTAKE UNDER DROUGHT CONDITIONS IN OAK MODEL ECOSYSTEMS WITH TWO DIFFERENT FOREST SOILS *Thomas M. Kuster, Birmensdorf - Switzerland*		W06.01b -2 IMPACTS OF INCREASED BIOMASS USE ON SOIL SUSTAINABILITY IN AUSTRIA *Klaus Katzensteiner, Vienna - Austria*
	S06.03 -3 RESPONSE OF SOIL PROPERTIES TO A LONG TERM FACTORIAL SNOW AND N-FERTILIZATION EXPERIMENT, COLORADO FRONT RANGE, USA *Michele Freppaz, Grugliasco - Italy*		W06.01b -3 FOREST BIOENERGY AND SOIL SUSTAINABILITY IN THE UK *Elena Vanguelova, Farnham - United Kingdom*
	S06.03 -4 EFFECTS OF LONG-TERM TEMPERATURE AND NUTRIENT MANIPULATION ON NORWAY SPRUCE FINE ROOTS, MYCORRHIZAL ROOT TIPS AND MYCELIA PRODUCTION *Jaana Leppälammi-Kujansuu, Helsinki - Finland*		W06.01b -4 ASSESSING HARVESTING POTENTIAL AND NUTRIENT SUSTAINABILITY IN TEMPERATE FORESTS BASED ON MONITORING DATA *Klaus V.wilpert, Freiburg - Germany*
	S06.03 -5 IMPACTS OF EXTREME EVENTS ON CO2 SOIL EFFLUX IN GRASSLAND IN A CONTEXT OF FUTURE CLIMATE CHANGE *Angela Augusti, Porano (Tr) - Italy*		W06.01b -5 IMPACT OF SHORT- AND VERY SHORT-ROTATION COPPICES OF POPULUS AND SALIX SPECIES ON SOIL C, N AND P CYCLING *René Guénon, Reims - France*
	S06.03 -6 CARBON AND NITROGEN DECOUPLING UNDER AN 11-YEAR DROUGHT IN THE SHORTGRASS STEPPE: IMPLICATIONS FOR INCREASED NUTRIENT LOSS AND PROLONGED ECOSYSTEM RECOVERY *Sarah Evans, Fort Collins - United States*		W06.01b -6 LOGGING RESIDUE AND STUMP HARVESTING AND FOREST SOIL SUSTAINABILITY IN FINLAND *Heljä-Sisko Helmisaari, Helsinki - Finland*
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*		

SPECIAL EVENTS

18.30-20.00	**R04** **GUIDELINE DEVELOPMENT FOR FOREST BIOENERGY - Sponsored by OECD** *Chair Persons:* Heljä-Sisko Helmisaari, Helsinki - Finland Elena Vanguelova, Farnham - United Kingdom

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POSTER SESSIONS

17.00-18.30	**S05.01-P** **SOIL ORGANIC MATTER AMENDMENTS: IMPACTS, BENEFITS, AND RISKS**
	S05.01-P -1 ADSORPTION OF MICRONUTRIENTS BY TROPICAL PEAT FOR AGRICULTURAL APPLICATIONS *Rosa André Henrique, Sao Paolo - Brazil*
	S05.01-P -2 AGRONOMICAL VALORIZATION OF BIOSOLIDS FROM MUNICIPAL SEWAGE SLUDGE *Luigi Sciubba, Bologna - Italy*
	S05.01-P -3 AMELIORATIVE EFFECT OF COMPOST AND SULFUR IN THE PRESENCE OF DIFFERENT SOURCES OF PHOSPHORUS ON THE IMPROVEMENT OF GROWTH AND NUTRIENT UPTAKE OF LETTUCE *Hanan Siam, Cairo - Egypt*
	S05.01-P -4 AN EVALUATION OF POTENTIALLY MINERALIZABLE NITROGEN OF ALTERNATIVE ORGANIC AMENDMENTS DURING A LONG-TERM INCUBATION *Alexander Woodley, Guelph - Canada*
	S05.01-P -5 ANALYTICAL CHARACTERIZATION OF SEVERAL ALKALINE COMPOST EXTRACTS *Waed Tarraf, Valenzano - Italy*
	S05.01-P -6 ANTIOXIDANT CAPACITY AND RATE OF DECOMPOSITION OF ORGANIC AMENDMENTS IN A VERTISOL *David Rimmer, Newcastle - United Kingdom*
	S05.01-P -7 APPLICATION OF “TERRA PRETA MATERIAL” IN AGRICULTURE AND RECLAMATION ON POOR SANDY SOILS OF NORTHEASTERN GERMANY *Haubold-Rosar Michael, Finsterwalde - Germany*
	S05.01-P -8 APPLICATION OF COMPOST ON DEGRADED SOILS: EVALUATION OF SOIL-PLANT SYSTEM *Anna De Marco, Napoli - Italy*
	S05.01-P -9 APPLICATION OF DGT FOR A FASTER ASSESSMENT OF P PLANT AVAILABILITY FROM AGRICULTURAL WASTE DERIVED SOIL AMENDMENTS *Christel Wibke, Frederiksberg C - Denmark*
	S05.01-P -10 BENEFITS FROM COMPOST USE IN THE PREPARATION OF PLANT GROWING SUBSTRATES: INHIBITION OF THE PHYTOPATHOGEN FUSARIUM OXYSPORUM AND PLANT GROWTH STIMULATION *Elisabetta Loffredo, Bari - Italy*
	S05.01-P -11 BIOCHAR REDUCES NITROGEN LEACHING IN AN APPLE ORCHARD *Maurizio Ventura, Bolzano - Italy*
	S05.01-P -12 BIOMASS CARBONIZED BY DIFFERENT TECHNIQUES VARY WIDELY IN CARBON SEQUESTRATION POTENTIAL *Saadatullah Malghani, Jena - Germany*
	S05.01-P -13 BIOTIC RESPONSES MEDIATING CARBON SEQUESTRATION IN AGRICULTURAL SOIL UNDER FERTILISATION *Ee Ling Ng, Melbourne - Australia*
	S05.01-P -14 CARBON MINERALIZATION AND N2O EMISSIONS IN AMENDED SOIL AS AFFECTED BY TEMPERATURE, SOIL WATER CONTENT AND DOSE OF APPLICATION *Claudio Mondini, Gorizia - Italy*
	S05.01-P -15 CHANGES IN SOIL CHEMICAL PROPERTIES AFTER THE SECOND APPLICATION OF COMPOSTED SEWAGE SLUDGE *Attila Tomócsik, Nyíregyháza - Hungary*
	S05.01-P -16 COFFEE BYPRODUCTS UNTREATED AND COMPOSTED AS SOIL AMENDMENTS SUITABLE FOR ORGANIC PRODUCTION. *F.g. Ceglie, Valenzano (BA) - Italy*
	S05.01-P -17 COMPARISON OF DIFFERENT CHEMICAL AND BIOLOGICAL INDEXES TO EVALUATE COMPOST MATURITY *Donato Mondelli, Bari - Italy*
	S05.01-P -18 COMPOSTED BIOCHAR AND PURE COMPOST EFFECTS ON PLANT GROWTH FACTORS AS REPORTED FOR OAT (AVENA SATIVA L.) IN A GREENHOUSE TRIAL *Hardy Schulz, Halle/ Saale - Germany*
	S05.01-P -19 DETERMINATION OF NITROGEN MOVEMENT IN AGRICULTURAL SOILS WITH PIG SLURRY APPLICATION IN CENTRAL CHILE *Osvaldo Salazar, Santiago - Chile*
	S05.01-P -20 DIRECT CARACTERIZATION OF PEAT HUMIC SUBSTANCES BY POTENTIOMETRIC TITRATION *Bruno Szpoganicz, Florianopolis - Brazil*
	S05.01-P -21 DYNAMICS OF SOIL ORGANIC CARBON AND NUTRITIONALLY RELEVANT ELEMENTS WITH COMPOST APPLICATIONS ON ARABLE LAND *Heide Spiegel, Vienna - Austria*
	S05.01-P -22 EFFECT OF COMPOSTING ON PLANT RESIDUES MINERALISATION IN SOIL: A 13C/15N LABELLING APPROACH *Thomas Lerch, Paris - France*
	S05.01-P -23 EFFECT OF LIGNITE COAL-DERIVED AMENDMENTS ON GERMINATION AND VEGETATIVE GROWTH OF PASTURE SPECIES AND CARBON SEQUESTRATION IN ACIDIC SOILS *Karen Little, Clayton - Australia*
	S05.01-P -24 EFFECT OF PRIMARY TREATED SEWAGE SLUDGE ON CLAY SOIL FETILITY AND CROP PRODUCTIVITY IN MAIZE-MAIZE ROTATION SYISTEM IN CROATIA *Milan Poljak, Zagreb - Croatia*

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POSTER SESSIONS

	S05.01-P -25 EFFECT OF TREE VEGETATION AND WASTE AMENDMENT ON MINE SOILS ORGANIC CARBON CONTENT *Verónica Asensio, Vigo - Spain*
	S05.01-P -26 EFFECTS OF MUNICIPAL SOLID WASTE COMPOST ON STAMNAGATHI (CICHORIUM SPINOSUM) GROWTH IN CLAYEY AND IN SANDY SOILS *Androniki Papafilippaki, Chania - Greece*
	S05.01-P -27 EFFECTS OF ORGANIC WASTES ON SOIL MOISTURE CONSTANTS AND RELATIVE SATURATION OF A CLAY FIELD *Coskun Gülser, Samsun - Turkey*
	S05.01-P -28 ENRICHMENT OF SOME ORGANIC WASTES (RESIDUES) WITH MINERAL FERTILIZERS IN RELATION TO GROWTH, YIELD AND NUTRIENT UPTAKE OF LETTUCE GROWN ON A SANDY SOIL *Hanan Siam, Cairo - Egypt*
	S05.01-P -29 ENVIRONMENTAL EFFECTS OF DIGESTATE AND BENTONITE APPLICATION IN CASE OF SANDY SOILS *Marianna Makádi, Nyiregyháza - Hungary*
	S05.01-P -30 EVALUATION OF ALTERNATIVE ORGANIC AMENDMENTS ON CEREAL CROP PRODUCTION AND NITROGEN DYNAMICS IN THE SOIL *Alexander Woodley, Guelph - Canada*
	S05.01-P -31 EVALUATION OF PIG SLURRY ANION EXCHANGE MEMBRANE EXTRACTABLE PHOSPHORUS THROUGH DIFFERENT PROCEDURES *Marta Roboredo, Vila Real - Portugal*
	S05.01-P -32 FERTILIZING EFFECTS OF “TERRA PRETA MATERIALS” ON POOR SANDY SOILS OF NORTHEASTERN GERMANY – RESULTS OF POT EXPERIMENTS *Michael Haubold-Rosar, Finsterwalde - Germany*
	S05.01-P -33 FINGERPRINTING OF SOLUBLE ORGANIC MATTER IN IRON MINE TAILING AFTER SEWAGE SLUDGE-BASED RECLAMATION *Maria C. Hernandez-Soriano, Raleigh - United States*
	S05.01-P -34 GROWTH OF EUCALIPTUS GRANDIS AND TABEBUIA ROSEA BY THE USE OF ARACHIS PINTOI (LEGUMINOUS) AS MULCHING *Esperanza Huerta, Villahermosa - Mexico*
	S05.01-P -35 USE OF FOOD BY-PRODUCTS AND WHITE ROT FUNGI IN THE PRODUCTION OF BROWN COAL-BASED COMPOSTS *Lidia Sas Paszt, Skierniewice - Poland*
	S05.01-P -36 IMPACT OF SPATIAL DISTRIBUTION OF EXOGENEOUS ORGANIC MATTER ON ISOPROTURON FATE IN SOIL *Laure Vieublé Gonod, Thiverval Grignon - France*
17.00-18.30	S05.01-P -37 LABILE SOIL ORGANIC CARBON FRACTIONATION AND CHARACTERIZATION DURING TRANSITION TO ORGANIC FARMING *Hamada Abdelrahman, Bari - Italy*
	S05.01-P -38 LINKING SPATIAL DISTRIBUTION OF MANURE AMENDMENT WITH SOIL O2 DISTRIBUTION AND N2O, CH4, AND CO2 EMISSIONS *Kun Zhu, Copenhagen - Denmark*
	S05.01-P -39 LOW OXYGEN VERSUS ANAEROBIC COMPOSTING FOR THE TREATMENT OF SEPTIC TANK BIOSOLIDS IN RURAL AREAS OF VIET NAM *Marco Contin, Udine - Italy*
	S05.01-P -40 MULCHING WITH CHOPPED PINE RESIDUES IN SOIL RESTORATION PROJECTS: PROS AND CONS IN A MEDITERRANEAN SEMIARID EXPERIMENT *Albert Solé-Benet, Almeria - Spain*
	S05.01-P -41 N STABILIZATION IN SOIL AMENDED WITH 15N-LABELED PLANT RESIDUES *Claudio Marzadori, Bologna - Italy*
	S05.01-P -42 NATIVE AND INVASIVE PRAIRIE PLANTS DIFFER IN THEIR RESPONSE TO BIOCHAR *Kevin Gibson, West Lafayette - United States*
	S05.01-P -43 NITROGEN AND PHOSPHORUS USE EFFICIENCY FROM POULTRY MANURE APPLICATION TO FORAGE GRASSLAND *Karamat Sistani, Bowling Green - United States*
	S05.01-P -44 NITROGEN KINETICS AND MINERALISATION IN A COMPOST-SEWAGE EFFLUENT AMENDED SOIL *Grivin Chipula, Bedford - United Kingdom*
	S05.01-P -45 ORGANIC AMENDMENTS ENRICHED WITH SCRAPS OF POPLAR PRUNING: SLOW DEGRADATION BIOMASS TO IMPROVE SOIL ORGANIC MATTER CONTENT OVER TIME *Maria A. Rao, Portici - Italy*
	S05.01-P -46 ORGANIC CARBON ALLOCATION IN POOLS OF DIFFERENT STABILITY IN A MEDITERRANEAN AGRICULTURAL SOIL AFTER FOUR YEARS OF COMPOST AMENDMENTS *Paola Iovieno, Fisciano (SA) - Italy*
	S05.01-P -47 PHOSPHORUS AVAILABILITY IN BIOCHAR AMENDED SOILS *Mohammed Masud Parvage, Uppsala - Sweden*
	S05.01-P -48 PHYTOEXTRACTION OF CHROMIUM CONTAMINATED SOIL BY THREE BRASSICA SPECIES: EFFECTS OF MICROORGANISM AND COMPOST AS SOIL AMENDMENTS *Karam Farrag , Bari - Italy*

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POSTER SESSIONS

	S05.01-P -49 POTASSIUM HUMATES AND PLANT GROWTH – SEEKING UNDERSTANDING FOR OBSERVED EFFECTS *Antonio Patti, Clayton - Australia*
	S05.01-P -50 POTENTIAL USE OF RESIDUES FROM ANAEROBIC DIGESTION FOR BIOGAS PRODUCTION TO IMPROVE SOIL FERTILITY: AN HOLISTIC APPROACH *Alessandra Lagomarsino, Firenze - Italy*
	S05.01-P -51 PREDICTING THE PH BUFFERING CAPACITY OF COMPOST VIA TITRATION WITH DILUTE SULFURIC ACID *Dan M. Sullivan, Corvallis, Oregon - United States*
	S05.01-P -52 RE-INVENTING ANTHROSOLS: AN ANCIENT ANSWER FOR MODERN-DAY PROBLEMS CONCERNING CLIMATE CHANGE, SOIL DEGRADATION, NATURE CONSERVATION AND AGRICULTURAL YIELD DECLINE? *Karen Vancampenhout, Leuven - Belgium*
	S05.01-P -53 SOIL AMENDMENT WITH DIFFERENTLY TREATED PINE BARKS AND WOOD IN THE RESTORATION OF A MINE SITE *Patrizia Zaccheo, Milano - Italy*
	S05.01-P -54 SOIL AND PLANT RESPONSES IN THREE CONTRASTING SOILS AFTER AMENDMENT WITH ORANGE WASTE COMPOST AS BY A MESOCOSM EXPERIMENT *Antonio Gelsomino, Reggio Calabria - Italy*
	S05.01-P -55 SOLUTE TRANSFER FROM RUNOFF UNDER SIMULATED RAINFALL IN AN AMENDED IRON-MINE TAILING WITH SEWAGE SLUDGE COMPOST *Ana Sevilla Perea, Armilla - Spain*
	S05.01-P -56 STEROLS IN SOIL SOLUTION AS BIOMARKERS IN POULTRY MANURE AMENDED SOIL *Giovanni Gigliotti, Perugia - Italy*
	S05.01-P -57 THE EFFECT OF AGED BIOCHAR ON THE GROWTH OF NATIVE AND INVASIVE PRAIRIE PLANTS *Erica Gibson, West Lafayette - United States*
	S05.01-P -58 THE EFFECT OF ASPEN PULP SLUDGE MIXTURE WITH CLINKER DUST ON SOIL PROPERTIES *Helis Rossner, Tartu - Estonia*
	S05.01-P -59 THE EFFECTS OF BIOCHAR APPLICATION ON WATER RELATION AND SOIL QUALITY IN VITIS VINIFERA *Silvia Baronti, Florence - Italy*
	S05.01-P -60 THE EFFECTS OF DIFFERENT ORGANIC AMENDMENTS ON THE EVOLUTION OF SOIL STRUCTURE AND FERTILITY *Manolis Kotronakis, Chania - Greece*
17.00-18.30	S05.01-P -61 IMPACT OF MUNICIPAL COMPOST ON MINERAL PHOSPHORUS FRACTIONS IN SOME CALCAREOUS SOILS *Alireza Hosseinpur, Shahrekord - Iran, Islamic Republic of*
	S06.03-P **SOIL FUNCTIONS IN A CHANGING CLIMATE - RECENT INSIGHTS FROM FIELD EXPERIMENTS**
	S06.03-P -1 AFFORESTATION AS A WATER-SAVING ALTERNATIVE LAND USE FOR SALINE CROPLANDS IN THE LOWER REACHES OF THE AMU DARYA RIVER, CENTRAL ASIA *Tilman Schachtsiek, Bonn - Germany*
	S06.03-P -2 TEMPORAL VARIATIONS IN RE-FLOODED ACID SULFATE SOIL ENVIRONMENTS AROUND LAKES ALEXANDRINA AND ALBERT, SOUTH AUSTRALIA *Andrew Baker, Adelaide - Australia*
	S06.03-P -3 CONSEQUENCES OF THE COMBINATION OF FREQUENT WILDFIRES AND DRYING-REWETTING EVENTS ON THE SOIL MICROBIAL FUNCTIONS IN A MEDITERRANEAN AREA *René Guénon, Reims - France*
	S06.03-P -4 DETERMINING HALOPHYTES ECOLOGICAL DRIVERS IN TIDAL WETLAND SOILS FOR SUSTAINABLE PRODUCTION IN ABANDONED SALTPANS *Erika S. Santos, Loulé - Portugal*
	S06.03-P -5 EFFECT OF LAND USE ON SOIL NUTRIENTS *Holger Pabst, Göttingen - Germany*
	S06.03-P -6 EFFECTS OF A 13-MONTH EXPERIMENTAL DROUGHT ON THE PARTITIONING OF NUTRIENT AND ORGANIC MATTER FLUXES IN A COCOA AGROFOREST IN CENTRAL SULAWESI, INDONESIA *Michalzik Beate, Jena - Germany*
	S06.03-P -7 ELEVATED CO2 AND WARMING ALTER THE SOIL MICROBIAL COMMUNITY'S ABILITY TO DECOMPOSE LITTER *Yui Osanai, Hobart - Australia*
	S06.03-P -8 FUTURE CLIMATE IMPACTS ON WATER DYNAMICS OF YOUNG MINE SITE AFFORESTATIONS-MODELLING REGIONAL LEVEL EFFECTS IN EASTERN GERMANY *Dirk Knoche, Finsterwalde - Germany*
	S06.03-P -9 GENESIS AND AMELIORATION OF SODA-SALTED SOILS *Tatiana Minkina, Rostov-on-Don - Russian Federation*
	S06.03-P -10 IS FUNCTIONAL DIVERSITY OF SOIL FUNGI MORE LINKED TO ABOVE-GROUND VEGETATION OR TO SOIL PHYSICOCHEMICAL PROPERTIES? *Iker Mijangos, Derio - Spain*

TUESDAY 3 JULY 2012 - FIRST FLOOR - Pavilion 10

POSTER SESSIONS

	S06.03-P -11 MONITORING DROUGHT EFFECTS ON SOIL STRUCTURE AND HYDROLOGICAL SOIL FUNCTIONS *Katharina Gimbel, Freiburg - Germany*
	S06.03-P -12 NITROGEN AND MICROBIAL DYNAMICS IN TWO PORTUGUESE FLOODED RICE SOILS *Corina Carranca, Oeiras - Portugal*
	S06.03-P -13 PREDICTION OF THE EFFECTS OF CLIMATE CHANGE ON THE SOIL SALINITY OF AN IRRIGATED AREA UNDER MEDITERRANEAN CONDITIONS *Jose Miguel De Paz, Valencia - Spain*
	S06.03-P -14 ROADSIDES IN URBAN AREAS OR IN THE OPEN LANDSCAPE ARE SECONDARY HABITATS *Bozena Sera, Ceske Budejovice - Czech Republic*
	S06.03-P -15 SOIL CARBON STOCKS IN THE FOREST SECTOR OF JAPAN AND THEIR DETERMINING FACTORS *Ugawa Shin, Tsukuba - Japan*
	S06.03-P -16 SOIL INORGANIC CARBON STOCK OF ITALY *Roberto Barbetti, Firenze - Italy*
	S06.03-P -17 TEMPERATURE EFFECTS ON VARIOUS FOREST LITTER DURING THEIR DECOMPOSITION ALONG MOUNTAIN ELEVATION GRADIENT *Beata Klimek, Krakow - Poland*
	S06.03-P -18 CHANGES IN EXTRACTABLE ZN, CU, K AND NA AS AFFECTED BY SILICON, SALINITY AND WATERLOGGING IN A SANDY LOAM SOIL *Jahanshah Saleh, Tabriz - Iran, Islamic Republic of*
	S07.02-P **INNOVATION AND SOIL SCIENCE - APPLICATION OF ADVANCED NMR AND MRI TECHNIQUES FOR IMPROVING OUR UNDERSTANDING OF SOIL ORGANIC MATTER FORMATION AND ITS INTERACTION WITH THE MINERAL PHASE**
	S07.02-P -1 APPLICATION OF FAST FIELD CYCLING NMR RELAXOMETRY FOR THE EVALUATION OF THE EFFECTS OF ORGANIC AMENDMENTS ON STRESSED SOILS *Maria A. Rao, Portici - Italy*
	S07.02-P -2 APPLICATION OF FAST FIELD CYCLING NMR RELAXOMETRY TO DIFFERENTIATE AMONG AFFORESTED SOILS *Pellegrino Conte, Palermo - Italy*
	S07.02-P -3 ASSESSING THE INFLUENCE OF BIOCHAR ON SOIL STRUCTURE AND SOIL WATER RETENTION: A 1H NMR RELAXOMETRY STUDY COUPLED WITH HIGH-ENERGY MOISTURE CHARACTERISTIC TECHNIQUE ON A LABORATORY SCALE *Claudio De Pasquale, Palermo - Italy*
17.00-18.30	S07.02-P -4 COMBINING SOLID-STATE 13C NMR SPECTROSCOPY WITH CHEMICAL ANALYSIS TO STUDY SOM STABILIZATION MECHANISMS IN BRAZILIAN SOILS *Marta Velasco-Molina, Santiago de Compostela - Spain*
	S07.02-P -5 EFFECT OF HF DEMINERALIZATION PRE-TREATMENT ON THE QUALITATIVE AND QUANTITATIVE ASSESSMENT OF SOM IN ANDOSOLS. PY-GC/MS AND SOLID STATE NMR SPECTROSCOPY *José A. González-Pérez, Seville - Spain*
	S07.02-P -6 EFFECTS OF MANURE AND MINERAL FERTILIZATION ON SURFACE AREA (SA) OF DIFFERENT WATER STABLE AGGREGATES *Gianluca Simonetti, Legnaro (PD) - Italy*
	S07.02-P -7 ESTIMATED AND DIAGNOSTIC CRITERIA OF QUALITATIVE COMPOSITION OF SOIL ORGANIC MATTER *Alexander Popov, St. Petersburg - Russian Federation*
	S07.02-P -8 EXPLOITING 13C MAGNETIZATION VIA MULTIPLE CONTACTS: AN EFFICIENT CROSS POLARIZATION SCHEME FOR SOIL ORGANIC MATTER STUDIES *Denis Courtier-Murias, Toronto - Canada*
	S07.02-P -9 IMPROVING STRUCTURAL CHARACTERIZATION OF SOIL ORGANIC MATTER BY 2-DIMENSTIONAL HETERONUCLEUS CORELATION SOLID-STATE 13C NMR (HETCOR) SPECTROSCOPY *Heike Knicker, Sevilla - Spain*
	S07.02-P -10 LONG-TERM EFFECTS OF MANURE AND MINERAL FERTILIZATION ON SAND SOIL ORGANIC MATTER *Gianluca Simonetti, Legnaro (PD) - Italy*
	S07.02-P -11 NON-INVASIVE LOCALIZATION OF SOIL ORGANIC MATTER IN SOIL AGGREGATES USING SYNCHROTRON-BASED X-RAY MICROTOMOGRAPHY *Stephen Peth, Kiel - Germany*
	S07.02-P -12 NOVEL APPROACHES FOR IDENTIFYING PHOSPHORUS SPECIES IN TERRESTRIAL AND AQUATIC ECOSYSTEMS BY 31P NMR *Johan Vestergren, Umeå - Sweden*
	S07.02-P -13 ORGANO-MINERAL INTERACTIONS IN THE ALLOPHANIC ANDOSOL AND ARENOSOL: THE IMPACT OF MICRO-MORPHOLOGY AND SURFACE CHEMISTRY AS REVEALED BY 129XE- AND 13C NMR SPECTROSCOPES *Filimonova Svetlana, Freising, - Germany*
	S07.02-P -14 SOLID STATE 13C NMR AS A WAY TO EVALUATE ORGANIC MATTER IN AGRICULTURAL SOILS *Marco Panettieri, Seville - Spain*
	S07.02-P -15 SOLID-STATE 13C AND 15N NMR SPECTROSCOPIC ANALYSIS OF ORGANIC MATTER IN A MEDITERRANEAN SOIL AFTER AMENDMENT OF N-AMMOXIDIZED LIGNINS *Heike Knicker, Seville - Spain*

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POSTER SESSIONS

17.00-18.30	S07.02-P -16 THE USE OF 2D-HETCOR IN SOIL SCIENCE *Anne E. Berns, Jülich - Germany*
	S07.02-P -17 THERMAL INDUCED CHANGES IN PHYSICAL STRUCTURE OF DISSOLVED ORGANIC MATTER AS ASSESSED BY FAST FIELD CYCLING NMR RELAXOMETRY *Jiri Kucerik, Landau - Germany*
	W11.01-P **THROUGH EYE OF THE NEEDLE: THE SOIL MICROBIAL BIOMASS CONCEPT FROM NUTRIENT CYCLING TO GLOBAL WARMING - Dedicated to the memory of Professor David Jenkinson**
	W11.01-P -1 INFLUENCE OF FLOODING AND ORGANIC ENRICHED WATER ON PHOSPHORUS MOBILIZATION AND INTERACTIONS TO REDOX POTENTIAL *Artur Banach, Lublin - Poland*
	W11.01-P -2 INTERACTIONS OF SOIL PHOSPHORUS AND CARBON CYCLING DURING DRYING AND REWETTING EVENTS *Else K. Bünemann, Zurich - Switzerland*
	W11.01-P -3 OVER WINTER CHANGE OF SOIL PHOSPHORUS DYNAMICS AS AFFECTED BY TILLAGE PRACTICES IN A LONG-TERM SOYBEAN-MAIZE ROTATION *Noura Ziadi, Quebec - Canada*
	W11.01-P -4 P AND N AVAILABILITY CONSTRAINS SOIL MICROORGANISMS AND PASTURE PRODUCTIVITY IN THE TROPICAL MOUNTAIN RAINFOREST REGION OF SOUTH ECUADOR *Alexander Tischer, Tharandt - Germany*
	W11.01-P -5 ROCK PHOSPHATES AS A VALUABLE PHOSPHOROUS SOURCE IN ACID SOILS *Camilla Giovannini, Bologna - Italy*
	W11.01-P -6 SOIL P STATUS VERSUS P BUDGET OVER 16 YEARS UNDER NO-TILL AND MOULDBOARD PLOUGHING WITH ANNUAL COMBINATIONS OF N AND P FERTILIZATION *Aime Jean Messiga, Quebec - Canada*
	W11.01-P -7 SOIL PHOSPHORUS FRACTIONS FOLLOWING TILLAGE AND PHOSPHORUS FERTILIZATION IN A LONG TERM MAIZE-SOYBEAN ROTATION *Noura Ziadi, Quebec - Canada*
	W11.01-P -8 SOIL TEST P CONCENTRATIONS IN THE SOIL PROFILE OF A GRASSLAND AFTER 8 YEARS OF CONTRASTING N AND P FERTILIZATION *Aime Jean Messiga, Quebec - Canada*
	W11.01-P -9 THE DYNAMICS OF NITROGEN AND PHOSPHORUS CONTENT IN THE SOIL DURING DECOMPOSITION OF CUT PLANT RESIDUES ON SWARD SURFACE *Karin Kauer, Tartu - Estonia*
	W11.01-P -10 EFFECTIVENESS OF 3,4-DIMETHYLPYRAZOLE PHOSPHATE (DMPP) AS NITRIFICATION INHIBITOR IN SOIL AS INFLUENCED BY FERTILIZER, TEMPERATURE AND SOIL BIOLOGICAL PROPERTIES *Alessandro Florio, Rome - Italy*
	W11.01-P -11 EFFECTS OF LONG-TERM APPLICATION OF BIOGAS SLURRY ON SOIL FERTILITY UNDER CONDITIONS OF ORGANIC FARMING PRACTICE *Stefanie Wentzel, Kassel - Germany*
	W11.01-P -12 EFFECTS OF THE NITRIFICATION INHIBITOR 3,4-DIMETHYLPYRAZOLE PHOSPHATE (DMPP) ON SOIL MICROBIAL COMMUNITIES AFTER BOVINE EFFLUENT APPLICATION IN EXPERIMENTAL MICROCOSMS *Alessandro Florio, Rome - Italy*
	W11.01-P -13 INFLUENCE OF ORGANIC FERTILIZATION WITH NITRIFICATION INHIBITOR (3,4 DMPP), ON SOIL BIOLOGICAL PARAMETERS AND MICROBIAL DYNAMICS IN A MICROCOSM EXPERIMENT SYSTEM *Anita Maienza, Viterbo - Italy*
	W11.01-P -14 INTERACTIONS OF MUSTARD PLANTS AND SOIL MICROORGANISMS AFTER APPLICATION OF SUGARCANE FILTER CAKE AND PEA RESIDUES TO AN ANDOSOL *Rainer Georg Joergensen, Witzenhausen - Germany*
	W11.01-P -15 THE CULTIVATION POSSIBILITIES OF METHANOTROPHIC BACTERIA POPULATIONS ISOLATED FROM TWO COAL BED ROCKS OF LUBLIN COAL BASIN *Jakub Ciepielski, Lublin - Poland*
	W11.01-P -16 WORKING WITH CFE METHODS FOR MORE THAN 30 YEARS – HOW USEFUL IS IT? *Hana Santruckova, Ceske Budejovice - Czech Republic*
	S13.02-P **SOIL STATUS AND SOCIETY**
	S13.02-P -1 EUROPEAN NETWORK ON SOIL AWARENESS *Gabriele Broll, Osnabrueck - Germany*
	S13.02-P -2 INNOVATIVE MECHANISMS FOR SOIL ENGAGEMENT – THE SCOTTISH EXPERIENCE *Willie Towers, Aberdeen - United Kingdom*
	S13.02-P -3 MULTITEMPORAL ANALYSIS OF THE CHANGES OF USE AND SOIL COVER ON THE ISLAND OF MARANHÃO – BRAZIL *Sandra Maria Oliveira Sá, São Luis - Brazil*
	S13.02-P -4 SOIL AWARENESS RAISING AS ONE OF THE MOST IMPORTANT WAYS OF ENVIRONMENTAL PROTECTION *Beata Houskova, Bratislava - Slovakia*
	S13.02-P -5 SOILS AS SINKS AND SOURCES FOR CO2: HANDS-ON STUDENT EXPERIMENTS ABOUT THE TERRESTRIAL CARBON CYCLE *Anett Hofmann, Zurich - Switzerland*
	S13.02-P -6 TEACHING SOIL EROSION IN HIGH SCHOOLS. A COHERENT SET OF EXPERIMENTS SHOWING PROCESSES AND FACTORS *Baptiste Algayer, Orléans - France*

TUESDAY 3 JULY 2012 - GROUND FLOOR - Pavilion 9

POSTER SESSIONS

17.00-18.30	**S02.04-P** **SOIL CLASSIFICATION: USING WRB FOR PROVIDING SOIL INFORMATION AND MAKING HARMONIZED MAPS ON A EUROPEAN LEVEL**
	S02.04-P -1 EXPERIENCE USE OF WORLD SOIL RESOURCES (WRB) IN GEORGIA (ON EXAMPLE OF THE HUMID SUBTROPIC SOILS) *Tamari Kvrivishvili, Tbilisi - Georgia*
	S02.04-P -2 ADAPTING HUMUS FORM CLASSIFICATION TO WRB PRINCIPLES *Graefe Ulfert, Hamburg - Germany*
	S02.04-P -3 APPLICATION OF PEDROMETIC METHODS FOR CORRALTION OF NATIONAL SYSTEMS WITH WRB *Vince Lang, Godollo - Hungary*
	S02.04-P -4 APPLICATION OF THE WRB AND USDA SOIL TAXONOMY IN SOIL MAPPING ON THE EXAMPLE OF AN AREA TRANSFORMED BY MASS WASTING ACTIVITY IN GÓRY KAMIENNE (SUDETES, SW POLAND) *Lukasz Musielok, Kraków - Poland*
	S02.04-P -5 CONVERTING THE LEGEND OF THE SOIL MAP OF BELGIUM INTO THE WORLD REFERENCE BASE FOR SOIL RESOURCES: (I) LESSONS FROM CORRELATING NATIONAL SOIL SURVEY DATA TO AN INTERNATIONAL SOIL CLASSIFICATION SYSTEM *Antoine Bouhon, Liège - Belgium*
	S02.04-P -6 HARMONISATION OF DATASETS ON SOIL DISTRIBUTION USING WRB – EXPERIENCES FROM A FRENCH-GERMAN CROSS-BOUNDARY SOIL MAP IN THE FRAMEWORK OF INSPIRE *Einar Eberhardt, Hannover - Germany*
	S02.04-P -7 HARMONIZATION OF SWISS LEGACY SOIL DATA: THE SOIL INFORMATION SYSTEM NABODAT *Urs Grob, Zürich - Switzerland*
	S02.04-P -8 HOW TO COORDINATE SOIL INFORMATION ACROSS POLITICAL BOUNDARIES. A 1:200,000 APPROACH *Wolf Eckelmann, Hannover - Germany*
	S02.04-P -9 NATURAL VS ANTHROPOGENIC TRACE METALS IN SOILS: INADEQUACY OF TAXONOMIES, USEFULNESS OF SOIL KNOWLEDGE *Denis Baize, Orleans - France*
	S02.04-P -10 TOWARDS A UNIVERSAL SOIL CLASSIFICATION SYSTEM *Jaume Bech, Barcelona - Spain*
	S02.04-P -11 TRANSLATING SOIL PROFILE DATA BETWEEN NATIONAL SOIL CLASSIFICATION SYSTEMS *Markus Van Der Meer, Zurich - Switzerland*
	S03.02-P **SOIL EROSION AND DEGRADATION ON AGRICULTURE LAND**
	S03.02-P -1 A MATHEMATICAL MODELLING FOR LAND DEGRADATION IN A MINIATURE ARTIFICIAL RAIN MODEL *S.ali Almodaresi, Yazd - Iran, Islamic Republic of*
	S03.02-P -2 ABANDONMENT OF VINEYARDS AND ITS CONSEQUENCES IN ORGANIC CARBON, SOIL STRUCTURE AND WATER HOLDING CAPACITY *Maria Jose Marques, Madrid - Spain*
	S03.02-P -3 AGRICULTURAL SOIL ALTERATION DUE TO LAND IMPROVEMENTS IN THE ALPS (AOSTA VALLEY, NW-ITALY) *Fabienne Curtaz, Turin - Italy*
	S03.02-P -4 ASSESSING THE SOIL EROSION RATE OF SLOPING VINEYARDS BY MEANS OF MODIFIED MMF-SAGA MODEL *Marcella Biddoccu, Turin - Italy*
	S03.02-P -5 ASSESSMENT OF PHOSPHORUS TRANSFER FROM AGRICULTURAL LANDS TO THE SURFACE WATER IN FRANCE *Magalie Delmas, Orléans - France*
	S03.02-P -6 ASSESSMENT OF THE EROSION RISK IN THE FEDERAL STATE OF BRANDENBURG IN THE CONTEXT OF CROSS COMPLIANCE *Detlef Deumlich, Müncheberg - Germany*
	S03.02-P -7 BREAKDOWN OF SOIL AGGREGATES DEVELOPED ON DIFFERENT PARENT MATERIAL USING LOW INTENSITY ULTRASONIC VIBRATIONS *Taru Lehtinen, Vienna - Austria*
	S03.02-P -8 CARBON LOSSES AND AGROECOLOGICAL ASSESSMENT OF ERODED SOILS UNDER DIFFERENT BIOCLIMATIC ZONES OF RUSSIAN PLANE *Artemyeva Zinaida, Moscow - Russian Federation*
	S03.02-P -9 USAGE OF GEOINFORMATION LAYERS IN SOLVING WATER EROSION OF SOIL *Vera Vánová, Prague - Czech Republic*
	S03.02-P -10 CHANGES OF BULK DENSITY AND AIR-WATER PROPERTIES OF SOILS IN BASINS WITHOUT OUTLETS AS AN EFFECT OF EROSION AND ANTHROPOGENIC DENUDATION, STUDIES FROM NORTH-WESTERN POLAND *Boguslawa Przewozna, Warsaw - Poland*
	S03.02-P -11 CONDITIONS FOR THE OCCURRENCE OF SLAKING AND OTHER DISAGGREGATION PROCESSES UNDER RAINFALL *Frédéric Darboux, Orléans - France*

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POSTER SESSIONS

17.00-18.30	S03.02-P -12 DECENTRALISED POLICY FOR SUSTAINABLE WETLAND RESOURCES IN THE IGULUIBI AND UPPER RIVER RUIZI WATER CATCHMENTS LAKE VICTORIA BASIN UGANDA. *Alice Nakiyemba Were, Tororo - Uganda*
	S03.02-P -13 EFFECT OF PERSISTENT SUBSOIL COMPACTION ON N2O EMISSIONS FROM ARABLE SOILS *Asko Simojoki, Helsinki - Finland*
	S03.02-P -14 EFFECTS OF EROSION ON GREENHOUSE GAS FLUXES IN A YOUNG MORAINE LANDSCAPE OF NE GERMANY *Madlen Pohl, Müncheberg - Germany*
	S03.02-P -15 EVALUATING THE IMPACT OF HYDROFOBICITY IN OLIVE GROVES OF SOUTHERN SPAIN *Maria Burguet, Cordoba - Spain*
	S03.02-P -16 EVALUATION OF SOIL PHYSICAL QUALITY UNDER DIFFERENT SOIL LAND USES IN A SMALL SICILIAN WATERSHED *Massimo Iovino, Palermo - Italy*
	S03.02-P -17 FROM A GEOCHEMICALLY TO A PHYSICALLY-DRIVEN SOIL BLEACHING: THE ROLE OF AGRICULTURAL PRACTICES *David Montagne, Paris - France*
	S03.02-P -18 GEOMETRY OF SOIL AGGREGATION *Léon E. Parent, Quebec - Canada*
	S03.02-P -19 GULLY EROSION PREDICTION IN A SAHELIAN CONTEXT *Aurore Gay, Orléans - France*
	S03.02-P -20 HIGH SCALE EROSION MODELLING FOR MUDDY FLOOD INVESTIGATION *Sarah Annika Arévalo, Freiberg - Germany*
	S03.02-P -21 HIGH-RESOLUTION EROSION RISK MAP OF SWITZERLAND IN A 2X2-METER GRID (ERM2) *Volker Prasuhn, Zurich - Switzerland*
	S03.02-P -22 TOWARDS NEW EROSION RISK ASSESSMENT IN NORWAY *Frauke Hofmeister, Ås - Norway*
	S03.02-P -23 IMPACT OF TILLAGE ALONG A SOIL TOPOSEQUENCE IN A TRADITIONAL CEREAL CROP *Maria Jose Marques, Madrid - Spain*
	S03.02-P -24 INVESTIGATING SYNDROMES OF AGRICULTURAL LAND DEGRADATION THROUGH PAST TRAJECTORIES AND FUTURE SCENARIOS *Luca Salvati, Rome - Italy*
	S03.02-P -25 LONG-TERM EFFECTS OF GYPSUM, SUGAR FOAM WASTE AND DOLOMITIC ROCK SURFACE INCORPORATED INTO A DEGRADED ACID SOIL ON SOIL ORGANIC CARBON, SOIL CHEMICAL PROPERTIES AND CROP PRODUCTION *Pedro González-Fernández, Córdoba - Spain*
	S03.02-P -26 MAPPING SOIL EROSION RISK AT THE LANDSCAPE SCALE BY ADAPTING THE NATIONAL MODEL MESALES WITH PRECISE SOIL AND AGRONOMICAL INPUT DATA *Blandine Lemercier, Rennes - France*
	S03.02-P -27 MAPPING SOIL EROSION RISK USING RUSLE, GIS AND REMOTE SENSING TECHNIQUES *Ahmed Harb Rabia, Damanhur - Elbehera - Egypt*
	S03.02-P -28 MODELING SOIL EROSION AND RESULTING SEDIMENT DELIVERY TO SURFACE WATERS AS PRECONDITIONS FOR REGIONAL EROSION CONTROL STRATEGIES *Marcus Schindewolf, Freiberg - Germany*
	S03.02-P -29 PEDOGENETIC PROCESSES, SOIL HYDROLOGY AND EROSION ALONG A SOIL CATENA IN THE TURBOLO WATERSHED (NORTHWEST CALABRIA, SOUTHERN ITALY) *Fabio Scarciglia, Arcavacata di Rende (CS) - Italy*
	S03.02-P -30 QUANTIFICATION OF LESSIVAGE IN SOILS: AN EXPERIMENTAL APPROACH *Sophie Cornu, Aix en Provence - France*
	S03.02-P -31 REMOVAL EFFECT OF THE TEPHRA LAYER IN MULCHED IRRIGATED SOILS *Francisco Díaz, La Laguna - Spain*
	S03.02-P -32 RUNOFF, SOIL AND NUTRIENT LOSS VARIABILITY WITHIN AGRICULTURAL LEVELLED PLOTS UNDER HIGH INTENSITY RAINFALL *Maria Concepción Ramos, Lleida - Spain*
	S03.02-P -33 SOIL EROSION AND RIVER EXPORTS IN THE LOIRE RIVER BASIN *Aurore Gay, Orléans - France*
	S03.02-P -34 SOIL EROSION ON NEW CITRUS PLANTATIONS IN EASTERN SPAIN TRIGGER DESERTIFICATION PROCESSES *Artemi Cerdà, Valencia - Spain*
	S03.02-P -35 THE MAP OF THE MAXIMUM ADMISSIBLE VALUE OF THE CONSERVATION EFFECT FACTOR OF THE CANOPY COVER AS A TOOL FOR EFFECTIVE WATER EROSION PREVENTION IN THE CZECH REPUBLIC *Hana Kristenová, Prague - Czech Republic*

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POSTER SESSIONS

	S03.02-P -36 SOIL –LANDSCAPE RELATIONS IN THE SOUTHWESTERN HIGHLANDS OF UGANDA *Wanyama Joshua Wanyama, Leuven - Belgium*
	S03.02-P -37 SOIL PROTECTION AND SUSTAINABLE RURAL LAND DEVELOPMENT IN POLAND *Piotr Sklodowski, Warsaw - Poland*
	S03.02-P -38 SOIL TEXTURE AS AN INDICATOR OF ENVIRONMENTAL CHANGES IN AGRICULTURAL LANDSCAPE OF NORTH-EASTERN POLAND *Pawel Sowinski, Olsztyn - Poland*
	S03.02-P -39 SPATIAL ANALYSIS OF THE SOIL LOSS FACTORS IN IRRIGATED AREAS OF THE CERRADO REGION OF BRAZIL *Celia Regina Bueno, Jaboticabal - Brazil*
	S03.02-P -40 SPATIAL AND TEMPORAL VARIABILITY OF CO2 SOIL EMISSION IN A MEDITERRANEAN PEACH ORCHARD *Giuseppe Montanaro, Potenza - Italy*
	S03.02-P -41 STABILIZATION OF SOIL ORGANIC MATTER BY AGGREGATION AND INTERACTIONS WITH MINERALS IS AFFECTED BY SOIL EROSION *Xiang Wang, Amsterdam - Netherlands*
	S03.02-P -42 SUBSOIL COMPACTION OF ARABLE LAND IN UPPER AUSTRIA *Erwin Murer, Petzenkirchen - Austria*
	S03.02-P -43 SUPERFICIAL AND SUBTERRANEAN SOIL EROSION IN TABASCO, TROPICAL MEXICO *Violette Geissen, Wageningen - Netherlands*
	S03.02-P -44 SUSTAINABLE MANAGEMENT OF POTATO ROTATIONS TO MINIMISE SOIL COMPACTION, SURFACE RUNOFF AND DIFFUSE POLLUTION RISK *Martyn Silgram, Wolverhampton - United Kingdom*
	S03.02-P -45 TEMPORAL EVOLUTION OF SOIL ERODIBILITY: ASSESSMENT OF EXPLANATORY FACTORS, AND CONSEQUENCES ON EROSION MODELLING. AN EXAMPLE FROM THE BEAUCE AREA, FRANCE *Baptiste Algayer, Orléans - France*
	S03.02-P -46 TESTING THE "PHYSICAL MODEL CONCEPT" BY SOIL LOSS DATA MEASURED IN SICILY *Vito Ferro, Palermo - Italy*
	S03.02-P -47 THE EROSION OF AGRICULTURAL SEEDBANKS *Timothy D. Lewis, Dundee - United Kingdom*
17.00-18.30	S03.02-P -48 THE IMPORTANCE OF ROOTS FOR GULLY EXPANSION IN CEREAL AND OLIVE ORCHARDS *Erik Cammeraat, Amsterdam - Netherlands*
	S03.02-P -49 THE LONG-TERM EFFECTS OF THE SOIL MANAGEMENT IN A TOURISM AREA ON CARBON CONTENT AND MICROBIAL ACTIVITY UNDER A HUMID CLIMATE, NORTH OF IRAN *Farshad Kiani, Gorgan - Iran, Islamic Republic of*
	S03.02-P -50 SOIL INTERRILL ERODIBILITY OF THE SEMI-ARID AREA SOILS: A CASE STUDY IN EAST AZARBAIJAN PROVINCE, IRAN *Abbas Ahmadi, Tabriz - Iran, Islamic Republic of*
	S03.02-P -51 IMPACT OF RAPID URBANIZATION ON SOIL DEGRADATION IN ZIARAT WATERSHED GOLESTAN PROVINCE, NORTH OF IRAN *Farshad Kiani, Gorgan - Iran, Islamic Republic of*
	S03.02-P -52 CHANGES IN SOIL CARBON AMOUNTS UNDER THE IMPACT OF RAPID GROWTH URBANIZATION IN NORTHERN IRAN *Farshad Kiani, Gorgan - Iran, Islamic Republic of*
	S06.04-P **LYSIMETER RESEARCH AND CLIMATE CHANGE**
	S06.04-P -1 3RD GENERATION LYSIMETER TECHNIQUES: THE LYSIMETER-FIELD INTERFACE *Georg Von Unold, Munich - Germany*
	S06.04-P -2 APPLICATION OF THE MODEL MIKE SHE AT THE LYSIMETER WAGNA *Christian Reszler, Graz - Austria*
	S06.04-P -3 COMPARISON OF CALCULATED ET0 TO MEASURED ET USING PRECISION LYSIMETERS *Fank Johann, Graz - Austria*
	S06.04-P -4 COMPARISON OF THE SIMULATION MODELS CANDY AND STOTRASIM ON LYSIMETER-SCALE *Johannes C. Draxler, Graz - Austria*
	S06.04-P -5 CONNECTION OF LYSIMETER MEASUREMENT WITH CATCHMENT MANAGEMENT IN THE MIYUN RESERVOIR NEAR BEIJING, CHINA *Ralph Meissner, Falkenberg - Germany*
	S06.04-P -6 DESIGN AND ASSESSMENT OF PAN LYSIMETERS TO MONITOR INFILTRATIONS THROUGH A MUNICIPAL SOLID WASTE FACILITY COVER *Serge-Étienne Parent, Québec - Canada*

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POSTER SESSIONS

	S06.04-P -7 HYDRAULIC PROPERTIES OF GRAVEL INVESTIGATED ON AN INDOOR LYSIMETER *Franz Feichtinger, Petzenkirchen - Austria*
	S06.04-P -8 INVERSE MODELLING OF WATER FLOW AND ROOT WATER UPTAKE IN LYSIMETERS *Henrike Schelle, Braunschweig - Germany*
	S06.04-P -9 LYSIMETER AS A COMPONENT OF AN INTEGRATIVE APPROACH TO SIMULATE GLOBAL WARMING IMPACT ON GRASSLAND *Markus Herndl, Irdning - Austria*
	S06.04-P -10 LYSIMETER EXPERIMENTS TO INVESTIGATE THE FATE OF CHLORIDAZON IN LEACHATE SAMPLES *Andrea Fuhrmann, Vienna - Austria*
	S06.04-P -11 MEASURING WATER CHANGES IN THE SOIL WITH AUTOMATED MICROLYSIMETERS *Olga Ucles, Almeria - Spain*
	S06.04-P -12 NITRATE LEACHING IN AGRICULTURAL SOILS WITH AND WITHOUT IRRIGATION, DURING DRY SUMMERS *Christiane Vögeli Albisser, Zürich - Switzerland*
	S06.04-P -13 ON THE EVALUATION OF PRECISION LYSIMETER MASS DATA *Fank Johann, Graz - Austria*
	S06.04-P -14 OVERALL SOIL QUALITY AND CROP YIELD POTENTIAL OF LYSIMETER SITES *Lothar Müller, Müncheberg - Germany*
	S06.04-P -15 RESPONSE OF FOREST SOIL C AND N TO A SNOW MANIPULATION EXPERIMENT IN THE NORTH-WESTERN ITALIAN ALPS *Davide Viglietti, Grugliasco (TO) - Italy*
	S06.04-P -16 SMOOTHING NOISY WEIGHING DATA OF A LYSIMETER WITH A LEVER-ARM-COUNTER-BALANCE WEIGHING SYSTEM *Reinhard Nolz, Vienna - Austria*
	S06.04-P -17 SURVEY OF WATER BALANCE COMPONENTS AS DETERMINED ON SELECTED LYSIMETER SITES IN AUSTRIA *Peter Cepuder, Vienna - Austria*
	S06.04-P -18 SUSTAINED STIMULATION OF SOIL RESPIRATION AND CO2 RELEASE AFTER 10 YEARS OF EXPERIMENTAL WARMING *Jean Charles Munch, Neuherberg - Germany*
17.00-18.30	S06.04-P -19 THE FUTURE OF ALPINE FARMING - WATER BALANCE AND GLOBAL CHANGE *Georg Leitinger, Innsbruck - Austria*
	S06.04-P -20 UPSCALING UNCERTAINTIES DUE TO INSUFFICIENT SOIL DEPTH INFORMATION FOR MODELLING GROUNDWATER RECHARGE AND NITROGEN LEACHING *Gernot Klammler, Graz - Austria*
	S06.04-P -21 USING AUTOMATIC SMALL LYSIMETER SYSTEMS TO MEASURE CLIMATE CHANGE INDUCED DROUGHT EFFECTS ON ALPINE GRASSLANDS *Nikolaus Obojes, Bolzano - Italy*
	W06.01-P **FOREST BIOENERGY AND SOIL SUSTAINABILITY**
	W06.01-P -1 BIOMASS UTILIZATION AND ITS CONSEQUENCES ON SOILS – THE RETROSPECT VIEW *Viktor J. Bruckman, Vienna - Austria*
	W06.01-P -2 ENZYME ACTIVITIES IN SOIL PROFILE OF TWO BEECH FORESTS ON CAMPANIA APENNINES *Stefania Papa, Caserta - Italy*
	W06.01-P -3 ESTIMATION OF METHANE POTENTIAL OF AGRICULTURAL SECTOR IN KOREA *Joungdu Shin, Suwon - Korea*
	W06.01-P -4 EXAMINING WHOLE SITE PRODUCTIVITY WHEN INTERCROPPING GIANT MISCANTHUS (MISCANTHUS × GIGANTEUS) WITH LOBLOLLY PINE (PINUS TAEDA) FOR BIOENERGY FEEDSTOCK PRODUCTION IN SOUTHEASTERN UNITED STATES *Ryan Heiderman, Raleigh - United States*
	W06.01-P -5 FOREST BIOENERGY CLIMATE IMPACT CAN BE IMPROVED BY ALLOCATING FOREST RESIDUE REMOVAL *Anna Repo, Helsinki - Finland*
	W06.01-P -6 GETTING QUANTITATIVE: HOW MUCH SLASH SHOULD REMAIN ON SITE TO SUSTAIN TREE GROWTH? *David Paré, Québec - Canada*
	W06.01-P -7 IMPACTS OF DISC TRENCHING ON SOIL WATER AND HEAT FLOWS IN A FOREST REGENERATION AREA IN SWEDEN *Linnea Hansson, Uppsala - Sweden*
	W06.01-P -8 LONG-TERM SUSTAINABILITY OF FOREST SOIL FERTILITY ASSESSED BY NUTRIENT INPUT-OUTPUT BUDGETS AND A MODELING APPROACH *Gregory Van Der Heijden, Nancy - France*

TUESDAY 3 JULY 2012 - GROUND FLOOR - Pavilion 9

POSTER SESSIONS

17.00-18.30	W06.01-P -9 RESULTS FROM INTENSIVE HARVESTING FIELD TRIALS: HOW DOES EUROPE COMPARE WITH NORTH AMERICA? *Brian Titus, Victoria - Canada*
	W06.01-P -10 WHOLE-TREE HARVEST AT FINAL-FELLING; LONG-TERM EFFECTS ON SOIL PROPERTIES IN A NORWAY SPRUCE STAND *Lilli Kaarakka, Helsinki - Finland*
	S08.01-P **HYDROPEDOLOGY, INCLUDING APPLICATIONS IN A KARST ENVIRONMENT**
	S08.01-P -1 PROTOZOAN CILIATES FROM THE SULPHIDIC SEDIMENTS OF POZZO DEI CRISTALLI (FRASSASI CAVES, ITALY) *Santosh Kumar, Camerino (MC) - Italy*
	S08.01-P -2 SOIL CATENAS ON THE SLOPES OF SINKHOLES *Maria Smirnova, Moscow - Russian Federation*
	S08.01-P -3 THE SUBSOIL SHAPING OF KARST SURFACES (SHILIN, CHINA) *Tadej Slabe, Postojna - Slovenia*
	S08.01-P -4 CHARACTERISTICS OF THE WATER REGIME OF EUGLEY AMPHIGLEYIC SOIL IN EASTERN CROATIA *Dragutin Petosic, Zagreb - Croatia*
	S08.01-P -5 CHERNOZEM AND CHESTNUT SOILS OF SOUTH RUSSIA LONG-TERM CHANGE UNDER IRRIGATION *Valerie Kalinichenko, Persianovka - Russian Federation*
	S08.01-P -6 ECOHYDROLOGICAL IMPORTANCE OF GROUND WATER LEVEL *Sjoerd Van Der Zee, Wageningen - Netherlands*
	S08.01-P -7 ECOSYSTEM'S FRAGILITY UNDER THE LATERALLY UNIFORM CONTINUOUS METHODS OF IRRIGATION *Valerie Kalinichenko, Persianovka – Russian Federation*
	S08.01-P -8 EXPERIMENTAL DESIGNS TO EVALUATE THE IMPACTS OF INNOVATING CROPPING SYSTEMS ON SOIL TRANSFER PROPERTIES *Claudia Carolina Ugarte, Dijon - France*
	S08.01-P -9 FACILITATING INTERPRETATION OF THE CATHEDRAL PEAK VI CATCHMENT HYDROGRAPH USING SOIL DRAINAGE CURVES *Bataung Kuenene, Bloemfontein - South Africa*
	S08.01-P -10 FITTING PERFORMANCE OF PARTICLE SIZE DISTRIBUTION MODELS FOR SOILS OF THE HUMID TROPICS *Botula Manyala Yves-dady , Ghent - Belgium*
	S08.01-P -11 HYDROBOD – A HYDROLOGICAL SOIL CLASSIFICATION SYSTEM TO ACCOUNT FOR DIFFERENT FLOW GENERATION PROCESSES *Alexander Eder, Petzenkirchen - Austria*
	S08.01-P -12 HYDROLOGICAL RESPONSE MODEL OF A COMPLEX SOILSCAPE IN THE WEATHERLEY CATCHMENT, SOUTH AFRICA *Darren Bouwer, Bloemfontein - South Africa*
	S08.01-P -13 INTEGRATION OF SOIL AND AGROGEOLOGICAL DATABASES FOR THE COMPILATION OF 3D SOIL PHYSICAL DATASETS *Zsófia Bakacsi, Budapest - Hungary*
	S08.01-P -14 ISOTOPIC AND CHEMICAL EVIDENCE ON THE TRANSITION UNSATURATED – SATURATED ZONE: FROM THE LYSIMETER TO GROUNDWATER BODY SCALE *Martin Kralik, Vienna - Austria*
	S08.01-P -15 LANDSCAPE EVOLUTION AND SOIL HYDROLOGICAL CHANGES AT THE MILLENIUM SCALE: A CASE STUDY FROM THE CAMPINE AREA, NORTHERN BELGIUM *Koen Beerten, Mol - Belgium*
	S08.01-P -16 MAPPING SOIL WATER REGIME AT FARM SCALE: COULD FARMERS HELP SCIENTISTS? *Noëlle Guix, Clermont-Ferrand - France*
	S08.01-P -17 MICROMORPHOLOGICAL MEASUREMENT OF CORRELATION AND TORTUOSITY FACTORS IN UNSATURATED HYDRAULIC CONDUCTIVITY *Giacomo Mele, Ercolano (NA) - Italy*
	S08.01-P -18 POTENTIAL IMPACT OF PODZOLISATION ON LONG TERM GROUNDWATER RECHARGE *Bertrand Leterme, Mol - Belgium*
	S08.01-P -19 RELATIONSHIP BETWEEN SPATIAL RESOLUTION AND ACCURACY OF PREDICTIVE MAPS ON STREAM FLOW COMPARING AGGREGATED POLYGON AND RASTER CONTINUOUS MAPS DERIVED FROM TERRAIN ATTRIBUTES *Zamir Libohova, Lincoln - United States*
	S08.01-P -20 SOIL CONTROL ON THE SPATIAL VARIABILITY OF DOC CONCENTRATION IN HEADWATER CATCHMENTS *Anne Jaffrezic, Rennes - France*
	S08.01-P -21 SPATIAL AND TEMPORAL PATTERNS REGARDING WATER STORAGE CAPACITY IN SOILS AROUND MOUNT KILIMANJARO *Anna Kühnel, Bayreuth - Germany*

TUESDAY 3 JULY 2012 - GROUND FLOOR - Pavilion 9

POSTER SESSIONS

17.00-18.30	S08.01-P -22 THE NEW INTRASOIL PULSE DISCRETE CONCEPT OF IRRIGATION *Valery Kalinitchenko, Persianovka - Russian Federation*
	S08.01-P -23 TOWARD INCLUDING MULTI-SCALE SOIL PROPERTIES THAT INFLUENCE HYDROLOGY MODELING *Cristine Morgan, College Station - United States*
	S08.01-P -24 VARIABILITY OF SOIL PROPERTIES AND SOIL WATER CONTENT IN VINEYARD PLOTS AFFECTED BY LAND LEVELLING: AN OPPORTUNITY FOR PRECISION VITICULTURE *María Concepción Ramos, Lleida - Spain*
	S08.01-P -25 WATER USE EFFICIENCY OF RED CABBAGE, BROCCOLI, AND HEAD LETTUCE AS AFFECTED BY GROUND WATER TABLE *Sujeong Shin, Cheongju - Korea, Republic of*
	S10.03-P **INFLUENCES OF TREE SPECIES ON FOREST SOILS**
	S10.03-P -1 'INTERACTIONS OF UNDERSTORY COVER, MICROSITE PARAMETERS AND TREE RECRUITMENT ALONG A TEMPORAL AND SPATIAL DISTURBANCE GRADIENT IN THE AUSTRIAN NORTHERN LIMESTONE ALPS' *Gisela Pröll, Vienna - Austria*
	S10.03-P -2 AFFORESTATION OF FORMER CROPLAND IN DENMARK: EFFECTS OF TREE SPECIES AND TIME ON SOIL CARBON *Teresa Gómez Bárcena, Copenhagen - Denmark*
	S10.03-P -3 BIOGENIC TRANSFORMATION OF CLAY MINERALS IN FOREST-STEPPE SOILS *Alexander Shinkarev, Kazan - Russian Federation*
	S10.03-P -4 DO TREE SPECIES IN TEMPERATE FORESTS REALLY INFLUENCE SOIL CARBON? *Lars Vesterdal, Frederiksberg C - Denmark*
	S10.03-P -5 EFFECT OF TREE IDENTITY AND DIVERSITY ON THE BELOWGROUND MICROBIAL COMMUNITY *Andrea Scheibe, Jena - Germany*
	S10.03-P -6 EFFECTS OF SHORT ROTATION FORESTRY ON SOIL FAUNAL COMMUNITY DEVELOPMENT *Nalika Swarnamali Senevirathna Rajapaksha, Preston - United Kingdom*
	S10.03-P -7 EFFECTS OF TREE SPECIES DIVERSITY ON EARTHWORM COMMUNITIES IN EUROPEAN FORESTS *Hans De Wandeler, Leuven - Belgium*
	S10.03-P -8 EFFECTS OF TREE SPECIES ON FINE ROOT BIOMASS *Timo Domisch, Joensuu - Finland*
	S10.03-P -9 EVALUATION OF RELATIONS BETWEEN SOIL PROPERTIES AND SEVERITY OF DAMAGES OF SPRUCE (PICEA ABIES (L.) H.KARST) STANDS IN 2010 IN LATVIA *Arta Bardule, Salaspils - Latvia*
	S10.03-P -11 IMPACT OF HYBRID ASPEN (POPULUS TREMULOIDES X P.TREMULA) ON SOIL MICROBIAL POPULATIONS *Lelde Grantina, Riga - Latvia*
	S10.03-P -12 IMPACT OF TREE SAPLINGS ON THE KINETIC ENERGY OF RAINFALL – THE IMPORTANCE OF STAND DENSITY, SPECIES IDENTITY AND TREE ARCHITECTURE IN SUBTROPICAL FORESTS IN CHINA *Christian Geißler, Tübingen - Germany*
	S10.03-P -13 INFLUENCE OF CANOPY STRUCTURE ON THE SPATIAL HETEROGENEITY OF THROUGHFALL DERIVED DISSOLVED AND PARTICULATE ORGANIC MATTER FLUXES IN FOREST ECOSYSTEMS *Sebastian Bischoff, Jena - Germany*
	S10.03-P -14 INFLUENCE OF TREE SPECIES ON SOM STABILIZATION IN AFFORESTED PASTURES USING CALORIMETRY, THERMAL ANALYSIS AND 13C-CPMAS NMR *Nieves Barros Pena, Santiago de Compostela - Spain*
	S10.03-P -15 IS THE CHANGING MINERAL NUTRIENT DEMAND OF FOREST STAND GROWTH REFLECTED IN THE POTASSIUM AND CALCIUM STATUS OF THE SOIL? *Shuai Yan, Vienna - Austria*
	S10.03-P -16 LEAF LITTER DECOMPOSITION OF FOUR DIFFERENT DECIDUOUS TREE SPECIES - RESOURCE CHEMISTRY, STOICHIOMETRY AND MICROBIAL COMMUNITY COMPOSITION *Katharina Maria Keiblinger, Vienna - Austria*
	S10.03-P -17 LITTERFALL QUANTITY AND QUALITY AND NUTRIENT STATUS IN A YOUNG STAND UNDER NORWAY SPRUCE AND BROADLEAVED SPECIES *Masoud Bazgir, Ilam - Iran, Islamic Republic of*
	S10.03-P -18 MICROBIAL FUNCTIONAL DIVERSITY AS INFLUENCED BY DIFFERENT TREE SPECIES IN MEDITERRANEAN FOREST SOILS *M. Cristina Moscatelli, Viterbo - Italy*
	S10.03-P -19 MIXED SPECIES NUTRITIONAL INTERACTIONS: SOIL C AND N AT THE INTERFACE BETWEEN NEIGHBORING EUROPEAN BEECH AND DOUGLAS-FIR STANDS *Seid Muhie, Copenhagen - Denmark*
	S10.03-P -20 MULTI-ISOTOPIC TRACING (26MG, 44CA, 15N AND 2H) – A TOOL TO BETTER UNDERSTAND BIOGEOCHEMICAL CYCLES IN FOREST ECOSYSTEMS *Gregory Van Der Heijden, Nancy - France*

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POSTER SESSIONS

	S10.03-P -21 SEASONAL VARIATION ON THE INTERACTION BETWEEN TREE SPECIES AND SOIL MICROORGANISMS *Carolin Thoms, Jena - Germany*
	S10.03-P -22 SOIL CARBON DYNAMICS UNDER PINUS KORAIENSIS AND QUERCUS ACUTISSIMA FOREST FLOORS IN RELATION TO NITROGEN ADDITION *Ro Hee-Myong, Seoul - Korea, Republic of*
	S10.03-P -23 SOIL MICROBIAL AND FAUNAL COMMUNITIES ASSOCIATED WITH DIFFERENT TREE SPECIES: CAUSES AND CONSEQUENCES *Sue Grayston, Vancouver - Canada*
	S10.03-P -24 THE EFFECTS OF DIFFERENT TREE SPECIES ON SOIL BIOTA AND SOIL CHEMICAL PROPERTIES AT THE TWO-AGED STANDS *Byung Bae Park, Seoul - Korea, Republic of*
	S10.03-P -25 TREE DIVERSITY EFFECT ON PHOSPHORUS AVAILABILITY IN SUBTROPICAL FOREST ECOSYSTEMS IN SOUTHERN CHINA *Björn Todt, Freiburg - Germany*
	S10.03-P -26 TREE SPECIES EFFECTS ON SEEPAGE FLUXES IN SOIL IN A TROPICAL AFFORESTATION *Matthias Sprenger, Koblenz - Germany*
	S10.03-P -27 TREE SPECIES-SPECIFIC EFFECTS ON SOIL PROPERTIES IN DECLINING MIXED OAK FORESTS *Jose M. Avila, Seville - Spain*
	S10.03-P -28 TREE-INDUCED VARIABILITY IN BOREAL FOREST SOIL FERTILITY, RUSSIA *Maria Orlova, Moscow - Russian Federation*
	S10.03-P -29 TURNOVER OF ORGANIC MATTER AND CARBON ACCUMULATION IN COEVAL FORESTS OF PINUS PINEA AND FAGUS SYLVATICA *Anna De Marco, Napoli - Italy*
	S10.03-P -30 UNIQUE CHARACTERISTICS OF HIGH ACTIVITY OF NITROGEN FIXATION IN DECOMPOSING LITTER AND NITRIFICATION IN MINERAL SOIL OF JAPANESE CEDAR (CRYPTOMERIA JAPONICA) *Keizo Hirai, Morioka, Iwate - Japan*
	S10.03-P -31 VARIATION IN THE IMPACT OF TREE SPECIES ON SOIL PERMEABILITY *Kathy Chandler, Lancaster - United Kingdom*
	S12.07-P **POTENTIALLY HARMFUL ELEMENTS IN SOILS**
	S12.07-P -1 THE INFLUENCE OF POLLUTED SOIL IN THE UPTAKE OF ARSENIC AND OTHER TOXIC METALS BY SOME GREEN AND RED VEGETABLES *Alberto De Diego, Leioa - Spain*
17.00-18.30	S12.07-P -2 EFFECTS OF MYCORRHIZA AND SALICYLIC ACID ON GROWTH, CADMIUM CONTENT AND UPTAKE OF CORN (ZEA MAYS L.) SEEDLINGS IN CADMIUM CONTAMINATED MEDIA *Füsun Gülser, Van - Turkey*
	S12.07-P -3 EFFECT OF THE ORGANIC AMENDMENTS ON THE ECODYNAMICS OF TRACE METALS IN POLYCONTAMINATED ALKALINE TECHNO-SOIL *Nour Hattab, Orleans - France*
	S12.07-P -4 A COMPARISON OF BA, CU, NI PB, V AND ZN CONCENTRATIONS DETERMINED BY AQUA REGIA AND XRF ANALYSES IN SOILS OF A MEDITERRANEAN REGION, CATALONIA, SPAIN *Jaume Bech, Barcelona - Spain*
	S12.07-P -5 AN EVALUATION OF THE MEDALUS ESA INDEX (ENVIRONMENTAL SENSITIVITY TO LAND DEGRADATION), IN MURCIA REGION, SE SPAIN *Carmen Perez- Sirvent, Murcia - Spain*
	S12.07-P -6 ARSENIC BIOACCESSIBILITY FACTOR AND RISK ASSOCIATED WITH CONTAMINATED SOIL INGESTION *Carmen Perez- Sirvent, Murcia - Spain*
	S12.07-P -7 ARSENIC CONTENT IN SOILS SUBJECTED TO ANTHROPIC POLLUTION *Silvia Rita Stazi, Viterbo - Italy*
	S12.07-P -8 ASSESSMENT OF HEAVY METALS POLLUTION IN SULPHIDE MINE AFFECTED-SOILS OF MADRID, CENTRAL SPAIN *Lorena Recio-Vázquez, Madrid - Spain*
	S12.07-P -9 ASSESSMENT OF THE PHYTOREMEDIATION POTENTIAL OF CANOLA (BRASSICA NAPUS L.) AND VETIVER (VETIVERIA ZIZANIOIDES L.) FOR TOXIC ELEMENTS *Claudia Zoani, Roma - Italy*
	S12.07-P -10 ASSIMILATION OF CADMIUM AND LEAD BY CORIANDER CULTIVATED IN AN ARGILLACEOUS BRAZILIAN SOIL *Madson De Godoi Pereira, Salvador - Brazil*
	S12.07-P -11 AVAILABILITY OF BA, CR, CU, NI AND ZN IN TROPICAL SOILS SUBJECTED TO THE ADDITION OF SEWAGE SLUDGE *Larissa Macedo Dos Santos, Pato Branco - Brazil*
	S12.07-P -12 BACKGROUND LEVELS OF POTENTIALLY HARMFUL ELEMENTS IN TERRACED AGROECOSYSTEMS OF NE ITALY: GEOGENIC VS ANTHROPOGENIC ENRICHMENT *Claudio Bini, Venice - Italy*
	S12.07-P -13 BIOINDICATORS IN ASSESSMENT OF SEDIMENT QUALITY *Sonja Gvozdenac, Novi Sad - Serbia*
	S12.07-P -14 CADMIUM ACCUMULATION IN PLANT AND SOIL FOLLOWING NINE YEARS OF PAPER MILL BIOSOLIDS AND LIMING MATERIALS APPLICATION *Antoine Karam, Quebec - Canada*

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POSTER SESSIONS

17.00-18.30	S12.07-P -15 CAN COMPOST AND TRICHODERMA ENHANCE GIANT REED PHYTOEXTRACTION EFFICIENCY? RESULTS FROM A TWO YEAR OPEN FIELD EXPERIMENT *Nunzio Fiorentino, Portici - Italy*
	S12.07-P -16 CAN EARLY STAGES CONCENTRATIONS BE USEFULL TOOLS TO ENHANCE THE PREDICTION OF TRACE METAL UPTAKE BY VEGETABLES GROWN ON CONTAMINATED SOILS? *Gilles Colinet, Gembloux - Belgium*
	S12.07-P -17 CHEMISTRY OF VANADIUM IN SOIL- THE UNDERLYING BASIS FOR RISK ASSESSMENT *Inka Reijonen, Helsinki - Finland*
	S12.07-P -18 COLLOIDAL TRANSPORT OF URANIUM IN SOIL STUDIED BY BOTH STATIC AND DYNAMIC LIXIVIATION IN LABORATORY BATCH AND COLUMN SYSTEMS *Stephanie Harguindeguy, Pau - France*
	S12.07-P -19 COLUMN LEACHING TESTS ON SOILS CONTAINING LESS INVESTIGATED ORGANIC POLLUTANTS *Ute Kalbe, Berlin - Germany*
	S12.07-P -20 CONCENTRATIONS AND DISTRIBUTIONS OF CU, CR, NI AND PB IN SOILS OF THE PRELITORAL RANGE, SECTOR SENTMENAT (CATALONIA, SPAIN) *Jaume Bech, Barcelona - Spain*
	S12.07-P -21 CONCENTRATIONS OF CE, GA, MO, RB, SN, Y AND ZR IN SOILS OF CENTRAL CATALONIA, SPAIN *Jaume Bech, Barcelona - Spain*
	S12.07-P -22 CONDITIONS FOR GROWTH OF FOREST VEGETATION ON EMBANKMENTS AFTER COAL MINING *Jaume Bech, Barcelona - Spain*
	S12.07-P -23 COPPER FRACTION ACCUMULATION IN SANDY SOILS, CULTIVATED WITH VINES AND WITH HISTORY OF CUPRIC FUNGICIDE APPLICATION IN THE SOUTH REGION OF BRAZIL *Gustavo Brunetto, Florianópolis - Brazil*
	S12.07-P -24 DISTRIBUTION OF HEAVY METALS IN RICE FARMING SOILS OF A COASTAL WETLAND (L'ALBUFERA DE VALENCIA, SPAIN) *Vicente Andreu, Valencia - Spain*
	S12.07-P -25 EFFECT OF LIMING ON THE DISTRIBUTION OF MANGANESE AND MANGANESE UPTAKE BY MAIZE GROWN IN A COARSE TEXTURED SOIL *Antoine Karam, Quebec - Canada*
	S12.07-P -26 EFFECT OF TIN OXIDE (SNO2) NANOPARTICLES ON SOIL ORGANISMS (MICROBIAL BIOMASS, LUMBRICUS RUBELLUS) *Serena Carbone, Bologna - Italy*
	S12.07-P -27 ESTIMATION OF POTENTIAL POLLUTION IN SOIL AROUND A CLOSED INDUSTRIAL AND URBAN WASTE DUMP SITE IN HERNANI (BASQUE COUNTRY, NORTH OF SPAIN) *Alberto De Diego, Leioa - Spain*
	S12.07-P -28 EVALUATING A SOIL QUALITY STANDARD FOR CD IN AGRICULTURAL MEDITERRANEAN SOILS UNDER A NON-ACCUMULATOR CROP *Luis Recatalá Boix, Moncada (Valencia) - Spain*
	S12.07-P -29 EVALUATION OF THALLIUM TOXICITY WITH PLANT BIOASSAYS AND BIOCHEMICAL TESTS *Laura Crippa, Milano - Italy*
	S12.07-P -30 EXPERIENCE OF THE REMEDIATION OF SOILS POLUUTED BY HEAVY METALS IN IRRIGATION DISTRICT IN SOUTHERN GEORGIA *Besik Kalandadze, Tbilisi - Georgia*
	S12.07-P -31 FIELD EVALUATION OF ONE CU-RESISTANT TOBACCO VARIANT AND ITS PARENTAL LINES FOR COPPER PHYTOEXTRACTION AT A WOOD PRESERVATION SITE *Michel Mench, Talence - France*
	S12.07-P -32 FRAMEWORK TRANSFORMATION OF FAU TYPE ZEOLITE IN HIGH ALKALINITY *Leen Van Tendeloo, Leuven - Belgium*
	S12.07-P -33 GEOCHEMISTRY ANALYSIS OF RARE EARTH ELEMENTS OF SOUTHERN ITALY SOILS *Ilaria Guagliardi, Rende (CS) - Italy*
	S12.07-P -34 HEAVY METAL ADSORPTION IN SALT-AFFECTED LAKE SEDIMENTS AT FEHÉR-LAKE, SZEGED, HUNGARY *Gábor Bozsó, Szeged - Hungary*
	S12.07-P -35 HEAVY METAL CONTENT IN CULTIVATED SOILS OF UPPER RIO NEGRO VALLEY (PATAGONIA, ARGENTINA) *Jaume Bech, Barcelona - Spain*
	S12.07-P -36 INCREASING THE KNOWLEDGE ON THE TRANSFERENCE OF ZN TO AN ACCUMULATOR CROP (LACTUCA SATIVA L.) IN REPRESENTATIVE MEDITERRANEAN SOILS *Luis Recatalá Boix, Moncada (Valencia) - Spain*
	S12.07-P -37 INFLUENCE OF SOIL PROPERTIES ON POTENTIALLY HARMFUL ELEMENTS (PHES) *Ilaria Guagliardi, Rende (CS) - Italy*
	S12.07-P -38 MECHANOCHEMICAL IMMOBILIZATION OF COPPER BY DIOCTAHEDRAL AND TRIOCTAHEDRAL SMECTITES *Maria D.r. Pizzigallo, Bari - Italy*

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POSTER SESSIONS

	S12.07-P -39 MERCURY ACCUMULATION IN SOILS AND CROPS IN A MINING REGION OF SAN JOAQUÍN, QUERETARO, MÉXICO *Sara Solís-Valdez, Querétaro - Mexico*
	S12.07-P -40 METHODOLOGY FOR ASSESSING ENVIRONMENTAL HAZARDS RESULTING FROM GEOCHEMICAL ANOMALIES OF TOXIC ELEMENTS IN SOILS OF THE IBERIAN MASSIF (SW SPAIN) *Isabel Gonzalez, Sevilla - Spain*
	S12.07-P -41 MODEL OF PROPOSED TREATMENT FOR IN SITU REMEDIATION IN PORTMAN BAY *Carmen Perez- Sirvent, Murcia - Spain*
	S12.07-P -42 NICKEL PRESENCE IN OLIVE OIL MILL WASTE DISPOSAL AREAS *Sid Theocharopoulos, Athens - Greece*
	S12.07-P -43 NITRATE LEACHING AND NITROGEN TRANSFORMATIONS ON A SAND LOAM SOIL UNDER DIFFERENT FORMS OF NITROGEN AND SULPHUR APPLICATION *Safaa Mahmoud, Giza - Egypt*
	S12.07-P -44 PB TOXICITY VALUES FOR A NON-ACCUMULATOR CROP IN REPRESENTATIVE AGRICULTURAL MEDITERRANEAN SOILS *Luis Recatalá Boix, Moncada (Valencia) - Spain*
	S12.07-P -45 PHES CONTAMINATION FROM A MINING SITE IN NE ITALY: ASSESSMENT OF METAL ACCUMULATION AND TOXICITY IN WILLOW *Mohammad Wahsha, Venice - Italy*
	S12.07-P -46 PHES INDUCE ADVERSE EFFECTS ON WILD PLANTS GROWING ON MINE WASTE. PRELIMINARY RESULTS ON DANDELION (TARAXACUM OFFICINALE WEBER) FROM VALLE IMPERINA (ITALY) *Claudio Bini, Venice - Italy*
	S12.07-P -47 PHOSPHORUS FRACTIONS IN VINEYARD SOILS IN THE SOUTH REGION OF BRAZIL *Jucinei José Comin, Florianópolis - Brazil*
17.00-18.30	S12.07-P -48 POTENTIAL USE OF BAMBOOS AS BIOFILTERS IN BELGRADE *Ljubinko Jovanovic, Belgrade - Serbia*
	S12.07-P -49 PRELIMINARY STUDY ABOUT MERCURY THERMAL DESORPTION ON SOILS FROM ALMADÉN DISTRICT AREA *Maria Jose Sierra, Madrid - Spain*
	S12.07-P -50 THE INFLUENCE OF INTERFERING IONS IN SOIL ON CHELATE-ASSISTED PHYTOEXTRACTION OF COPPER *Tijana Zeremski, Novi Sad - Serbia*
	S12.07-P -51 ZEOLITES AS SORPTION SINK FOR 137CS+ IN ULTRA-ALKALINE CONDITIONS *Eric Breynaert, Leuven - Belgium*
	S12.07-P -52 TRACE ELEMENTS ACCUMULATION AND TRANSLOCATION IN CISTUS LADANIFER L. GROWING IN PORTUGUESE IBERIAN PYRITE BELT MINE AREAS *Erika S. Santos, Loulé - Portugal*
	S12.07-P -53 TRANSFER OF CD, CU AND ZN FROM SOIL INTO FOOD CROPS IN THE MASHAVERA VALLEY, GEORGIA *Levan Navrozashvili, Giessen - Germany*
	S12.07-P -54 USING LIBS TO INVESTIGATE ELEMENTAL CONTENT IN PLANTS AND COMPOSTS DURING SOIL REMEDIATION PROCESSES *Claudio Zaccone, Foggia - Italy*
	S12.07-P -55 VALIDATION OF BATCH TESTS FOR THE EXAMINATION OF LEACHING BEHAVIOUR OF ORGANIC POLLUTANTS FROM CONTAMINATED SOILS *Wolfgang Berger, Berlin - Germany*
	S12.07-P -56 VICIA FABA RESPONSES TO LEAD POLLUTION AND ROLE OF METAL SPECIATION *Muhammad Shahid, Vehari - Pakistan*
	S12.07-P -57 TO INVESTIGATE THE VARIATION OF HEAVY METALS CONCENTRATION IN DEPOSITS OF ZAYANDERUD RIVER BED *Ali Izadi Ghorveh, Esfahan - Iran, Islamic Republic of*

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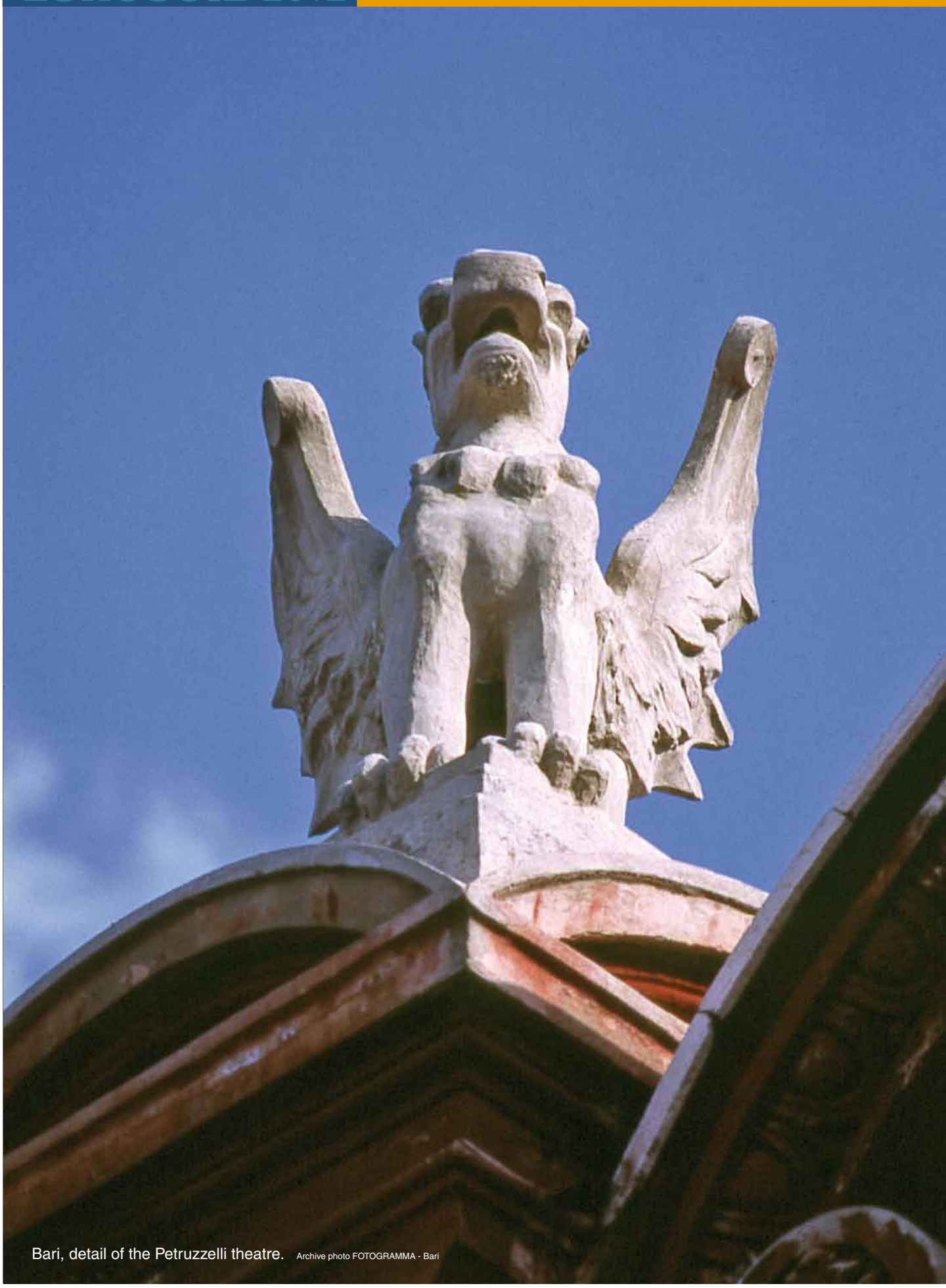
EUROSOIL 2012

4 WEDNESDAY 4 JULY



Bari, detail of the Petruzzelli theatre. Archive photo FOTOGRAMMA - Bari

WEDNESDAY 4 JULY 2012 - ROOM ACERO - Pavilion 10

ORAL SESSIONS

BLOCK I 08.30-10.00	**S07.04** **SOIL ORGANIC MATTER DYNAMICS AND CLIMATE** *Chair Persons:* Adele Muscolo, Reggio Calabria - Italy Pavle Pavlovic, Belgrade - Serbia Maria Sidari, Reggio Calabria - Italy	BLOCK III 13.30-15.00	**S11.02b** **SOIL BIODIVERSITY AND ECOSYSTEM SERVICES** *Chair Person:* Rachel Creamer, Teagasc - Ireland
	S07.04 -1 3-YEARS OF SIMULATED WARMING IMPACT THE DYNAMICS OF WATER-EXTRACTABLE ORGANIC MATTER IN A SPHAGNUM PEATLAND *Frédéric Delarue, Orléans - France*		S11.02b -1 SOIL BIOINDICATORS FOR SOIL MONITORING, RISK ASSESSMENT AND SOIL CHARACTERIZATION. RESULTS FROM THE FRENCH NATIONAL "BIOINDICATORS PROGRAMME." *Guénola Pérès, Paimpont - France*
	S07.04 -2 THE INFLUENCE OF PRECIPITATION AND TEMPERATURE ON SOIL ORGANIC MATTER DYNAMICS IN A DUTCH MIXED FARM SYSTEM *Martine Hoogsteen, Wageningen - Netherlands*		S11.02b -2 RESULTS OF A COUNTRY-SCALE SURVEY ON THE EFFECTS OF AGRICULTURAL PRACTICES ON SOIL MESOFAUNA IN HUNGARY *Miklós Dombos, Budapest - Hungary*
	S07.04 -3 DOES SOIL ORGANIC MATTER (SOM) QUALITY CONTROL SOM DYNAMICS IN ARCTIC PERMAFROST-AFFECTED SOILS? *Christophe Moni, AS - Norway*		S11.02b -3 SELECTION OF INDICATORS OF SOIL BIODIVERSITY FOR A EUROPEAN MONITORING SCHEME *Bryan Griffiths, Wexford - Ireland*
	S07.04 -4 SOC DYNAMICS IN GRASSLANDS: PLANT-MEDIATED EFFECTS, DRIVING FACTORS AND MICROBIAL RESPONSE *Elke Schulz, Halle - Germany*		S11.02b -4 NEMATODES AS INDICATORS OF SOIL HEALTH AND AGRICULTURAL SUSTAINABILITY: POSSIBILITIES OF THE METHOD WHEN APPLIED AT BOTH A NATIONAL AND EUROPEAN LEVEL *Dote Stone, Wexford - Ireland*
	S07.04 -5 LONG-TERM FERTILIZATION AND SOIL WARMING EFFECTS ON RECALCITRANT LITTER DECOMPOSITION *Bas Dingemans, Utrecht - Netherlands*		S11.02b -5 METAPROTEOMICS OF LEAF LITTER DECOMPOSITION *Sophie Zechmeister-Boltenstern, Vienna - Austria*
	S07.04 -6 SOIL AND PLANT CARBON LOSS ASSESSMENT AFTER LAND USE CHANGE ON STEEP SLOPES IN NORTHWESTERN VIETNAM *Volker Häring, Stuttgart - Germany*		S11.02b -6 DENITRIFYING BACTERIAL COMMUNITY STRUCTURE AND DENITRIFICATION POTENTIAL AS AFFECTED BY SOIL PROPERTIES IN WETLANDS CREATED IN CHESAPEAKE PIEDMONT, USA *Changwoo Ahn, Fairfax, Virginia - United States*
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*	*15.00-15.30*	*COFFEE BREAK - Bar Pavilion 9*
BLOCK II 10.30-12.00	**S11.02a** **SOIL BIODIVERSITY AND ECOSYSTEM SERVICES** *Chair Person:* Anne Winding, Aarhus - Denmark	BLOCK IV 15.30-17.00	**S11.02c** **SOIL BIODIVERSITY AND ECOSYSTEM SERVICES** *Chair Person:* Giacomo Pietramellara, Firenze - Italy
	S11.02a -1 CONNECTING SOIL BIODIVERSITY TO FUNCTIONS AND ECOSYSTEM SERVICES: PRESENTATION OF CASE STUDIES AND OF THE EU FP7 PROJECT ECOFINDERS *Philippe Lemanceau, Dijon - France*		S11.02c -1 BACTERIAL DIVERSITY ASSESSMENT OF HIGHLY COMPLEX SOIL ENVIRONMENTS USING MULTI-MILLION READ GENERATING SEQUENCING TECHNOLOGIES *Sotirios Vasileiadis, Piacenza - Italy*
	S11.02a -2 ECOSYSTEM SERVICES PROVIDED BY THE SOIL BIOTA *Lijbert Brussaard, Wageningen - Netherlands*		S11.02c -2 EFFECTS OF LAND USE INTENSITY ON EUROPEAN SOIL BACTERIAL, FUNGAL AND ARCHAEAL COMMUNITIES *Bruce Thomson, Wallingford - United Kingdom*
	S11.02a -3 MANAGING SOIL BIODIVERSITY FOR ECOSYSTEM SERVICES: CHALLENGES AND OPPORTUNITIES *Mary Stromberger, Fort Collins, Colorado - United States*		S11.02c -3 THE ROLE OF THAUMARCHAEA FOR AMMONIA OXIDATION IN SOIL *Michael Schloter, Oberschleissheim - Germany*
	S11.02a -4 SHIFTING DIMENSIONS – DEFINING THE ECOLOGICAL STATUS OF SOILS *Helaina Black, Aberdeen - United Kingdom*		S11.02c -4 COMMUNITY COMPOSITION OF AMMONIA OXIDIZING ARCHAEA AND BACTERIA AS A TOOL FOR EVALUATION OF QUALITY OF AGRICULTURAL SOILS *Jiri Cuhel, Brno - Czech Republic*
	S11.02a -5 TILLAGE-INDUCED CHANGES IN THE FUNCTIONAL DIVERSITY OF SOIL BIOTA *Christine Van Capelle, Braunschweig - Germany*		S11.02c -5 EROSION OF BIODIVERSITY AFFECTS THE STABILITY OF SOIL MICROBIAL COMMUNITIES *Vincent Tardy, Dijon - France*
	S11.02a -6 A TRIAL WITH ECOSYSTEM SERVICES IN SOIL OF FOUR ARABLE FARMS *Michiel Rutgers, Bilthoven - Netherlands*		S11.02c -6 EVALUATION OF SOIL QUALITY INDICATORS IN THREE DIFFERENT COLOMBIAN TROPICAL LAND MANAGEMENT AND USES *Maria Mercedes Martínez Salgado, Santiago - Chile*
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*		

SPECIAL EVENTS

18.30-20.00	**BM07** **GENERAL ASSEMBLY OF SOCIETÀ ITALIANA DELLA SCIENZA DEL SUOLO (SISS)** *Chair Person:* Nicola Senesi, Bari - Italy

WEDNESDAY 4 JULY 2012 - ROOM OLMO - Pavilion 10

ORAL SESSIONS

	S06.01a **GREENHOUSE GAS EMISSIONS FROM SOIL UNDER CHANGING ENVIRONMENTAL CONDITIONS: CONCEPTS, MODELING AND OBSERVATIONS** *Chair Person:* Marc Lamers, Hohenheim - Germany		**S06.01c** **GREENHOUSE GAS EMISSIONS FROM SOIL UNDER CHANGING ENVIRONMENTAL CONDITIONS: CONCEPTS, MODELING AND OBSERVATIONS** *Chair Person:* Jens-Arne Subke, Stirling - United Kingdom
	S06.01a -1 EFFECT OF SOIL PORE STRUCTURE ON CO2 FLUX IN SOILS UNDER NO-TILL AND CONVENTIONAL TILL *Shamsudheen Mangalassery, Loughborough - United Kingdom*		S06.01c -1 SENSITIVITY OF SOIL RESPIRATION WITH RESPECT TO MULTIPLE ENVIRONMENTAL FACTORS *Carlos Sierra, Jena - Germany*
	S06.01a -2 EFFECTS OF AGRICULTURAL TILLAGE PRACTISE ON GREEN HOUSE GAS BALANCE AND DYNAMICS OF AN ARABLE SOIL IN A LONG TERM FIELD EXPERIMENT *Jean Charles Munch, Neuherberg - Germany*		S06.01c -2 SOIL ORGANIC CARBON SEQUESTRATION IN GRAZING SYSTEMS OF THE SOUTHEASTERN USA *Alan Franzluebbers, Watkinsville Georgia - United States*
	S06.01a -3 GREENHOUSE GAS MITIGATION OPTIONS FOR CALIFORNIA AGRICULTURE *Johan Six, Davis - United States*		S06.01c -3 SPATIAL AND TEMPORAL VARIABILITY OF CO2 FLUXES IN TEMPERATE PERMANENT GRASSLANDS ON PEAT SOILS *Carolyn-Monika Schäfer, Tjele - Denmark*
BLOCK I 08.30-10.00	S06.01a -4 ORGANIC AGRICULTURE – GHG SAVINGS THROUGH SOIL CARBON SEQUESTRATION? *Jens Leifeld, Zurich - Switzerland*	BLOCK III 13.30-15.00	S06.01c -4 DUAL-CHAMBER MEASUREMENTS OF Δ13C OF SOIL-RESPIRED CO2 PARTITIONED USING A FIELD-BASED THREE END-MEMBER MODEL *Fabrizio Albanito, Aberdeen - United Kingdom*
	S06.01a -5 SIMULATING SOIL ORGANIC CARBON STOCK CHANGE IN JAPANESE AGRICULTURAL LAND WITH THE ROTHC MODEL *Yasuhito Shirato, Tsukuba - Japan*		S06.01c -5 INCREASED CO2 FLUXES UNDER WARMING TESTS IN HISTIC AND TURBIC CRYOSOLS FROM SALLUIT, NUNAVIK (QC, CANADA) *Julien Fouché, Aix en Provence - France*
	S06.01a -6 USING SOIL ORGANIC MATTER TO INITIALIZE THE ROTHC CARBON TURNOVER MODEL: A PEDOTRANSFER FUNCTION *Lutz Weihermueller, Juelich - Germany*		S06.01c -6 THE PERMAFROST TRANSECT - EFFECTS OF CLIMATE CHANGE AND LAND USE ON PERMAFROST AND CARBON DYNAMICS IN SOILS ALONG A CLIMATE GRADIENT ACROSS THE TIBETAN PLATEAU *Thomas Scholten, Tübingen - Germany*
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*	*15.00-15.30*	*COFFEE BREAK - Bar Pavilion 9*
	S06.01b **GREENHOUSE GAS EMISSIONS FROM SOIL UNDER CHANGING ENVIRONMENTAL CONDITIONS: CONCEPTS, MODELING AND OBSERVATIONS** *Chair Person:* Michael Herbst, Jülich - Germany		**S12.02** **EMERGING ORGANIC POLLUTANTS - FROM THE WASTEWATER TREATMENT FACILITY TO THE AGRICULTURAL FIELD** *Chair Persons:* Uri Mingelgrin, Bet Dagan - Israel Zev Gerstl, Bet Dagan - Israel
	S06.01b -1 DIRECT AND INDIRECT N2O EMISSIONS FROM AGRICULTURAL SOILS IN A CHANGING CLIMATE *Michael Dannenmann, Freiburg - Germany*		S12.02 -1 FATE OF RECALCITRANT PHARMACEUTICAL COMPOUNDS IN SOILS IRRIGATED WITH RECLAIMED WASTEWATER: TRANSPORT AND PLANT UPTAKE *Benny Chefetz, Rehovot - Israel - Invited*
	S06.01b -2 IMPACT OF TWO DIFFERENT TYPES OF GRASSLAND-TO-FIELD-CONVERSION ON GREENHOUSE GAS EMISSIONS AND SOIL MICROBIAL BIOMASS *Greta Roth, Braunschweig - Germany*		S12.02 -2 ADSORPTION OF WEAK ORGANIC ACID ANIONS TO BLACK CARBON: PROTON EXCHANGE-ENABLED ADSORPTION AND ELEVATION OF THE PKA ON THE SURFACE *Joseph Pignatello, New Haven, Connecticut - United States*
BLOCK II 10.30-12.00	S06.01b -3 POSITIVE FEEDBACK OF LONG-TERM CO2 ENRICHMENT ON N2O EMISSIONS, CH4 FLUXES AND A LACK OF SOIL C SEQUESTRATION IN OLD TEMPERATE GRASSLAND *Claudia Kammann, Gießen - Germany*	BLOCK IV 15.30-17.00	S12.02 -3 PLANT AND SOIL BACTERIA RESPONSE TO SULFADIAZINE EXPOSURE *Lucia Michelini, Padova - Italy*
	S06.01b -4 SOME ASPECTS OF THE SPATIAL VARIABILITY OF N2O EMISSIONS FROM AN AGRICULTURAL SOIL IN CENTRAL FRANCE *Agnès Grossel, Orléans - France*		S12.02 -4 UPTAKE AND TRANSFORMATION OF EMERGING POLLUTANTS IN SOIL BY PLANTS USED FOR FOOD AND FEED PRODUCTION *Thorsten Reemtsma, Leiozig - Germany*
	S06.01b -5 SEASONAL METHANE DYNAMICS IN THREE TEMPERATE GRASSLANDS ON PEAT *Carolyn-Monika Schäfer, Tjele - Denmark*		S12.02 -5 SORPTION AND ACCUMULATION OF HUMAN PHARMACEUTICALS IN WASTEWATER IRRIGATED FIELDS IN THE MEZQUITAL VALLEY, MEXICO *Philipp Dalkmann, Bonn - Germany*
	S06.01b -6 ARE SHIFTS IN SPATIAL NICHE OF METHANOTROPHS REGULATING SOIL METHANE UPTAKE? *Pascal Niklaus, Zürich - Switzerland*		S12.02 -6 OCCURRENCE AND SORPTION OF FLUOROQUINOLONE ANTIBIOTICS IN BRAZILIAN SOILS *Jussara Borges Regitano, Piracicaba - Brazil*
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*		

SPECIAL EVENTS

	BM01 **MEET THE EDITORS**
18.30-20.00	*Chair Persons:* Steve Jarvis, European Journal of Soil Science - United Kingdom Donald Davidson, Soil Use and Management - United Kingdom

WEDNESDAY 4 JULY 2012 - ROOM LECCIO - Pavilion 10

ORAL SESSIONS

	S08.02a **SOIL AND WATER INTERACTIONS AS ONE OF MAJOR DRIVING FORCES IN ENVIRONMENT** *Chair Persons:* Beata Houskova, Bratislava - Slovakia Luca Montanaella, Ispra - Italy		**S01.04** **SOIL RESEARCH FOR EUROPEAN CITIES** *Chair Persons:* Wolfgang Burghardt, Duisburg, Essen - Germany Jean-Louis Morel, Nancy - France
	S08.02a -1 THE EXTENDED EVAPORATION METHOD (EEM) FOR QUANTIFYING SOIL HYDRAULIC PROPERTIES *Wolfgang Durner, Braunschweig - Germany*		S01.04 -1 PROTECTIVE EFFECT OF SOIL SEALING - HEAVY METALS AND POLYCYCLIC AROMATIC HYDROCARBONS CONTENT IN EKRANIC TECHNOSOLS *Przemyslaw Charzynski, Torun - Poland*
	S08.02a -2 ACCOUNTING FOR MATRIX DEFORMATION IN DOUBLE-PERMEABILITY DESCRIPTIONS OF WATER FLOW IN SWELLING CLAY SOILS *Antonio Coppola, Potenza - Italy*		S01.04 -2 TRAFFIC SOILS OF SAINT-PETERSBURG *Evgeny Abakumov, Saint-Petersburg - Russian Federation*
BLOCK I 08.30-10.00	S08.02a -3 MOISTURE DIFFERENCES IN SWELLABLE AND NON-SWELLABLE CLAYS – A SENSIBILITY STUDY OF DIFFERENT MOISTURE DETECTION TECHNIQUES *Katja Emmerich, Eggenstein-Leopoldshafen - Germany*	BLOCK III 13.30-15.00	S01.04 -3 DIFFERENCES IN CARBON AND NITROGEN STOCKS AND ISOTOPIC COMPOSITIONS REGARDING THE EXPOSURE TIME OF SOILS TO URBAN CONDITIONS: THE CASE OF STREET TREE-PIT SOILS FROM THE CITY OF PARIS *Aleksandar Rankovic, Paris - France*
	S08.02a -4 GHG EMISSIONS FROM PEAT SOIL IN LYSIMETERS WITH A FALLING AND RAISING WATER TABLE *Örjan Berglund, Uppsala - Sweden*		S01.04 -4 TECHNOLOGICAL MATERIALS IN (URBAN) SOILS: A NEW WAY OF IDENTIFICATION USING FT-MIR SPECTROSCOPY *Britta Stumpe, Bochum - Germany*
	S08.02a -5 COUPLING HEAT, VAPOR AND LIQUID WATER TRANSPORT IN THE THREE-DIMENSIONAL CRITERIA 3D MODEL. *Marco Bittelli, Bologna - Italy*		S01.04 -5 TOOLS FOR RATIONAL PLANNING AND URBAN SOIL MANAGEMENT *Tomaž Vernik, Ljubljana - Slovenia*
	S08.02a -6 ENVIRONMENTAL IMPACT OF THREE FERTILIZER N SOURCES FOR POTATO PRODUCTION ON SANDY SOILS *Athyna Cambouris, Quebec - Canada*		S01.04 -6 INFLUENCE OF SOIL AERATION ON ROOTING AND GROWTH OF THE BEUYS-TREES IN KASSEL, GERMANY *Katharina Weltecke, Göttingen - Germany*
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*	*15.00-15.30*	*COFFEE BREAK - Bar Pavilion 9*
	S08.02b **SOIL AND WATER INTERACTIONS AS ONE OF MAJOR DRIVING FORCES IN ENVIRONMENT** *Chair Persons:* Beata Houskova, Bratislava - Slovakia Luca Montanarella, Ispra - Italy		**S11.07** **BIOTIC AND ABIOTIC DRIVERS OF PRIMING EFFECTS** *Chair Persons:* Evgenia Blagodatskaya, Pushchino - Russian Federation Sébastien Fontain, Clermont-Ferrand - France
	S08.02b -1 VEGETATION IMPACT ON THE HYDROLOGY OF AN AEOLIAN SANDY SOIL *Lubomir Lichner, Bratislava - Slovakia - Invited*		S11.07 -1 STABLE ISOTOPE LABELLING AND TRACKING TO QUANTIFY PLANT-MEDIATED PRIMING OF SOIL ORGANIC MATTER MINERALISATION *Eric Paterson, Aberdeen - United Kingdom*
	S08.02b -2 SOIL FUNCTIONING INDICATORS (INFOSOL): A METHODOLOGICAL APPROACH FOR DEVELOPING AND ASSESSING DYNAMIC SOIL FUNCTIONS WITHIN THE SOIL PROTECTION STRATEGY CONTEXT *Alice Alonso, Louvain-la-Neuve - Belgium*		S11.07 -2 STOICHIOMETRIC COUPLING OF C AND N TURNOVER REVEALS RHIZOSPHERE PRIMING EFFECTS *Per Bengtson, Lund - Sweden*
BLOCK II 10.30-12.00	S08.02b -3 SOIL – WATER INTERACTION EXEMPLIFIED IN THE SLOVAKIA-AUSTRIA MORAVA REGION: EFFORTS TO USE SOIL PROFILES IN FLOOD MANAGEMENT AND FLOOD PROTECTION. *Meinhard Breiling, Eschenau - Austria*	BLOCK IV 15.30-17.00	S11.07 -3 EFFECTS OF COMBINED TEMPERATURE AND DROUGHT TREATMENTS ON PRIMING *Thomas Wutzler, Jena - Germany*
	S08.02b -4 SOIL AND WATER INTERACTIONS IN IBERIAN EUCALYPT AND PINE FOREST PLANTATIONS *João Pedro Nunes, Aveiro - Portugal*		S11.07 -4 EFFECT OF PYROGENIC CARBON ADDITION ON GROSS NITROGEN MINERALIZATION AND EXTRACELLULAR ENZYME ACTIVITY *Bernardo Maestrini, Zurich - Switzerland*
	S08.02b -5 SPATIAL VARIABILITY OF SOIL PHYSICAL PROPERTIES IN A CULTIVATED FIELD *Coskun Gülser, Samsun - Turkey*		S11.07 -5 PRIMING EFFECTS: INTERACTIONS BETWEEN LIVING AND DEAD ORGANIC MATTER *Yakov Kuzyakov, Göttingen - Germany - Invited*
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*		S11.07 -6 DOES THE MINERALIZATION OF ERODED LAND-BORN C IN INLAND WATERS ACCELERATED BY PRIMING EFFECT? *Bertrand Guenet, Gif Sur Yvette - France*

SPECIAL EVENTS

18.30-20.00	**BM08/AIP** **GET TOGETHER OF ASSOCIAZIONE ITALIANA PEDOLOGI (AIP)** *Chair Person*: Fabio Petrella, Torino - Italy

WEDNESDAY 4 JULY 2012 - ROOM BIANCOSPINO - Pavilion 10

ORAL SESSIONS

BLOCK I 08.30-10.00	**S01.01a** **SOILS AND SEDIMENTS AS NATURAL ARCHIVES** *Chair Persons:* Daniela Sauer, Hohenheim - Germany Alexander Makeev, Moscow - Russian Federation	BLOCK III 13.30-15.00	**S02.05a** **BIOLOGICAL WEATHERING AND CYCLING OF IRON, SILICON AND OTHER MAJOR AND TRANCE ELEMENTS IN SOIL** *Chair Persons:* Ales Kapicka, Prague - Czech Republic Neli Jordanova, Sofia - Bulgaria
	S01.01a -1 ANCIENT DUNES AND PALEOSOLS OF THE SAHEL AND SAHARA IN EAST NIGER AS ARCHIVES OF PLEISTOCENE AND HOLOCENE CLIMATE CHANGES *Peter Felix-Henningsen, Giessen - Germany*		S02.05a -1 ANTHROPOGENIC IRON OXIDES IN SOILS - A BASIS FOR POLLUTION STUDY IN ORE MTS, CZECH REPUBLIC *Ales Kapicka, Prague - Czech Republic*
	S01.01a -2 LATE PLEISTOCENE-HOLOCENE TEPHRA AND VOLCANIC SOILS IN THE VESUVIUS FOOTHILL, SOUTHERN ITALY: RECONSTRUCTION OF TIME SPANS OF SOIL FORMATION AND CLIMATIC CHANGES *Fabio Scarciglia, Arcavacata di Rende (CS) - Italy*		S02.05a -2 CHARACTERIZATION OF PEDOGENIC FE/MN CONCRETIONS AND COATINGS IN REDOXIMORPHIC SOILS *Matthias Händel, Jena - Germany*
	S01.01a -3 POLYGENETIC PODZOLS DEVELOPED OF SLOPE COVER-BEDS IN THE SUDETES MOUNTAINS (SW POLAND) *Cezary Kabala, Wroclaw - Poland*		S02.05a -3 IRON(III) (HYDR)OXIDE-ORGANIC COPRECIPITATES – FROM STRUCTURE TO REACTIVITY *Anja Freund, Hannover - Germany*
	S01.01a -4 IDENTIFICATION AND QUANTIFICATION OF POSTSEDIMENTARY ROOT-DERIVED OM IN LOESS-PALEOSOL SEQUENCES USING LIPID MOLECULAR PROXIES *Martina Gocke, Bayreuth - Germany*		S02.05a -4 INVESTIGATIONS ON THE STABILITY OF SUPERPARAMAGNETIC MINERALS IN SOILS AND ROCKS *Holger Preetz, Hannover - Germany*
	S01.01a -5 SOIL WEATHERING AND ACCUMULATION RATES OF POORLY CRYSTALLINE PHASES DERIVED FROM A 1MA CHRONOSEQUENCE *Markus Egli, Zürich - Switzerland*		S02.05a -5 MERCURY MOBILIZATION IN FERRALITIC SOILS UNDER REDUCTIVE CONDITIONS *Noureddine Bousserrhine, Créteil - France*
	S01.01a -6 DO SMOULDERING FIRES ALONG PEAT COLUMNS AFFECT PALEOENVIRONMENTAL RECONSTRUCTIONS? *Claudio Zaccone, Foggia - Italy*		S02.05a -6 PATTERNS OF ORGANIC ACID EXUDATION OF PIONEERING FUNGI FROM A GLACIER FOREFIELD *Ivano Brunner, Birmensdorf - Switzerland*
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*	*15.00-15.30*	*COFFEE BREAK - Bar Pavilion 9*
BLOCK II 10.30-12.00	**S01.01b** **SOILS AND SEDIMENTS AS NATURAL ARCHIVES** *Chair Persons:* Claudio Zaccone, Foggia - Italy Sylvie Quideau, Edmonton - Canada	BLOCK IV 15.30-17.00	**S02.05b** **BIOLOGICAL WEATHERING AND CYCLING OF IRON, SILICON AND OTHER MAJOR AND TRANCE ELEMENTS IN SOIL** *Chair Persons:* Jacques Berthelin, Nancy - France Catherine Keller, Aix-Marseille - France
	S01.01b -1 BRANCHED TETRAETHER LIPIDS IN A FRENCH PEATLAND : APPLICATION TO THE RECONSTRUCTION OF PAST TEMPERATURES AND PH *Arnaud Huguet, Paris - France*		S02.05b -1 NUMERICAL MODELLING AND SIMULATION TO COUPLE MYCORRHIZAL WEATHERING AT SINGLE-HYPHA AND WHOLE-MYCELIUM SCALES *Jonathan Bridge, Sheffield - United Kingdom*
	S01.01b -2 NEW MULTI-PROXY APPROACH TO RECONSTRUCT VEGETATION DYNAMICS FROM TERRESTRIAL ARCHIVES IN THE ECUADORIAN ANDES *Boris Jansen, Amsterdam - Netherlands*		S02.05b -2 THE INFLUENCE OF DIFFERENT MINERALS ON THE GROWTH OF ECTOMYCORRHIZAL FUNGI *Christoffer Berner, Lund - Sweden*
	S01.01b -3 POTENTIAL OF 236U/238U AND 240PU/239PU ISOTOPIC RATIOS AS CHRONOLOGICAL MARKERS FOR PEAT BOGS COMPLEMENTING THE CLASSICAL 210PB METHOD *Francesca Quinto, Karlsruhe - Germany*		S02.05b -3 AGRICULTURAL SILICA HARVEST: A NEW LOOP IN THE TERRESTRIAL SILICA CYCLE? *Floor Vandevenne, Antwerp - Belgium*
	S01.01b -4 CARBON DISTRIBUTION ALONG THE PROFILE OF A COMPOST-AMENDED ANTHROPOGENIC SOIL: EVIDENCE FROM A CHRONOSEQUENCE STUDY *Daniel Said-Pullicino, Turin - Italy*		S02.05b -4 LONG-TERM REMOVAL OF WHEAT STRAW DECREASES SOIL AMORPHOUS SILICA AT BROADBALK WINTER WHEAT EXPERIMENT, ROTHAMSTED *Jean-Dominique Meunier, Aix-en-Provence - France*
	S01.01b -5 MULTI-SCALE APPROACH OF THE STRUCTURE EVOLUTION OF CONSTRUCTED TECHNOSOLS DURING EARLY PEDOGENESIS *Séré Geoffroy, Vandoeuvre-Lés-Nancy - France*		S02.05b -5 DEVELOPING A NEW METHOD TO MEASURE BIOGENIC SILICA IN TERRESTRIAL ECOSYSTEMS *Lucia Barao, Antwerp - Belgium*
	S01.01b -6 ZONAL SOIL PATTERN IN RELATION TO GLACIAL HISTORY OF THE RUSSIAN PLAIN *Alexander Makeev, Moscow - Russian Federation*		
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*		

SPECIAL EVENTS

18.30-20.00	**SC02** **GLOBAL SOIL INFORMATION FACILITIES - CONTRIBUTION FROM ISRIC WORLD SOIL INFORMATION** *Chair Persons*: Hannes I. Reuter, Wageningen - The Netherlands Tom Hengl, Wageningen - The Netherlands

WEDNESDAY 4 JULY 2012 - ROOM ALLORO - Pavilion 10

ORAL SESSIONS

BLOCK I 08.30-10.00	**S04.05a** **ASSESSING SOIL SYSTEMS AND FUNCTIONS BY MODELING INTERACTIVE PROCESSES** *Chair Person:* Jacques Diederik, Brussels - Belgium	BLOCK III 13.30-15.00	**S04.06** **CURRENT ISSUES AND APPLICATIONS OF SOIL MONITORING** *Chair Persons:* Dominique Arrouays, Paris - France Ben Marchant, Rothamsted - United Kingdom
	S04.05a -1 ROOT-MEDIATED MOBILIZATION OF SOIL PHOSPHATES: WHAT DID WE LEARN FROM MECHANISTIC MODELLING? *Frederic Gerard, Montpellier - France*		S04.06 -1 A HYBRID DESIGN-BASED AND MODEL-BASED SAMPLING APPROACH TO ESTIMATE THE TEMPORAL TREND OF SPATIAL MEANS OF SOIL PROPERTIES *Dick Brus, Wageningen - Netherlands*
	S04.05a -2 ARBUSCULAR MYCORRHIZA – CONNECTING CARBON AND PHOSPHOROUS DYNAMICS IN SOIL *Joachim Kleinmann, Leipzig - Germany*		S04.06 -2 THE VARIABILITY OF SOIL BULK DENSITY, AND ITS IMPLICATIONS FOR SOIL MONITORING *Murray Lark, Nottingham - United Kingdom*
	S04.05a -3 A THEORETICAL APPROACH TO PREDICTING SHIFTS IN PLANT-MYCORRHIZAL INTERACTIONS AND SOIL CARBON FEEDBACKS *Jessica A. M. Bryant, Knoxville - United States*		S04.06 -3 AN EFFICIENT DESIGN FOR MONITORING FOREST SOILS *Rock Ouimet, Quebec City - Canada*
	S04.05a -4 COMPARING MODELING APPROACHES FOR CLAY MIGRATION *Eric Michel, Avignon - France*		S04.06 -4 PEAT DROUGHT RISK IN A CHANGING CLIMATE *Laura Poggio, Aberdeen - United Kingdom*
	S04.05a -5 A 3D MULTI-SCALE VIRTUAL STRUCTURE TO MODEL AND SIMULATE CONCURRENT PROCESSES OF SOIL EVOLUTION *Sophie Leguédois, Nancy - France*		S04.06 -5 LONG-TERM SOIL MONITORING IN GERMANY: IDENTIFICATION OF TEMPORAL AND SPATIAL PATTERNS *Carsten Schilli, Wuppertal - Germany*
	S04.05a -6 A DUAL POROUS MODEL TO PREDICT THE EFFECTS OF SOIL STRUCTURE ON DENITRIFICATION AND N2O EMISSION *G.peter Matthews, Plymouth - United Kingdom*		S04.06 -6 MONITORING SOIL CARBON – IS THERE A RIGHT ANSWER? *Helaina Black, Aberdeen - United Kingdom*
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*	*15.00-15.30*	*COFFEE BREAK - Bar Pavilion 9*
BLOCK II 10.30-12.00	**S04.05b** **ASSESSING SOIL SYSTEMS AND FUNCTIONS BY MODELING INTERACTIVE PROCESSES** *Chair Person:* Helaina Black, Aberdeen - United Kingdom	BLOCK IV 15.30-17.00	**W05.01** **RECYCLING OF URBAN WASTE RESOURCES – POSITIVE AND NEGATIVE IMPACTS ON SOIL QUALITY AND THE ENVIRONMENT** *Chair Persons:* Jacob Magid, Copenhagen - Denmark Sabine Houot, Thiverval-Grignon - France
	S04.05b -1 MODELING CARBON DYNAMICS AND MCPA DEGRADATION AT THE SOIL-LITTER INTERFACE *Holger Pagel, Stuttgart - Germany*		W05.01 -1 LONG-TERM FIELD EXPERIMENTS EXAMINING SOIL AND CROP QUALITY AFTER SEWAGE SLUDGE APPLICATIONS *Steve Mcgrath, Harpenden - United Kingdom*
	S04.05b -2 BIOGEOCHEMICAL PROCESSES AND HOTSPOTS IN HETEROGENEOUS VADOSE ZONE *Binayak Mohanty, College Station - United States*		W05.01 -2 CRUCIAL: A LONG-TERM FIELD TRIAL TO ASSESS WASTE RECYCLING IMPACTS ON ENVIRONMENT AND PRODUCTIONS SYSTEM INTEGRITY *Jakob Magid, Copenhagen - Denmark*
	S04.05b -3 COMPARISON OF TWO MODELLING APPROACHES FOR WATER TRANSFER IN THE SOIL-VEGETATION-ATMOSPHERE CONTINUUM *Anaïs Guaus, Montpellier - France*		W05.01 -3 FATE OF TRACE ELEMENTS IN ARABLE CROP SYSTEMS AMENDED WITH URBAN COMPOSTS DURING 10 YEARS *Aurélia Michaud, Thiverval - Grignon - France*
	S04.05b -4 SCENARIO MODELLING OF ECOSYSTEM SERVICE PROVISION WITH A NEW SOIL MODEL (MOSES) *Matt Aitkenhead, Scotland - United Kingdom*		W05.01 -4 FATE OF HUMAN ENTERIC VIRUSES SUPPLIED WITH WASTEWATER IRRIGATION: A REVIEW *Pierre Renault, Avignon - France*
	S04.05b -5 LANDSCAPE DESIGN FOR SOIL CONSERVATION UNDER LAND USE AND CLIMATE CHANGE *Christian Walter, Rennes - France*		W05.01 -5 CHALLENGING AREAS FOR LIFE CYCLE ASSESSMENTS OF WASTE APPLICATION TO AGRICULTURAL LAND *Sander Bruun, Frederiksberg C - Denmark*
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*		W05.01 -6 CARBON CAPTURE BY CALCITE PRECIPITATION ON 'WASTES' IN URBAN SOILS *David Manning, Newcastle upon Tyne - United Kingdom*
			W05.01 -7 COMPLETE MATERIAL CYCLES BY MATERIAL FLOW MANAGEMENT USING THE TERRA-PRETA-TECHNOLOGY IN THE BOTANIC GARDEN BERLIN IN TERMS OF RESOURCE EFFICIENCY AND CLIMATE PROTECTION (TERRABOGA) *Robert Wagner, Berlin - Germany*
			W05.01 -8 EMERGENT POLLUTANT REMOVAL FROM SOIL AMENDMENTS *Isil Akmehmet Balcioglu, Istanbul - Turkey*
			W05.01 -9 PREDICTING CONSTRUCTED URBAN SOIL SUSTAINABILITY: IMPACT OF WASTE ORGANIC MATTER ON SOIL PHYSICAL PROPERTIES *Patrice Cannavo, Angers - France*

SPECIAL EVENTS

18.30-20.00	**R02** **SOIL SCIENCE: ARE WE FACING REAL NEEDS FROM SOCIETY?** *Chair Persons*: Johan Bouma, Wageningen - Netherlands Angelo Basile, Ercolano - Italy Fabio Terribile, Napoli - Italy

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ORAL SESSIONS

	S03.03 **FOREST FIRE EFFECTS ON SOIL SUSTAINABILITY** *Chair Persons:* Giacomo Certini, Firenze - Italy Jorge Mataix-Solera, Alicante - Spain		**S11.05** **NITROGEN TURNOVER AND GLOBAL CHANGE - INFLUENCE OF ECOSYSTEM DEVELOPMENT, CLIMATE, LAND USE AND XENOBIOTICS ON ABUNDANCE, DIVERSITY AND ACTIVITY OF SOIL MICROBIAL KEY PLAYERS** *Chair Persons:* Michael Schloter, Neuherberg - Germany Sven Marhan , Hohenheim - German
	S03.03 -1 FACTORS CONTROLLING THE QUALITY AND QUANTITY OF SOIL ORGANIC MATTER AFTER WILDFIRE *Cornelia Rumpel, Thiverval-Grignon - France*		S11.05 -1 EFFECTS OF MANURE-DERIVED VETERINARY ANTIBIOTICS SULFADIAZINE AND DIFLOXACIN ON MICROORGANISMS AND THE NITROGEN TURNOVER IN SOIL AND RHIZOSPHERE *Reimo Kindler, Berlin - Germany*
	S03.03 -2 CHEMICAL AND MICROBIOLOGICAL PROPERTIES OF SOILS FOLLOWING PRESCRIBED FIRE IN THE ROCKY MOUNTAINS *Cindy Prescott, Vancouver - Canada*		S11.05 -2 EFFECT OF NITRIFICATION INHIBITOR DCD ON AMMONIA OXIDISERS AND DENITRIFIERS IN GRASSLAND SOIL AMENDED WITH SLURRY *Fiona Brennan, Wexford - Ireland*
BLOCK I 08.30-10.00	S03.03 -3 TRACING WILDFIRE INTENSITY IN SOILS VIA MOLECULAR PROXIES *Guido Wiesenberg, Bayreuth - Germany*	BLOCK III 13.30-15.00	S11.05 -3 THE INFLUENCE OF CLIMATE CHANGE ON N-CYCLING MICROORGANISMS IN SOIL *Sven Marhan, Stuttgart - Germany*
	S03.03 -4 MODELING SOIL WATER REPELLENCY IN BURNT HILLSLOPES AND ITS CONSEQUENCES FOR RUNOFF AND SOIL EROSION *Joao Pedro Nunes, Aveiro - Portugal*		S11.05 -4 TEMPORAL EVOLUTION OF GROSS N MINERALIZATION AND NITRIFICATION RATES IN INTACT SOIL CORES IN A POPLAR PLANTATION FROM SOUTHERN GERMANY *Eugenio Díaz-Pinés, Garmisch-Partenkirchen - Germany*
	S03.03 -5 ASSESSING THE SIGNIFICANCE OF POST-WILDFIRE SOIL EROSION IN MEDITERRANEAN EUROPE *Richard Shakesby, Swansea - United Kingdom*		S11.05 -5 GROWTH OF ECTOMYCORRHIZAL FUNGI ALONG A BOREAL FOREST NITROGEN DEPOSITION GRADIENT AND ITS EFFECT ON NITROGEN LEAKAGE *Adam Bahr, Lund - Sweden*
	S03.03 -6 SOIL AS A CARBON STORE: STOCKS AND RECALCITRANCE IN FIRE-AFFECTED AUSTRALIAN FOREST SOILS *Stefan Doerr, Swansea - United Kingdom*		S11.05 -6 WETLAND MANAGEMENT: MICROBIAL COMPOSITION AND STRUCTURE IN A PEATLAND SECONDARY SUCCESSION *Elisa Pellegrino, Pisa - Italy*
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*	*15.00-15.30*	*COFFEE BREAK - Bar Pavilion 9*
	W03.01 **SOIL DEGRADATION IN THE MEDITERRANEAN: A NEVER ENDING STORY THAT STILL NEEDS SOLUTIONS** *Chair Persons:* Pandi Zdruli, Bari - Italy Nicola Lamaddalena, Bari - Italy Antonio Coppola, Potenza - Italy		**S11.06** **BIOGEOGRAPHY OF SOIL MICROORGANISMS - Sponsored by IUSS** *Chair Persons:* Ellen Kandeler, Hohenheim - Germany Naoise Nunan, Thiverval-Grignon - France
	W03.01 -1 A SOIL EROSION MAP FOR THE MEDITERRANEAN BASIN, CURRENT AND FUTURE TRENDS *Yves Le Bissonnais, Montpellier - France*		S11.06 -1 PRECIPITATION PATTERNS IN SEMI-ARID ECOSYSTEMS SHAPE SOIL MICROBIAL ASSEMBLAGES AND THEIR RESPONSE TO WET UP EVENTS *Mary Firestone, Berkeley, CA - United States - Invited*
	W03.01 -2 ENVIRONMENTALLY SENSITIVE AREAS TO DESERTIFICATION IN GREECE *Mina Karamesouti, Athens - Greece*		S11.06 -2 PORE-SCALE MICROBIAL BIOGEOGRAPHY *Claire Chenu, Paris - France*
BLOCK II 10.30-12.00	W03.01 -3 KNOWLEDGE OF SOIL WATER BALANCE OF MEDITERRANEAN KARST OF BOSNIA AND HERZEGOVINA IN THE FUNCTION OF WATER CONSERVATION AND PROTECTION FROM EROSION *Hamid Custovic, Sarajevo - Bosnia and Herzegovina*	BLOCK IV 15.30-17.00	S11.06 -3 'MICROBIAL LOGISTICS' - MYCELIA AS NETWORKS FOR FUNCTIONAL DISPERSAL OF BACTERIA AND CHEMICALS IN SOIL *Lukas Yvo Wick, Leipzig - Germany*
	W03.01 -4 DEGRADATION OF ARABLE LANDS BY URBAN SPRAWL IN LEBANON *Darwish Talal, Beirut - Lebanon*		S11.06 -4 BACTERIAL BIOGEOGRAPHY IN TWO FUNCTIONALLY CONTRASTING RHIZOSPHERES - NITROGEN-FIXING MEDICAGO TRUNCATULA AND ECTOMYCORRHIZAL PINUS PINASTER *Georg Carlsson, Alnarp - Sweden*
	W03.01 -5 EFFECTS OF THE RESTORATION ACTIONS TO COMBAT DESERTIFICATION ON SOILS. THE PRACTICE PROJECT STUDY SITE IN PULA (SARDINIA, ITALY) *Claudio Zucca, Sassari - Italy*		S11.06 -5 UNDERSTANDING SOIL MICROBIAL COMMUNITY SPATIAL PATTERNS AT MULTIPLE SCALES BY FOCUSING ON HABITAT PATCHES IN THE LANDSCAPE *Christopher Blackwood, Kent - United States - Invited*
	W03.01 -6 INDICATORS OF SOIL AND SEDIMENT LOSS ON A SMALL, DENSELY POPULATED ISLAND: A CASE STUDY OF MALTA *Avertano Role, Msida - Malta*		S11.06 -6 SPATIAL PROCESSES DRIVING SOIL MICROBIAL COMMUNITY ASSEMBLY ON A WIDE SCALE *Nicolas Chemidlin Prévost-Bouré, Dijon - France*
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*		S11.06 -7 SOIL BACTERIAL BIOGEOGRAPHY - WHERE DOES THE MAP LEAD US? *Bruce Thomson, Wallingford - United Kingdom*

SPECIAL EVENTS

18.30-20.00	**R03** **SOIL CONSERVATION POLICIES IN EUROPE: A DISCUSSION OF DIFFERENT IMPLEMENTATION STRATEGIES AND POLICY OPTIONS** *Chair Persons*: Nina Hagemann, Leipzig - Germany Katrin Prager, Aberdeen - United Kingdom

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POSTER SESSIONS

	S01.04-P **SOIL RESEARCH FOR EUROPEAN CITIES**
	S01.04-P -1 BRICKS IN URBAN SOILS *Thomas Nehls, Berlin - Germany*
	S01.04-P -2 CONTAMINATION AND TRANSFORMATION OF TOPSOIL HORIZONS IN URBAN PARKS ON THE BASIS OF MAGNETIC SUSCEPTIBILITY MEASUREMENTS *Adam Lukasik, Zabrze - Poland*
	S01.04-P -3 HEAVY METALS CONTENT IN EDIFISOLS - SOILS FORMING ON THE BUILDINGS *Charzynski Przemyslaw, Torun - Poland*
	S01.04-P -4 HOW TO RECYCLE WASTES FOR SOIL CONSTRUCTION IN URBAN AREAS ? *Sarah Rokia, Vandoeuvre-lès-Nancy - France*
	S01.04-P -5 HYDRAULIC PROPERTIES AND AIR SUPPLY IN CEMETERY SOILS *Iris Maria Zimmermann, Kiel - Germany*
	S01.04-P -6 LET'S CULTIVATE OUR TOWN! INCREASING CITIZEN AWARENESS OF FOOD AND THE ENVIRONMENT THROUGH ORGANIC CULTIVATION OF ALLOTMENTS *Francesca Bretzel, Pisa - Italy*
	S01.04-P -7 MANAGING THE FUNCTIONALITY OF ANTHROPGENIC SOILS *Andreas Lehmann, Stuttgart - Germany*
	S01.04-P -8 NEW DIAGNOSTIC CRITERIA FOR ANTHROPOGENIC SOIL CLASSIFICATION IN SLOVAKIA *Jaroslava Sobocka, Bratislava - Slovakia*
	S01.04-P -9 POLLUTED SOILS IN CLOSE CONTACT WITH URBAN POPULATION OF A SEMI-ARID REGION, EXAMPLE CITY OF TEHERAN *Mohammad Baharvand, Essen - Germany*
	S01.04-P -10 SOIL ORGANIC CARBON STORAGE IN URBAN AREAS: UNDERESTIMATION OF STOCKS AND VARIATION AT A REGIONAL SCALE *Jill Edmondson, Sheffield - United Kingdom*
	S01.04-P -11 SUBSURFACE URBAN HEAT ISLAND INVESTIGATIONS IN OBERHAUSEN, GERMANY *Helene Püllen, Essen - Germany*
17.00-18.30	S01.04-P -12 TYPES, AMOUNT AND POTENTIAL OF URBAN SOILS FOR ORGANIC MATTER ACCUMULATION *Wolfgang Burghardt, Essen - Germany*
	S01.04-P -13 WHAT POTENTIAL OF BY-PRODUCTS FOR AGRONOMIC USE IN URBAN AREAS? *Sarah Rokia, Vandoeuvre les Nancy - France*
	S03.03-P **FOREST FIRE EFFECTS ON SOIL SUSTAINABILITY**
	S03.03-P -1 ACCUMULATION OF PYROGENIC POLYCYCLIC AROMATIC HYDROCARBONS IN FIRE-AFFECTED SOILS *Anna Tsibart, Moscow - Russian Federation*
	S03.03-P -2 AGING OF CHARCOAL IN FIRE-PRONE MINERAL SOILS OF SOUTHERN EUROPE *Heike Knicker, Sevilla - Spain*
	S03.03-P -3 ASSESSING SOIL WATER REPELLENCY AND ITS EFFECT ON SOIL EROSION IN BURNT PINE AND EUCALYPT STANDS IN NORTH-CENTRAL PORTUGAL *Diana Vieira, Aveiro - Portugal*
	S03.03-P -4 CATASTROPHIC WILDFIRES IN RUSSIA AT THE 2010 SUMMER AND ITS AFFECT ON SOILS OF FOREST-STEPPE ECOSYSTEMS *Ekaterina Maximova, Saint-Petersburg - Russian Federation*
	S03.03-P -5 EFFECTS OF FIRE HEATING ON A MEDITERRANEAN ULTISOL QUALITY AND ON CO2 EMISSION. A LABORATORY STUDY *Ignacio Mariscal-Sancho, Madrid - Spain*
	S03.03-P -6 FIRECNUTS - WILDFIRE EFFECTS ON CARBON AND NUTRIENT LOSSES BY RUNOFF *Silvia Regina Faria, Aveiro - Portugal*
	S03.03-P -7 FOREST FIRES AND SOIL EROSION IN EASTERN SPAIN *Artemi Cerdà, Valencia - Spain*
	S03.03-P -8 HOW LONG LASTS SOIL LOSS AFTER REPEATED FIRES IN A MEDITERRANEAN SHRUBLAND? *Eugenia Gimeno-Garcia, Moncada, Valencia - Spain*
	S03.03-P -9 KEY SOIL PROPERTIES CONTROLLING OCCURRENCE AND PERSISTENCE OF WATER REPELLENCY AFTER BURNING *Jorge Mataix-Solera, Elche, Alicante - Spain*
	S03.03-P -10 MEFIDIS CALIBRATION FOR POST-FIRE EROSION AT THE MICRO-PLOT SCALE UNDER SIMULATED RAINFALL IN EUCALYPT PLANTATIONS IN NORTH-CENTRAL PORTUGAL *Diana Vieira, Aveiro - Portugal*

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POSTER SESSIONS

	S03.03-P -11 PROBABILITIES OF WATER REPELLENCY OCCURRENCE AND PERSISTENCE IN MEDITERRANEAN FORESTS AFFECTED BY WILDFIRES *Merche B. Bodí, València - Spain*
	S03.03-P -12 QUALITY AND QUANTITY OF ERODED SEDIMENT FOLLOWING PRESCRIBED FIRE IN VALE TORTO CATCHMENT, CENTRAL PORTUGAL *Emilia Urbanek, Swansea - United Kingdom*
	S03.03-P -13 SHORT AND MID-TERM POST-FIRE EVOLUTION OF SOIL MICRO-FUNGI IN A MEDITERRANEAN FOREST *Giovanni Mastrolonardo, Firenze - Italy*
	S03.03-P -14 SOIL DEGRADATION AFTER FIRE ON AN ALPINE FOREST SOILS IN THE UPPER RHONE VALLEY, SWITZERLAND *Nikolaus J. Kuhn, Basel - Switzerland*
	S03.03-P -15 SOIL MICROMORPHOLOGY, SLOPE POSITION AND ASH COLOR IMPLICATIONS ON ASH THICKNESS IN THE IMMEDIATE PERIOD AFTER A GRASSLAND FIRE IN LITHUANIA (NORTH-EASTHERN EUROPE) *Jorge Mataix-Solera, Elche - Spain*
	S03.03-P -16 SOLID-STATE 15N NMR SPECTROSCOPY AS A TOOL TO INVESTIGATE ORGANIC N-PARTITIONING IN FIRE-AFFECTED SOILS *María López Martín, Sevilla - Spain*
	S03.03-P -17 SPRING GRASSLAND FIRE EFFECTS ON SOIL ORGANIC MATTER, SOIL MOISTURE AND SOIL WATER REPELLENCY IN LITHUANIA (NORTH-EASTERN EUROPE). FIRST RESULTS *Jorge Mataix-Solera, Elche - Spain*
	S04.05-P **ASSESSING SOIL SYSTEMS AND FUNCTIONS BY MODELING INTERACTIVE PROCESSES**
	S04.05-P -1 A GIS-BASED LAND SUITABILITY ASSESSMENT FOR AGRICULTURAL PLANNING IN KILTE AWULAELO DISTRICT, ETHIOPIA *Ahmed Harb Rabia, Damanhur - Elbehera - Egypt*
	S04.05-P -2 APPLYING MODFLOW MODEL AND GIS TOOLS TO ASSESS SOIL SALINITY HAZARD IN JEZRE'EL VALLEY, ISRAEL *Vladimir Mirlas, Emek-Hefer - Israel*
	S04.05-P -3 COMBINING LYSIMETER EXPERIMENTS AND MODELING TOOLS TO DELINEATE PARAMETER CONSTRAINTS FOR MODELS OF FLOW, TRANSPORT, AND BIODEGRADATION OF DEICING CHEMICALS *Heidi Lissner, Jena - Germany*
	S04.05-P -4 DETERMINATION OF LAND PRODUCTIVITY INDEX BASED ON PARAMETRIC APPROACH USING GIS TECHNIQUE *Orhan Dengiz, Samsun - Turkey*
	S04.05-P -5 FIELD MONITORING AND SAMPLING OF INFILTRATED SOIL WATER UNDER ON-SITE TREATMENT SYSTEMS: EVALUATION OF SOIL FUNCTIONS AND ENVIRONMENTAL RISK *Behzad Nasri, Paris - France*
17.00-18.30	S04.05-P -6 GEOCHEMICAL MODELING OF 226RA TRANSPORT IN PHOSPHOGYPSUM PILES *Diederik Jacques, Mol - Belgium*
	S04.05-P -7 INTEGRATING SOIL QUALITY ASSESSMENT INTO ECONOMIC AND ECOLOGICAL VALUATION OF LAND-USE IN THE TROPICAL MOUNTAIN RAINFOREST REGION OF SOUTH ECUADOR *Ute Hamer, Dresden - Germany*
	S04.05-P -8 KINETIC STUDY OF PHOSPHORUS SORPTION IN PREFERENTIAL FLOW PATHS AND SOIL MATRIX OF A BOREAL FORESTED TILL SOIL SLOPE *Soile Backnäs, Kuopio - Finland*
	S04.05-P -9 MODELLING AND OPTIMIZATION OF THE INFLUENCE OF SOME TRACE ELEMENTS AND MINERAL COMPOSITION IN SOIL AND DIFFERENT PARTS OF THE ARGAN TREES *Rahma Bchitou, Rabat - Morocco*
	S04.05-P -10 MODELLING SOIL THERMAL DIFFUSIVITY RESPONSE TO CHANGES IN MOISTURE CONTENT FOR SOILS OF DIFFERENT TEXTURE CLASSES *Tatiana Arkhangelskaya, Moscow - Russian Federation*
	S04.05-P -11 MULTICOMPONENT TRANSPORT OF 226RA IN AGRICULTURAL SOILS FOLLOWING THE APPLICATION OF PHOSPHOGYPSUM *Jacques Diederik, Mol - Belgium*
	S04.05-P -12 MULTICOMPONENT VARIABLY-SATURATED TRANSPORT MODEL HP1 WITH ACTIVE NUTRIENT UPTAKE BY PLANT ROOTS *Tom Groenveld, Boquer - Israel*
	S04.05-P -13 MULTI-ISOTOPIC APPROACH FOR TRACING VERTICAL MATTER TRANSFERS IN SOIL *Marianna Jagercikova, Aix en Provence - France*
	S04.05-P -14 NEW DEVELOPMENTS IN THE HP1 REACTIVE TRANSPORT CODE: EXTENSIONS TO TWO- AND THREE-DIMENSIONAL FLOW AND TRANSPORT PROBLEMS *Jacques Diederik, Mol - Belgium*
	S04.05-P -15 NONPARAMETRIC UNCERTAINTY ANALYSIS IN FIELD SCALE APPLICATION OF EXTENDED SORPTION ISOTHERMS *Levke Godbersen, Hannover - Germany*
	S04.05-P -16 PORE SPACE EXPLORATION OF NATURAL SOILS BY NUCLEAR MAGNETIC RESONANCE RELAXATION *Markus Duschl, Jülich - Germany*
	S04.05-P -17 SAGA LEM - A GIS MODEL TO PREDICT PARENT MATERIAL PROPERTIES OF SOIL *Michael Bock, Hamburg - Germany*
	S04.05-P -18 SOIL C CHANGE AND GHG EMISSIONS AFTER LAND USE CHANGE TO BIOENERGY CROPS *Marta Dondini, Aberdeen - United Kingdom*
	S04.05-P -19 STATISTICS IN THE CLOUD: ONLINE TOOLS FOR STANDARDIZED ANALYSIS OF GEOCHEMICAL AND SPECTROSCOPIC DATA OF ENVIRONMENTAL ARCHIVES *Luis Rodriguez Lado, Santiago de Compostela - Spain*

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17.00-18.30	S04.05-P -20 THE INFLUENCE OF BIODIVERSITY ON NO3-N CONCENTRATION IN SOIL SOLUTION: A BAYESIAN MODEL *Sophia Leimer, Bern - Switzerland*
	S04.05-P -21 VALIDATION OF APSIM'S ESTIMATES OF CARBON MINERALISATION UNDER DIFFERING LAND USES *Joanna Sharp, Christchurch - New Zealand*
	S04.05-P -22 WATER FLOW AND SOLUTE TRANSPORT MODELLING IN SOIL AT KOSNICA SITE *Stanko Ruzicic, Zagreb - Croatia*
	S11.02-P **SOIL BIODIVERSITY AND ECOSYSTEM SERVICES**
	S11.02-P -1 A STUDY ON THE RELATIONSHIPS BETWEEN SOIL MESOFAUNA AND SCLEROTIA IN LOW PH FOREST SOILS OF JAPAN *Anzilni Fathia Amasya, Hachioji - Japan*
	S11.02-P -2 ARBUSCULAR MYCORRHIZAL FUNGAL COMMUNITIES IN THE HYPOXIC SOILS OF NATURAL CO2 SPRINGS *Nataša Šibanc, Ljubljana - Slovenia*
	S11.02-P -3 BIOCHEMICAL POTENTIAL AND MOLECULAR IDENTIFICATION OF MICROORGANISMS ISOLATED FROM SOIL AND DIFFERENT ORGANIC WASTES *Karolina Oszust, Lublin - Poland*
	S11.02-P -4 COMMUNITY STRUCTURE OF SOIL NEMATODES IN SOYBEAN AND CORN FIELDS UNDER LONG-TERM CROP ROTATION SYSTEM *Fengjuan Pan, Harbin - China*
	S11.02-P -5 DEVELOPMENT OF A TARGETED PROTEOMICS APPROACH FOR MEASUREMENT OF GLYCOSIDE HYDROLASE FUNCTIONAL REDUNDANCY IN SOILS *Stephen Callister, Richland, WA - United States*
	S11.02-P -6 EARTHWORM AND COVER CROPS CONTRIBUTION TO ENHANCE SOIL ORGANIC MATTER IN NOTILLAGE SOYBEAN PRODUCTION IN JAPAN *Masakazu Komatsuzaki, Ibaraki - Japan*
	S11.02-P -7 EFFECT OF LARGE SCALE PRODUCTION OF ENERGY CROPS ON FUNGAL COMMUNITY IN TOPSOIL LAYER *Petr Hedenec, Ceské Budejovice - Czech Republic*
	S11.02-P -8 EFFECT OF RAINFALL-INDUCED SOIL GEOCHEMISTRY DYNAMICS ON GRASSLAND SOIL MICROBIAL COMMUNITIES *Karelyn Cruz-Martinez, Berkeley - United States*
	S11.02-P -9 EFFECTS OF CONSERVATIVE PRACTICES ON BACTERIAL DIVERSITY AND DENITRIFYING GENES EXPRESSION IN INTENSIVE AGRICULTURE *Roberta Pastorelli, Bologna - Italy*
	S11.02-P -10 EFFECTS OF OLIVE OIL PRODUCTION WASTEWATER ON SOIL ARTHROPODS IN TWO DIFFERENT CULTIVATION SCENARIOS IN ISRAEL AND PALESTINE *Markus Kurtz, Landau - Germany*
	S11.02-P -11 EXPLORING THE CADMIUM "SYMPATHIZER" BACTERIA THROUGH A SOIL METAGENOME APPROACH *Maria Teresa Ceccherini, Firenze - Italy*
	S11.02-P -12 GENOME SEQUENCING OF TWO EXOELECTROGENIC BACTERIA ISOLATED FROM SOIL AND ASSESSMENT OF THEIR METABOLIC PROFILE BY MEANS OF PHENOTYPE MICROARRAYS *Stefano Mocali, Firenze - Italy*
	S11.02-P -13 GENOMIC AND TRANSCRIPTOMIC TOOLS TO REVEAL THE IMPACT OF LAND USE ON BACTERIAL GLUCOSIDASE DIVERSITY AND EXPRESSION *Emilio Benitez, Granada - Spain*
	S11.02-P -14 GLOMALIN-RELATED SOIL PROTEIN AND ITS IMPORTANCE IN ALUMINIUM EXCLUSION MECHANISM OF PLANTS GROWING IN ACID SOILS *Alex Seguel , Temuco - Chile*
	S11.02-P -15 GRASSLAND DIVERSITY RESTORATION ON EX-ARABLE LAND BY SOIL INOCULATIONS *De Deyn Gerlinde B., Wageningen - Netherlands*
	S11.02-P -16 IMPACT OF DIFFERENT LAND USES ON SOIL BIOLOGICAL AND BIOCHEMICAL PROPERTIES: SALIX SHORT ROTATION COPPICE COMPARED WITH INTENSIVE AGRICULTURAL SYSTEM, GRASS STRIPS AND ALLUVIAL FOREST *Marie Stauffer, Vandoeuvre-les-Nancy - France*
	S11.02-P -17 ISOLATION, IDENTIFICATION AND SCREENING OF CELLULOLYTIC MICROORGANISMS FROM SOIL AND ORGANIC WASTE *Magdalena Frąc, Lublin - Poland*
	S11.02-P -18 LITHOLOGICAL CONTROL ON SOIL CHEMISTRY AND MICROBIAL DIVERSITY *Nicola Ashton, Manchester - United Kingdom*
	S11.02-P -19 MICROARTHROPOD AND CILIATED PROTOZOA SOIL COMMUNITIES IN SIX CENTRAL ITALIAN BEECH FORESTS *Cristina Menta, Parma - Italy*
	S11.02-P -20 NEMATOFAUNA STUDY FOR SOIL MONITORING, RISK ASSESSMENT AND SOIL CHARACTERIZATION. RESULTS FROM THE FRENCH NATIONAL "BIOINDICATORS PROGRAMME" *Cecile Villenave, Montpelllier - France*

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POSTER SESSIONS

	S11.02-P -21 PLFA EXTRACTION – PROBLEMS ASSOCIATED WITH THE PREPARATION OF SOIL SAMPLES WITH UNKNOWN WATER CONTENT AND THE EFFECT OF FREEZE DRYING *Andrea Watzinger, Tulln - Austria*
	S11.02-P -22 PRELIMINARY INVESTIGATION ON THE MICROBIAL AND GENETIC SOIL DIVERSITY: EFFECT OF PEDOGENIC SUBSTRATE *Loredana Canfora, Roma - Italy*
	S11.02-P -23 QUANTIFYING CARBON ROUTING FROM MAIZE INTO BACTERIAL AND FUNGAL BIOMASS IN AN AGRO-ECOSYSTEM *Ellen Kandeler, Stuttgart - Germany*
	S11.02-P -24 RESIDUAL EFFECT OF DE-OILED OLIVE MILL WASTE AMENDMENT ON ENZYME ACTIVITIES IN A DEGRADED MEDITERRANEAN SOIL UNDER FIELD CONDITIONS *Antonio López Piñeiro, Badajoz - Spain*
	S11.02-P -25 SEARCHING FOR MICROBIAL INDICATORS OF SOIL STABILITY AGAINST REPEATED HEAVY METAL CONTAMINATION EVENTS *Aritz Burges, Derio - Spain*
	S11.02-P -26 SHORT AND LONG TERM EFFECTS OF IRRIGATION WITH TREATED WASTEWATER ON SOIL MICROBIAL COMMUNITY STRUCTURE AND FUNCTION *Dror Minz, Bet Dagan - Israel*
	S11.02-P -27 SIGNIFICANCE OF ABIOTIC AND BIOTIC PARAMETERS ACROSS MICRO- AND MACRO-NICHE GRADIENTS. THE SPECIAL CASE OF GYPSUM DOMINATED SOILS *Adrian Unc, Las Cruces, New Mexico - United States*
	S11.02-P -28 SOIL AND CROP RESPONSES IN LEGUME/BARLEY INTERCROPPED SYSTEMS *Antonio Gelsomino, Reggio Calabria - Italy*
	S11.02-P -29 SOIL COMPACTION IN TEMPERATE FOREST SOILS INDUCES METHANOGENIC ARCHAEA AND METHANE EMISSIONS *Beat Frey, Birmensdorf - Switzerland*
	S11.02-P -30 SOIL ENZYMOMICS: WHAT CAN BE DONE NOWADAYS? *Flavio Fornasier, Gorizia - Italy*
	S11.02-P -31 SOIL FAUNA AS A FOREST SOIL QUALITY INDEX *Ewa Blonska, Krakow - Poland*
17.00-18.30	S11.02-P -32 SOIL FUNCTIONAL DIVERSITY: DO CLPP AND ENZYMES TARGET THE SAME MICROBIAL PROCESSES? *M. Cristina Moscatelli, Viterbo - Italy*
	S11.02-P -33 SOIL PROTEOMICS: INTERFERENCE OF SOIL SOLID PHASES ASSESSED BY MODEL STUDIES *Giancarlo Renella, Florence - Italy*
	S11.02-P -34 SPATIO-TEMPORAL CHANGES OF SOIL ALGAE AND ITS REFLECTION BY VIS-NIR SPECTROSCOPY OF THE SOIL *Marie I. Ludwig, Trier - Germany*
	S11.02-P -35 STRESS TOLERANCE ASSAYS AND GENETIC DIVERSITY OF SINORHIZOBIUM MELILOTI FIELD POPULATION *Sanja Sikora, Zagreb - Croatia*
	S11.02-P -36 THE EFFECT OF FERTILIZER ON THE ABUNDANCE AND DIVERSITY OF FUSARIUM SPP. IN SOYBEAN FIELD *Xu Yanli, Harbin - China*
	S11.02-P -37 THE FATE AND ECOLOGICAL RELEVANCE OF EXTRACELLULAR DNA IN SOIL *Giacomo Pietramellara, Florence - Italy*
	S11.02-P -38 UNRAVELLING SOIL FUNGAL COMMUNITIES FROM DIFFERENT MEDITERRANEAN LAND-USE BACKGROUNDS *Erica Lumini, Torino - Italy*
	S11.06-P **BIOGEOGRAPHY OF SOIL MICROORGANISMS - Sponsored by IUSS**
	S11.06-P -1 BIOGEOGRAPHICAL EVALUATION OF ARID ZONE SOILS' MICROBIAL FUNCTIONAL AND GENETIC DIVERSITIES; ROLE OF CLIMATE, VASCULAR PLANT SPECIES, AND DISTURBANCE INDUCED VARIABILITY *Adrian Unc, Las Cruces, New Mexico - United States*
	S11.06-P -2 BIOLOGICAL INDICES – AN OBLIGATORY COMPONENT IN THE CREATION OF THE INFORMATIONAL SOIL-GEOGRAPHICAL DATABASE *Maharram Babayev, Baku - Azerbaijan*
	S11.06-P -3 COMPOSITION OF SOIL BACTERIAL COMMUNITIES IN THE RHIZOSPHERE OF SOILS DERIVED FROM DIFFERENT LAND-USE TYPES *Sarah Herzog, Goettingen - Germany*
	S11.06-P -4 DISTRIBUTION AND DIVERSITY OF PROTISTS IN GRASSLANDS *Antonis Chatzinotas, Leipzig - Germany*
	S11.06-P -5 EFFECT OF SPATIAL CONNECTION VS DISCONNECTION BETWEEN SOIL MICROORGANISMS AND 2,4-D ON THE 2,4-D BIODEGRADATION *Marc Pinheiro, Thiverval Grignon - France*

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POSTER SESSIONS

	S11.06-P -6 HOT SPOTS OF MICROBIAL BIOMASS AND EXTRACELLULAR ENZYME ACTIVITY ON THE MILLIMETRE SCALE IN ISRAELI SOILS IRRIGATED WITH TREATED WASTEWATER *Stefanie Heinze, Bochum - Germany*
	S11.06-P -7 IMPORTANCE OF SOIL ORGANIC CARBON AND MINERAL PARTICLE SIZE FRACTIONS FOR MICROBIAL DIVERSITY *Michael Hemkemeyer, Braunschweig - Germany*
	S11.06-P -8 INVESTIGATING SOIL RISK FACTORS FOR PARATUBERCULOSIS IN SCOTTISH CATTLE FARMING *Rupert Hough, Aberdeen - United Kingdom*
	S11.06-P -9 IS THERE A MICROBIAL SUB ALPHA-DIVERSITY AT SOIL MICROSCALE? *Florentin Constancias, Dijon - France*
	S11.06-P -10 LANDSCAPE-SCALE HETEROGENEITY OF SOIL MICROBIAL INDICES AND ENZYME-LABILE SOIL PHOSPHORUS DISTRIBUTION IN TYPIC AND AQUIC HAPLUDULTS *Thanh H. Dao, Beltsville, Maryland - United States*
	S11.06-P -11 PROKARYOTIC DIVERSITY PATTERNS IN GERMAN SOIL SAMPLES *Christiane Fischer, Goettingen - Germany*
	S11.06-P -12 SOIL MICROBIAL COMMUNITIES IN GRASSLANDS – SPATIAL AND TEMPORAL PATTERNS AT THE LOCAL SCALE *Kathleen Regan, Stuttgart - Germany*
	S11.06-P -13 SPATIAL AND SEASONAL VARIABILITY OF ENZYME ACTIVITIES IN THE TOP- AND SUBSOIL OF A FORESTED CAMBISOL *Bernd Marschner, Bochum - Germany*
	S11.06-P -14 SPATIAL VARIATIONS OF MICROBIAL COMMUNITY STRUCTURE AND SOIL C TURNOVER ALONG A TRANSITION FROM A FORESTED TO A CLEAR CUT SITE *Carolyn Churchland, Vancouver - Canada*
	S11.06-P -15 THE ROLE OF ARCHAEA IN THE TURNOVER OF ROOT AND MYCORRHIZAL EXUDATES IN SOIL *Anna Karlsson, Lund - Sweden*
	S12.02-P **EMERGING ORGANIC POLLUTANTS - FROM THE WASTEWATER TREATMENT FACILITY TO THE AGRICULTURAL FIELD**
17.00-18.30	S12.02-P -1 DISTRIBUTION OF A PROTEAN BIOPOLYMER APPLIED ON AGRICULTURAL DEGRADATED SOILS AS STRUCTURAL CONDITIONER *Alina Gherghina, Bucharest - Romania*
	S12.02-P -2 EFFECTS OF CARBON BASED NANOPARTICLES ON THE BIOAVAILABILITY OF THE SYNTHETIC 17?-ETHINYLESTRADIOL (EE2) IN SOIL SOLUTION *Britta Stumpe, Bochum - Germany*
	S12.02-P -3 END-O-SLUDG (MARKETABLE SLUDGE DERIVATIVES FROM SUSTAINABLE PROCESSING OF WASTEWATER IN A HIGHLY INTEGRATED TREATMENT PLANT) *Bryan Griffiths, Wexford - Ireland*
	S12.02-P -4 KINETICS OF MODULARLY FUNCTIONALIZED ANATASE NANOPARTICLE ATTACHMENT TO HUMIC ACIDS *Kurt Jacobson, Madison - United States*
	S12.02-P -5 WASTEWATER FROM OLIVE OIL MILLS IN ISRAEL AND PALESTINE: SHORT AND LONG-TERM EFFECTS ON SOIL PROPERTIES *Benjamin Peikert, Landau - Germany*
	S12.02-P -6 MOBILE INTEGRATED SYSTEM FOR TREATMENT OF ORGANIC WASTEWATER *Iggy Litaor, Kiryat Shemona - Israel*
	S12.02-P -7 MODIFIED ZEOLITE FOR SOIL MIX TECHNOLOGY PERMEABLE REACTIVE BARRIERS *Zhenzhen Wang, Cambridge - United Kingdom*
	S12.02-P -8 OLIVE OIL PRODUCTION WASTEWATER (OPWW) DISPOSAL: THE EFFECT ON SOIL SORPTIVE ABILITY TOWARDS ORGANIC COMPOUNDS *Yonatan Keren, Bet Dagan - Israel*
	S12.02-P -9 THE CHANGE OF WATER AND NAPL RETENTION OF SOILS AFTER CATIONIC SURFACTANT PRETREATMENTS *Tunde Csatari, Keszthely - Hungary*
	S12.02-P -10 TRANSFORMATION AND BOUND RESIDUE FORMATION OF 4-NONYLPHENOL IN SOIL *Rong Ji, Nanjing - China*
	S12.02-P -11 TRANSFORMATION OF IBUPROFEN INTO BIOGENIC NON-EXTRACTABLE RESIDUES IN SLUDGE AMENDED SOIL *Karolina Nowak, Leipzig - Germany*
	S12.02-P -12 MICROBIAL POLLUTION OF SOME VEGETABLES IRRIGATED WITH UNTREATED MUNICIPAL WASTEWATER IN HAMEDAN, (IRAN) *Ali Akbar Safari Sinegani, Hamedan - Iran, Islamic Republic of*

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POSTER SESSIONS

	S01.01-P **SOILS AND SEDIMENTS AS NATURAL ARCHIVES**
	S01.01-P -1 ASSESSING BIOCHEMICAL AND BIOMOLECULAR GRADIENTS ALONG AN OMBROTROPHIC PEAT BOG PROFILE *Edoardo Puglisi, Piacenza - Italy*
	S01.01-P -2 CLIMATIC RECONSTRUCTIONS AND ENVIRONMENTAL CHANGES RECORDED IN PEAT BOGS IN THE NORTH-EASTERN ITALIAN ALPS DURING THE HOLOCENE *Luisa Poto, Venice - Italy*
	S01.01-P -3 COMPLEX PEDOGENESIS IN THE EOPLEISTOCENE PALEOPEDOCOMPLEX OF THE NORTHERN CISCAUCASIA: POLYGENETIC MODELS *Ilya Shorkunov, Moscow - Russian Federation*
	S01.01-P -4 CONFRONTATION OF CARBONATE BEDROCK WITH POLYGENIC ALLOCHTONOUS MATERIAL: WHICH PARENT MATERIAL PREVAILS IN SOIL EVOLUTION? *Loraine Martignier, Lausanne - Switzerland*
	S01.01-P -5 CORRESPONDENCE BETWEEN VERTICAL PROFILE OF SOIL COMPACTNESS AND INTENSITY OF LAND GRADING PROCESS IN URBAN GREEN PARKS, TOKYO METROPOLIS *Natsuko Uoi, Tokyo - Japan*
	S01.01-P -6 DOES SPECIFIC PEDOGENESIS OCCUR IN TECHNOSOLS DEVELOPING ON IRON INDUSTRY WASTES DEPOSITS? *Hermine Huot, Vandoeuvre-lès-Nancy - France*
	S01.01-P -7 EFFECTS OF THE ADDITION OF ALKALI-SOLUBLE ORGANIC MATTER EXTRACTS FROM TWO COMPOSTS MADE FROM OLIVE MILL WASTE ON CHEMICAL PROPERTIES OF A CALCAREOUS SOIL *Inmaculada Bautista Carrascosa, Valencia - Spain*
	S01.01-P -8 ENHANCED GROWTH OF CORN AND IMPROVEMENT OF SOIL QUALITY ON THE APPLICATIONS OF CLAY MINERALS TO SOIL *Sangseung Lee, Eum Seong Gun - Korea, Republic of*
	S01.01-P -9 ENHANCED GROWTH OF RED PEPPER BY THE APPLICATIONS OF CLAY MINERALS TO THE BED SOIL AND PROTEOMIC ANALYSIS *Keun Yook Chung, Cheongju - Korea, Republic of*
	S01.01-P -10 ENVIRONMENTAL INTERPRETATION OF TWO HOLOCENIC FOSSIL SOILS IN SOUTHERN ITALY *Antonio Carmine Dimase, Firenze - Italy*
	S01.01-P -11 FUNCTIONING OF PALEOCRYOGENIC SOIL COMPLEXES: STABLE PATTERN OF RELICT FEATURES DESPITE THE CHANGEOVER OF KEY CONTROL FACTORS
17.00-18.30	*Tatiana Arkhangelskaya, Moscow - Russian Federation*
	S01.01-P -12 GEOARCHAEOLOGICAL AND PEDOSTRATIGRAPHIC STUDY OF THE SAN MICHELE CAVE OF SARACENA, CALABRIA, SOUTHERN ITALY: RECONSTRUCTION OF LATE PLEISTOCENE TO MID-HOLOCENE PALEOENVIRONMENTAL CHANGES *Fabio Scarciglia, Arcavacata di Rende (CS) - Italy*
	S01.01-P -13 IMPACT OF ANTHROPEDOGENESIS ON TERRACED LANDSCAPES IN THE VALBELLUNA VALLEY (VENETO REGION, ITALY) *Andrea Ferrarini, Venice - Italy*
	S01.01-P -14 INTERPRETING THE ASH PROFILE ALONG OMBROTROPHIC BOG PROFILES: ATMOSPHERIC DUST DEPOSITIONS VS. MINERALIZATION PROCESSES *Claudio Zaccone, Foggia - Italy*
	S01.01-P -15 IS THE CHERNOZEM SOIL RELIC OF STEPPE VEGETATION? *Barbora Vyslouzilova, Strasbourg - France*
	S01.01-P -16 LATE HOLOCENE ENVIRONMENTAL CHANGE IN TEOTIHUACAN, MEXICO, BASED ON A POLYGENETIC PALEOSOL *Serafin Sanchez, - Mexico*
	S01.01-P -17 PALEOENVIRONMENTAL IMPLICATIONS THROUGH THE STUDY OF AN EEMIAN PALEOSOL IN NORTHWESTERN SARDINIA (ITALY) *Claudio Zucca, Sassari - Italy*
	S01.01-P -18 PEREGLACIAL FEATURES IN SOILS IN THE NORTH OF EUROPEAN RUSSIA *Evgeniy Pogozhev, Moscow - Russian Federation*
	S01.01-P -19 RECENT STUDIES OF HISTORICAL AND CONTEMPORARY FIRES FROM ESTONIAN PEAT BOG PROFILES *Ülle Sillasoo, Tallinn - Estonia*
	S01.01-P -20 SHORT TIME DEVELOPMENT OF TECHNOSOLS IN MINING ENVIRONMENT *Emmanuel Joussein, Limoges - France*
	S01.01-P -21 SOILS, VEGETATION AND CLIMATE OF THE PENULTIMATE INTERGLACIAL (MOIS 7) IN UPLANDS TO THE NORTH OF THE CARPATHIANS *Maria Lanczont, Lubllin - Poland*
	S01.01-P -22 SPECTRA OF GRAIN SIZE DISTRIBUTION OF PEDOARCHIVES AS AN INDICATOR FOR CULTURAL LANDSCAPE DEVELOPMENT: THE NEOLITHIC BURIAL MOUND KÖNIGSGRAB (SACHSEN-ANHALT, GERMANY) *Svetlana V. Khamnueva, Kiel - Germany*
	S01.01-P -23 STUDY WITH N AND K FERTILIZATION OF SUGARCANE RATOONS HARVESTED WITHOUT BURNING *Fábio Luis Ferreira Dias, Piracicaba - Brazil*

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POSTER SESSIONS

17.00-18.30	S01.01-P -24 THE EFFECT OF WOOD ASH FERTILIZATION ON SOIL CHEMICAL PROPERTIES AND GREENHOUSE GAS (GHG) EMISSIONS IN BOREAL PEATLAND FORESTS *Marja Maljanen, Kuopio - Finland*
	S01.01-P -25 TUBULAR CALCRETES. MORPHOLOGY AND GENESIS OF A NEW TYPE OF CARBONATE ACCUMULATION FOUND IN SOUTHWESTERN URUGUAY *Héctor J. M. Morrás, Castelar - Argentina*
	S01.01-P -26 ZINC UPTAKE EVALUATION BY MAIZE PLANT AND DETERMINATION OF CRITICAL LEVEL IN CALCAREOUS SOILS OF IRAN *Akbar Forghani, Rasht - Iran, Islamic Republic of*
	S02.05-P **BIOLOGICAL WEATHERING AND CYCLING OF IRON, SILICON AND OTHER MAJOR AND TRANCE ELEMENTS IN SOIL**
	S02.05-P -1 BIOLOGICAL SOIL CRUSTS IMPROVE PHYSICOCHEMICAL PROPERTIES OF SOIL SURFACE HORIZON *Yolanda Canton, Almeria - Spain*
	S02.05-P -2 THE IMPORTANCE OF FUNGI IN CYCLING OF POTENTIALLY BIOAVAILABLE SILICON *Maria Lehtimäki, Helsinki - Finland*
	S02.05-P -3 CRITICAL EXAMINATION OF THE PROCEDURES USED TO QUANTIFY THE PHYTOLITH POOL IN SOILS *Jean-Dominique Meunier, Aix-en-Provence - France*
	S02.05-P -4 EFFECT OF GUARD OF IMPLANTED FORESTS ON AMORPHOUS SILICA BIOMINERALIZATIONS IN ENVIRONMENTS OF PRAIRIE, ARGENTINA *Margarita Osterrieth, Mar del Plata - Argentina*
	S02.05-P -5 EFFECT OF VARIOUS SOURCES OF SILICON ON CADMIUM AND COPPER TOXICITIES IN DURUM WHEAT *Catherine Keller, Aix-en-Provence - France*
	S02.05-P -6 THE INFLUENCE OF PLANT SILICA BIOMINERALIZATIONS (SILICOPHYTOLITHS), IN THE SOIL MATRIX CONSTRUCTION, IN PAMPEAN PLAIN SOILS AFFECTED BY AGRICULTURAL PRACTICES *Margarita Osterrieth, Mar del Plata - Argentina*
	S02.05-P -7 THE MAGNETIC PARAMETERS OF SOILS AS INDICATORS OF THEIR DIFFERENTIATION WITH DEPTH *Maria Jelenska, Warsaw - Poland*
	S02.05-P -8 ZINC MINERAL WEATHERING AS AFFECTED BY PLANT ROOTS *David Houben, Louvain-la-Neuve - Belgium*
	S02.05-P -9 EFFECTS ON SOIL CLAY ASSEMBLAGE OF CORN PLANTS INOCULATED WITH ARBUSCULAR MYCORRHIZA FUNGI *Paola Adamo, Portici (NA) - Italy*
	S02.05-P -10 EVALUATION RELATIONSHIP OF SOME SOIL CHARACTERISTICS WITH POTASSIUM Q/I CURVE PARAMETERS IN SOME SOIL OF GUILAN, PROVINCE(IRAN) *Akbar Forghani, Rasht - Iran, Islamic Republic of*
	S02.05-P -11 INVOLVEMENT OF COMPLEMENTARY AND INTERACTIVE BACTERIAL COMMUNITIES IN THE WEATHERING PROCESSES AND CYCLING OF ELEMENTS IN HYDROMORPHIC PADDY SOILS *Jacques Berthelin, Vandoeuvre-lès-Nancy - France*
	S02.05-P -12 IRON OXIDES ARE STABILISED AS DISPERSED, NANO-SIZED AGGREGATES IN SOIL EFFLUENTS *Andreas Fritzsche, Jena - Germany*
	S02.05-P -13 MAGNETIC PROPERTIES OF ALLUVIAL SOILS POLLUTED WITH HEAVY METALS *Sarka Dlouha, Prague - Czech Republic*
	S02.05-P -14 MAGNETIC PROPERTIES OF IRON (OXY)HYDROXIDES IN A SUB-ALPINE HUMIC CAMBISOL *Diana Jordanova, Sofia - Bulgaria*
	S02.05-P -15 MAGNETIC PROPERTIES OF SOILS DEVELOPED UNDER DIFFERENT ENVIRONMENTAL SETTINGS *Neli Jordanova, Sofia - Bulgaria*
	S02.05-P -16 MAGNETIC VISCOSITY OF TROPICAL SOILS *Jan Igel, Hannover - Germany*
	S02.05-P -17 MICROBIAL EFFECTS ON THE REACTIVITY AND MOBILITY OF COLLOIDAL (NANO PARTICULATE) IRON-OXIDE GEOSORBENTS. *Sneha Narvekar, Jena - Germany*
	S02.05-P -18 MODELING FOREST SOIL AND SEDIMENT BIOGENIC SILICA CONCENTRATIONS IN A SMALL CATCHMENT AREA IN SOUTHERN FINLAND – A BAYESIAN APPROACH *Virpi Siipola, Helsinki - Finland*
	S02.05-P -19 MYCORRHIZAL FUNGI TURN RULES OF WEATHERING UPSIDE DOWN *Jens Boy, Hannover - Germany*
	S02.05-P -20 PHOSPHORUS CYCLES UNDER ECTOMYCORRHIZAL AND ARBUSCULAR MYCORRHIZAL ECOSYSTEMS: SIMILAR OR DIFFERENT? *Nina Koele, Lincoln - New Zealand*

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POSTER SESSIONS

	S02.05-P -21 SI CYCLING IN A QUARTZ-RICH, FORESTED BIOGEOSYSTEM *Axel Höhn, Müncheberg - Germany*
	S02.05-P -22 CHEMICAL AND MINERALOGICAL FORMS OF IRON AND MANGANESE AND FACTORS AFFECTING THEIR VERTICAL DISTRIBUTION IN SOME FOREST SOILS *Ahmad Heidari, Karaj - Iran, Islamic Republic of*
	S02.05-P -23 EFFECTS OF SOIL AQUIC CONDITION ON POTASSIUM AVAILABILITY IN SOME PADDY SOILS *Ahmad Heidari, Karaj - Iran, Islamic Republic of*
	S02.05-P -24 EFFECTS OF TOTAL AND ACTIVE CALCIUM CARBONATE EQUIVALENT ON THE AVAILABILITY OF SOME MICRONUTRIENTS IN SOIL *Ahmad Heidari, Karaj - Iran, Islamic Republic of*
	W03.01-P **SOIL DEGRADATION IN THE MEDITERRANEAN: A NEVER ENDING STORY THAT STILL NEEDS SOLUTIONS**
	W03.01-P -1 AGRICULTURE AND SUSTAINABLE LAND USE OF SOME POLLUTED SOILS IN EGYPT *Gamil Ageeb, Cairo - Egypt*
	W03.01-P -2 ASSESSING THE ROLE OF SOIL VARIABILITY ON SOIL AND GROUNDWATER POLLUTION AT REGIONAL SCALE USING UNSATURATED FLOW AND TRANSPORT MODELING AND STOCHASTIC APPROACH *Antonio Coppola, Potenza - Italy*
	W03.01-P -3 CENTRAL ANATOLIAN TERRESTRIAL SAND DUNES: ENHANCING CARBON SEQUESTRATION BY INDIGENOUS VEGETATION *Erhan Akça, Adiyaman - Turkey*
	W03.01-P -4 DEVELOPMENT OF SOIL INDICATORS FOR OLIVE OIL MILLS WASTE DISPOSAL IN THE MEDITERRANEAN REGION *Sid Theocharopoulos, Athens - Greece*
	W03.01-P -5 DIAGNOSIS OF SOIL DEGRADATION STATE, BY SALINIZATION AND SODISATION, IN THE IRRIGATED PERIMETER OF THE MINA (NORTHWEST ALGERIA) *Mohammed Benkhelifa, Mostaganem - Algeria*
	W03.01-P -6 IMPACTS OF LAND RESOURCES AND SOIL DEGRADATION ON FUTURE DEVELOPMENT OF THE MEDITERRANEAN REGION *Pandi Zdruli, Bari - Italy*
17.00-18.30	W03.01-P -7 PARTICIPATIVE IMPLEMENTATION METHODS FOR SUSTAINABLE SOIL AND WATER CONSERVATION IN SEMI-ARID SE SPAIN *Albert Solé-Benet, Almeria - Spain*
	W03.01-P -8 PROBLEMS OF SOIL DEGRADATION, ALTERNATIVES OF CONTROL AND SOIL PROTECTION IN ALBANIA *Sherif Lushaj, Tirana - Albania*
	W03.01-P -9 PUSH AND PULL DRIVERS OF SOIL SEALING- BASED DESERTIFICATION IN SPAIN *Maria Jose Marques, Madrid - Spain*
	W03.01-P -10 SOIL DEGRADATION FOLLOWING LAND CONVERSION OF NATIVE MEDITERRANEAN SHRUBLAND TO AVOCADO (PERSEA AMERICANA MILL. VAR. HASS) ORCHARDS IN CENTRAL CHILE *Eduardo Arellano, Santiago - Chile*
	W03.01-P -11 THE INTERSECTION OF HYDROLOGICAL MODELING WITH PEDOLOGICAL INFORMATION FOR PREDICTING SOIL (AND WATER) DEGRADATION AT APPLICATIVE SCALES *Horst H. Gerke, Müncheberg - Germany*
	W03.01-P -12 URBAN GROWTH (1956-2006) AND SOIL DEGRADATION IN THE METROPOLITAN AREA OF VALENCIA, SPAIN *Juan Sánchez Díaz, Moncada (Valencia) - Spain*
	S04.06-P **CURRENT ISSUES AND APPLICATIONS OF SOIL MONITORING**
	S04.06-P -1 DISTRIBUTED SOIL MOISTURE PROFILES IN A LYSIMETER BY ACTIVELY HEATED FIBER OPTICS *Francesco Ciocca, Lausanne - Switzerland*
	S04.06-P -2 A QUICK, EASY AND LOW-COST METHOD FOR SAMPLING CO2 IN SOIL GAS *Eleanor Hobley, Newcastle - Australia*
	S04.06-P -3 A SOIL INDEX FOR FARMER-BASED MONITORING *Karoline D'haene, Merelbeke - Belgium*
	S04.06-P -4 AN INTEGRATED SOIL MONITORING FRAMEWORK COMBINING REPEATED SAMPLING AND MODELLING OF ELEMENT CONCENTRATIONS *Raniero Della Peruta, Zurich - Switzerland*
	S04.06-P -5 APPLICATION OF A ROTATIONAL SAMPLING DESIGN TO ADDRESS THE SPATIAL MEAN TEMPORAL TREND IN SOIL SATURATED HYDRAULIC CONDUCTIVITY *Sibylle Hassler, Potsdam - Germany*

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POSTER SESSIONS

17.00-18.30	S04.06-P -6 DELINEATION OF MANAGEMENT ZONES IN A VINEYARD FOR SITE-SPECIFIC NITROGEN FERTILIZATION *Gilberto Bragato, Gorizia - Italy*
	S04.06-P -7 EDAPHOLOG®: AN AUTOMATIZED SYSTEM FOR MONITORING NUMERICAL ABUNDANCE AND BODY SIZE DISTRIBUTION OF SOIL MESOFAUNA *Csongor Gedeon, Budapest - Hungary*
	S04.06-P -8 ELABORATION OF THE SOIL DEGRADATION SUBSYSTEM OF THE HUNGARIAN ENVIRONMENTAL INFORMATION SYSTEM *József Szabó, Budapest - Hungary*
	S04.06-P -9 ESTIMATING SOURCES OF UNCERTAINTIES OF SOIL ORGANIC CARBON STOCK ASSESSMENTS WITHIN A SOIL MONITORING NETWORK *Manuel Martin, Orléans - France*
	S04.06-P -10 EVALUATION OF METHODS TO ESTIMATE HUMUS EROSION AFTER COARSE-SCALE DISTURBANCES ON A MONTANE MIXED FOREST SITE IN THE NORTHERN LIMESTONE ALPS *Anna R. Hollaus, Vienna - Austria*
	S04.06-P -11 EVOLUTION OF SOIL ORGANIC CARBON IN THE SWISS MONITORING NETWORK (NABO) OVER THE LAST 25 YEARS, 1985-2009 *Reto Giulio Meuli, Zurich - Switzerland*
	S04.06-P -12 FIRST EVALUATION OF THE DISTRIBUTION AND ORIGIN OF BORON CONCENTRATIONS IN FRENCH SOILS ISSUED FROM THE FRENCH SOIL MONITORING NETWORK (RMQS) *Claudy Jolivet, Orléans - France*
	S04.06-P -13 FOREST SOIL MONITORING OF ORGANIC POLLUTANTS IN GERMANY *Bernd M Bussian, Dessau - Germany*
	S04.06-P -14 FUNDAMENTALS FOR THE USE OF SOIL MICROBIOLOGICAL METHODS IN LONG TERM MONITORING *Hans-Rudolf Oberholzer, Zürich - Switzerland*
	S04.06-P -15 HOW TO HARMONIZE THE DATA COLLECTED FROM DIFFERENT SOIL MONITORING NETWORKS: A CASE STUDY IN FRANCE *Saby Nicolas, Pa, Orléans - France*
	S04.06-P -16 LEGACY DATA, A HELP OR A HINDRANCE TO SOIL CLASSIFICATION AND MAPPING? *Brian J Reidy, Wexford - Ireland*
	S04.06-P -17 MAKING USE OF THE WORLD REFERENCE BASE DIAGNOSTIC HORIZONS FOR THE SYSTEMATIC DESCRIPTION OF THE SOIL CONTINUUM *Mareike Ließ, Bayreuth - Germany*
	S04.06-P -18 MAPPING ORGANIC CARBON POOLS OF SWISS FOREST SOILS *Madlene Nussbaum, Zurich - Switzerland*
	S04.06-P -19 MEASURING BULK DENSITY IN LARGE SCALE SOIL INVENTORIES TO ESTIMATE SOIL ORGANIC CARBON STOCKS - REGRESSION EQUATIONS FOR CORRECTING THE RESULTS FROM DRIVING HAMMER EQUIPMENT AND SOIL SAMPLE RINGS *Michaela Bach, Braunschweig - Germany*
	S04.06-P -20 MIXED MODEL METHODOLOGY IS SUITABLE FOR ANALYSING SOIL MONITORING DATA *Elsa Suuster, Tartu - Estonia*
	S04.06-P -21 MONITORING AND INTERPRETING THE PHYSICAL QUALITY OF ARABLE SOILS *Karoline D'haene, Merelbeke - Belgium*
	S04.06-P -22 MONITORING LAND USE INDUCED CHANGES OF CARBON STOCKS IN GRASSLAND AND FOREST SOILS – LESSONS LEARNED FROM REGIONAL CARBON INVENTORIES *Ingo Schöning, Jena - Germany*
	S04.06-P -23 MONITORING SOIL QUALITY IN THE NETHERLANDS: KEY CHALLENGES *Esther Wattel-Koekkoek, Bilthoven - Netherlands*
	S04.06-P -24 NEW TAXONOMIC FRAMEWORK FOR ENHANCING A HORIZON LOWERCASE SUFFIXES TO ENABLE DETAILED MONITORING OF SOIL CHANGE IN TOPSOILS *Gabriele Broll, Osnabrück, - Germany*
	S04.06-P -25 SPATIAL DISTRIBUTION OF ORGANIC MATTER RESERVES IN THE FOREST SOILS OF KARKONOSZE MOUNTAINS NATIONAL PARK (SOUTH-WEST POLAND) *Katarzyna Szopka, Wroclaw - Poland*
	S04.06-P -26 THE INTERNATIONAL SOIL MOISTURE NETWORK: A GLOBAL SOIL MOISTURE MONITORING PLATFORM *Angelika Xaver, Vienna - Austria*
	S04.06-P -27 THE TOTAL PHOSPHORUS CONTENT OF SOILS AND ITS SPATIAL DISTRIBUTION IN FRANCE *Magalie Delmas, Orléans - France*
	S04.06-P -28 TWO DIFFERENT ANALYTICAL APPROACHES IN LASER INDUCED BREAKDOWN SPECTROSCOPY (LIBS) TECHNIQUE TO DETERMINE ELEMENTAL CONCENTRATIONS IN SOILS *Giorgio S. Senesi, Bari - Italy*
	S04.06-P -29 USE OF LEGACY DATA FOR BROAD SCALE SOIL MONITORING *Ben Marchant, Harpenden - United Kingdom*

WEDNESDAY 4 JULY 2012 - GROUND FLOOR - Pavilion 9

POSTER SESSIONS

17.00-18.30	**W05.01-P** **RECYCLING OF URBAN WASTE RESOURCES – POSITIVE AND NEGATIVE IMPACTS ON SOIL QUALITY AND THE ENVIRONMENT**
	W05.01-P -1 BASIC EXPERIMENTS ON EFFECTS OF SEWAGE SLUDGE ON EARLY GROWTH OF CROP PLANTS *Brigitta Tóth, Debrecen - Hungary*
	W05.01-P -2 COPPER SOLUBILITY AND PHYTOAVAILABILITY IN SOILS POLLUTED BY COPPER SMELTERS AS AFFECTED BY APPLICATION OF SEWAGE SLUDGE AND SLUDGE LEACHATES *Anna Karczewska, Wroclaw - Poland*
	W05.01-P -3 DOES THE SEWAGE-SLUDGE SPREADING HAVE AN IMPACT ON SOIL AND CROP QUALITY ? *Denis Baize, Orleans - France*
	W05.01-P -4 EFECTS OF MWR ON SOIL PROPIERTIES AND LECTUCCE GROW IN NO-POLLUTED HAPLIC CALCISOLS AND POLLUTED SPOLIC TECHNOSOLS *María Nazaret González-Alcaraz, Cartagena - Spain*
	W05.01-P -5 EFFECTS OF DIGESTATE APPLICATION ON CHEMICAL PROPERTIES OF SOIL *Miklós Gulyás, Gödöllo - Hungary*
	W05.01-P -6 FATE OF THIACLOPRID AND CHLORTOLURON IN A CALCAREOUS SOIL IRRIGATED WITH WASTEWATER: A FIELD EXPERIMENT *Peña Aránzazu, Armilla (Granada) - Spain*
	W05.01-P -7 IMPACT OF AMENDMENT WITH ORGANIC WASTES ON THE PREVALENCE OF HUMAN PATHOGENS AND ANTIBIOTIC RESISTANCE SPREAD IN AGRICULTURAL FIELDS *Sylvie Nazaret, Villeurbanne - France*
	W05.01-P -8 IMPACTS OF DIFFERENT COMPOST AMENDMENTS ON ECOPHYSIOLOGICAL TRAITS OF MICROBIAL COMMUNITIES AND SEASONAL SUCCESSION IN MEDITERRANEAN SOIL. AN EXPERIMENTAL FIELD STUDY *Annette Berard, Avignon - France*
	W05.01-P -9 INFLUENCE OF FRESH DE-OILED TWO-PHASE OLIVE MILL WASTE ON A SOIL'S PHYSICAL PROPERTIES *Daniel Becerra Traver, Badajoz - Spain*
	W05.01-P -10 LEACHABLE TRACE METALS IN URBAN WASTE COMPOSTS AND IN AMENDED SOILS – INFLUENCE OF LENGTH OF COMPOSTING AND TRANSFORMATION WITHIN SOIL *Jérémy Doublet, Limay - France*
	W05.01-P -11 MODEL CALIBRATION OF C AND N MINERALIZATION DYNAMICS AFTER APPLICATION OF URBAN WASTE PRODUCTS *Martin Preuss Nielsen, Frederiksberg C - Denmark*
	W05.01-P -12 P LEACHED BY BIODEGRADABLE WASTES *Marta García Albacete, Madrid - Spain*
	W05.01-P -13 RECYCLING OF URBAN PHOSPHORUS IN THE FORM OF MAP. – FROM THE SEWAGE TO THE FIELD *Tim Theobald, Potsdam - Germany*
	W05.01-P -14 RECYCLING URBAN LEAF LITTER AT GUINEO VILLAGE, TABASCO, MEXICO *Esperanza Huerta, Villahermosa, Tabasco - Mexico*
	W05.01-P -15 RECYCLING URBAN SEWAGE SLUDGE TO ENHANCE VEGETATIVE ESTABLISHMENT IN AN ACID MINE SOIL *Peña Aránzazu, Armilla (Granada) - Spain*
	W05.01-P -16 SPECTROSCOPIC COMPARISON OF DIGESTATES OBTAINED FROM DIFFERENT ORGANIC SUBSTRATES *Anna Daniela Malerba, Bari - Italy*
	W05.01-P -17 URBAN AND LIVESTOCK WASTE FROM REUNION ISLAND: CHARACTERIZATION AND MODELLING OF THEIR TRANSFORMATION IN SOIL *Nantenaina Rabetokotany-Rarivoson, Saint Denis - Réunion*
	W05.01-P -18 USAGE OF DIFFERENT FERTILIZERS IN LONG-TERM AGRICULTURAL FIELD TRIAL CRUCIAL – EFFECT ON LEACHING OF PARTICLES, METALS, DISSOLVED ORGANIC CARBON AND BACTERIA FROM INTACT SOIL CORES *Jonas Duus Stevens Lekfeldt, Copenhagen - Denmark*
	W05.01-P -19 USE OF COMPOST IN FERTILIZATION OF GOLF GREENS *Carmo Horta, Castelo Branco - Portugal*
	W05.01-P -20 USING DATA MINING TO PREDICT SOIL QUALITY AFTER APPLICATION OF BIOSOLIDS IN AGRICULTURE *Françoise Watteau, Vandoeuvre-lès-Nancy - France*
	W05.01-P -21 WATER AND NITROGEN DYNAMICS IN A CULTIVATED SOIL AFTER A LONG TERM OF URBAN COMPOST APPLICATION *Maha Chalhoub, Orleans - France*
	W05.01-P -22 SOIL SODICITY AND RECLAMATION POSSIBILITIES WITH FLY ASH *Selda Ors, Erzurum - Turkey*
	S06.01-P **GREENHOUSE GAS EMISSIONS FROM SOIL UNDER CHANGING ENVIRONMENTAL CONDITIONS: CONCEPTS, MODELING AND OBSERVATIONS**
	S06.01-P -1 AMMONIA AND NITROUS OXIDE EMISSION AFTER FERTILIZATION WITH BIOGAS SLURRY *Ulrike Wolf, Braunschweig - Germany*

WEDNESDAY 4 JULY 2012 - GROUND FLOOR - Pavilion 9

POSTER SESSIONS

17.00-18.30	S06.01-P -2 ARE N2O EMISSIONS HIGHER IN SOYBEAN CROP AND RESIDUES THAN IN OHER CROPS? *Miguel Angel Taboada, Hurlingham, Province of Buenos Aires - Argentina*
	S06.01-P -3 BIOLOGICAL SOIL CRUSTS (BSC) IN THE SAHELIAN ZONE. CAN THEY IMPACT SOIL C AND N CYCLES? *Isabelle Bertrand, Reims - France*
	S06.01-P -4 C AND N TRACE GAS EXCHANGE FROM TROPICAL ECOSYSTEMS AT MT. KILIMANJARO, TANZANIA *Friederike Gerschlauer, Garmisch-Partenkirchen - Germany*
	S06.01-P -5 C02 EMISSION IN SOILS UNDER SEWAGE SLUDGE AMENDMENT IN AFFORESTED AREAS *Tania Leme De Almeida, São Carlos - Brazil*
	S06.01-P -6 CHANGES IN NITRIFICATION AND DENITRIFICATION POTENTIALS AFTER COATED UREA APPLICATION AFFECT SOIL N2O EMISSIONS FROM DIFFERENT SOILS – A 15N TRACER STUDY *Yoshitaka Uchida, Tsukuba - Japan*
	S06.01-P -7 COMPARISON OF SOIL CO2 EMISSIONS BETWEEN ARABLE LAND AND SHORT ROTATION CROPS FOR BIOMASS *Chiara Ferré, Milan - Italy*
	S06.01-P -8 DAILY VARIATIONS OF CO2 FLUXES IN HISTIC AND TURBIC CRYOSOLS FROM SALLUIT, NUNAVIK (QC, CANADA) *Julien Fouché, Aix en Provence - France*
	S06.01-P -9 DEVELOPMENT AND REGIONAL APPLICATION OF SIMPLE MODELS FOR SOIL GREENHOUSE GAS FLUXES *Hashimoto Shoji, Tsukuba - Japan*
	S06.01-P -10 EFFECT OF PEAT PROPERTIES ON THE EMISSIONS OF N2O AND CO2 *Martti Esala, Jokioinen - Finland*
	S06.01-P -11 EFFECT OF WEATHER CONDITIONS ON N2O EMISSION PATTERNS DURING WINTER CEREAL CULTIVATION IN TWO DIFFERENT CLIMATIC REGIONS *Pietro Goglio, Pisa - Italy*
	S06.01-P -12 EVALUATING SPATIAL AND TEMPORAL VARIATION IN GWP AT A REGIONAL SCALE IN IKUSHUNBETSU RIVER WATERSHED, HOKKAIDO JAPAN *Li Xi, Sapporo - Japan*
	S06.01-P -13 FUMIGATION-CO2-INJECTION (FCI)-BAPS: A NEW METHOD TO MEASURE GROSS NITRIFICATION RATES IN CALCAREOUS SOILS *Hannah Conrads, Stuttgart - Germany*
	S06.01-P -14 GREENHOUSE GAS BUDGETS OF FOREST SOILS, BASED ON SOIL MONITORING DATA *Klaus V.wilpert, Freiburg - Germany*
	S06.01-P -15 GREENHOUSE GAS EMISSIONS FROM ACID SULPHATE SOILS *Kristiina Regina, Jokioinen - Finland*
	S06.01-P -16 IMPACT OF CULTIVATION ON N2O EMISSIONS AFTER NATIVE FOREST CLEARING WITH CHOP AND MULCH METHOD IN FRENCH GUIANA *Caroline Petitjean, Kourou - French Guiana*
	S06.01-P -17 IMPACT OF FOREST DISTURBANCE ON SOIL RESPIRATION IN ORGANIC SOILS ON CALCAREOUS BEDROCK *Mathias Mayer, Vienna - Austria*
	S06.01-P -18 IMPROVEMENT OF TECHNIQUES FOR MEASURING GREENHOUSE GAS FLUXES FROM AGRICULTURAL SOILS IN JAPAN *Ayaka W. Kishimoto-Mo, Tsukuba, Ibaraki - Japan*
	S06.01-P -19 INFLUENCE OF SOIL WATER STATUS AND COMPACTION ON N2O AND N2 EMISSIONS FROM SYNTHETIC URINE. *Tina Harrison-Kirk, Christchurch - New Zealand*
	S06.01-P -20 INFLUENCES OF FOREST MANAGEMENT ON SOIL CARBON STOCKS IN SISTEMA CENTRAL (SPAIN) *Carlos Ortiz Oñate, Madrid - Spain*
	S06.01-P -21 INTERCALATION OF CARBON DIOXIDE IN A SMECTITE CLAY *Henrik Hemmen, Trondheim - Norway*
	S06.01-P -22 IRRIGATION AND MANAGEMENT PRACTICES INFLUENCE ON SOIL GREENHOUSE GAS EMISSIONS *Upendra Sainju, Sidney, Montana - United States*
	S06.01-P -23 LARGE N2O EMISSION FROM N-SATURATED SUBTROPICAL FOREST, SOUTHWEST CHINA *Jan Mulder, Aas - Norway*
	S06.01-P -24 LONG TERM CO2 ENRICHMENT IN A TEMPERATE GRASSLAND INCREASES SOIL RESPIRATION DURING LATE AUTUMN AND WINTER *Lisa Schottler, Giessen - Germany*
	S06.01-P -25 MANAGEMENT EFFECTS BIOLOGICAL AND PHYSICAL CONTROLS ON SOIL CARBON SEQUESTRATION *Charles Rice, Manhattan, KS - United States*

WEDNESDAY 4 JULY 2012 - GROUND FLOOR - Pavilion 9

POSTER SESSIONS

17.00-18.30	S06.01-P -26 MEASUREMENTS AND MODELING OF THE MOLECULAR HYDROGEN FLUX FROM EUROPEAN SOILS *Alina Jasek, Krakow - Poland*
	S06.01-P -27 METHANE PRODUCTION AND CONSUMPTION IN LOESS SOIL AS AFFECTED BY SLOPE POSITION *Malgorzata Brzezinska, Lublin - Poland*
	S06.01-P -28 N2O EMISSION FACTORS FROM N-FERTILIZER UREA IN COTTON AND CORN IN THE BRAZILIAN SAVANNA *Gregori Da EncarnaÇÃo FerrÃo, Piracicaba - Brazil*
	S06.01-P -29 N2O EMISSION FROM SOIL DUE TO ADDITION OF URINE OF LIVESTOCK IN EXTENSIVE SYSTEM *Arlete Simões Barneze, Piracicaba-SP - Brazil*
	S06.01-P -30 N2O EMISSIONS BY SOILS IN RELATION TO SOIL WATER DYNAMICS *Eva Rabot, Orléans - France*
	S06.01-P -31 NITROUS OXIDE AND METHANE EXCHANGE IN DIFFERENT ECOSYSTEM TYPES IN NORTH-WESTERN GERMANY *Sarah Witte, Oldenburg - Germany*
	S06.01-P -32 NITROUS OXIDE DYNAMICS IN ALLUVIAL SOIL-GRAVEL VADOSE MATERIAL FOLLOWING NITRATE LEACHING *Steve Thomas, Lincoln - New Zealand*
	S06.01-P -33 PRODUCTION AND CONSUMPTION OF NOX GASES IN SOILS OF EUROPEAN PART OF RUSSIA *Alexey Stepanov, Moscow - Russian Federation*
	S06.01-P -34 REDUCTION OF N2O-EMISSION BY PYRACLOSTROBIN *Ingrid Claß-Mahler, Stuttgart - Germany*
	S06.01-P -35 RELEVANCE OF DIRECT ORGANIC N-OXIDATION AS SOURCE OF NITROUS GASES (NO AND N2O) *C. Florian Stange, Hannover - Germany*
	S06.01-P -36 RESPIRATION OF OLD (C3) AND NEW (C4) CARBON IN A SWEDISH LONG-TERM FIELD EXPERIMENT USING 13CO2 CAVITY RING-DOWN SPECTROSCOPY MEASUREMENTS *Lorenzo Menichetti, Uppsala - Sweden*
	S06.01-P -37 RESPONSE OF SOIL WATERS TO CHANGES IN CLIMATE, NITROGEN DEPOSITION AND LAND MANAGEMENT IN AN ALPINE HEATHLAND *Rachel Helliwell, Aberdeen - United Kingdom*
	S06.01-P -38 SEASONAL DYNAMICS OF SOIL RESPIRATION IN SILVER BIRCH PLANTATIONS IN FREE AIR HUMIDITY MANIPULATION EXPERIMENT: A FAHM STUDY *Mai Kukumägi, Tartu - Estonia*
	S06.01-P -39 SEASONAL VARIABILITY OF SOIL CO2 FLUX AND ITS CARBON ISOTOPE COMPOSITION IN KRAKOW URBAN AREA, SOUTHERN POLAND *Alina Jasek, Krakow - Poland*
	S06.01-P -40 SIMULATION OF GREENHOUSE GASES AND SOIL ORGANIC CARBON STOCK CHANGES IN IRISH CROPLAND USING THE ECOSSE MODEL *M.i. Khalil, Wexford - Ireland*
	S06.01-P -41 SOIL CO2 FLUX AND DECOMPOSITION FROM SOIL DISTURBANCE TREATMENTS AFTER CLEAR-CUTTING *Kristina Mjöfors, Uppsala - Sweden*
	S06.01-P -42 SOIL GREENHOUSE GAS FLUXES UNDER CONDITIONS OF CLIMATE-INDUCED DROUGHT AND HEAVY RAIN FROM AGRICULTURAL SOILS IN THE PANNONIAN AREA *Kerstin Michel, Vienna - Austria*
	S06.01-P -44 SUBTERRANEAN CO2 FLUCTUATIONS UNDER DIFFERENT METEOROLOGICAL DRIVERS *Enrique P. Sánchez-Cañete, Almería - Spain*
	S06.01-P -45 THE IMPACT OF LAND MANAGEMENT TO THE EMISSION OF GREENHOUSE GASES *Mandy Peichl-Brak, Stuttgart - Germany*
	S06.01-P -46 THE ROLE OF INTERNAL GAS TRANSPORT IN JUNCUS EFFUSUS FOR METHANE EMISSIONS FROM DRAINED PEATLANDS *Anders Henneberg, Aarhus - Denmark*
	S06.01-P -47 TREE SPECIES AND LAND-USE CHANGE EFFECTS ON CH4 OXIDATION IN SOIL *Jesper Riis Christiansen, Copenhagen - Denmark*
	S06.01-P -48 VALIDATION TO DAYCENT SOIL MODEL FROM EDDY COVARIANCE MEASUREMENTS *Lorenzo Brilli, Firenze - Italy*
	S08.02-P **SOIL AND WATER INTERACTIONS AS ONE OF MAJOR DRIVING FORCES IN ENVIRONMENT**
	S08.02-P -1 WATER INFILTRATION AND DISCHARGE DURING SNOWMELT PERIODS FOR A SMALL CATCHMENT IN NORWAY *Jannes Stolte, Ås - Norway*

WEDNESDAY 4 JULY 2012 - GROUND FLOOR - Pavilion 9

POSTER SESSIONS

17.00-18.30	S08.02-P -2 ASSESSMENT OF THE SIMPLIFIED FALLING HEAD TECHNIQUE TO MEASURE THE FIELD SATURATED SOIL HYDRAULIC CONDUCTIVITY *Vincenzo Bagarello, Palermo - Italy*
	S08.02-P -3 USING FLUORESCENCE MATRICES TO DETERMINE THE IMPACT OF RISING SOIL TEMPERATURES ON CARBON COMPOSITION IN DRAINAGE WATER INFLUENCING SHALLOW LAKE ECOSYSTEMS *Nils Meyer, Berlin - Germany*
	S08.02-P -4 EFFECT OF SOIL SOLUTION SALINITY ON WATER RETENTION OF SELECTED SUPERABSORBENTS IN THE PROCESS OF WATER DESORPTION *Jaroslaw Kaszubkiewicz, Wroclaw - Poland*
	S08.02-P -5 ELECTRICAL IMPEDANCE SPECTROSCOPY (EIS) METHOD TO DETERMINE WATER CONTENT AND PHISICAL PROPERTIES IN THE ROCKS *Rita Masciale, Bari - Italy*
	S08.02-P -6 THE MAP OF NATURAL WATER HOLDING CAPACITY OF EUROPEAN SOILS *Beata Houskova, Bratislava - Slovakia*
	S08.02-P -7 EXPERIMENTAL STUDY OF SPATIAL VARIABILITY OF STRUCTURAL UNITS IN A SMALL CATCHMENT IN THE NEGEV HIGHLANDS, ISRAEL *Nikolaus J. Kuhn, Basel - Switzerland*
	S08.02-P -8 INFILTRATION RATES AS AFFECTED BY SOIL TEXTURE, PLANT COMMUNITY COMPOSITION AND EARTHWORMS IN A GRASSLAND PLANT DIVERSITY EXPERIMENT *Christine Fischer, Jena - Germany*
	S08.02-P -9 INFLUENCE OF BIOLOGICAL SOIL CRUSTS ON SOIL WATER BALANCE COMPONENTS *Yolanda Canton, Almeria - Spain*
	S08.02-P -10 IRRIGATION IMPACTS ON SOIL TRACE ELEMENTS – THE CASE STUDY OF CAIA IRRIGATION PERIMETER, PORTUGAL *José Manuel Rato Nunes, Lisboa - Portugal*
	S08.02-P -11 MERGING MEASUREMENTS OF RECHARGE AND EVAPOTRANSPIRATION IN A SOIL WATER BALANCE MODEL *Vicente Vásquez, Tjele - Denmark*
	S08.02-P -12 OPTIMISING SOIL DESIGN TO MAXIMISE THE REHABILITATION SUCCESS AT POST-MINING LANDSCAPES *Thomas Baumgartl, Brisbane - Australia*
	S08.02-P -13 RANDOMISED MOVING PLOTS TO EVALUATE SIMULATED SPATIO-TEMPORAL DYNAMICS SOIL MOISTURE *Yvonne Morgenstern, Freiburg - Germany*
	S08.02-P -14 SHRINKAGE CAPACITY AS AFFECTED BY SOIL PERTURBATION IN ANDOSOLS AND ANDIC SOILS *Jose M. Hernandez-Moreno, La Laguna - Spain*
	S08.02-P -15 SOIL MOISTURE REGIME OF UPLAND SOILS: RELATIONSHIP WITH ZERO TENSION LYSIMETERS *Nikki Baggaley, Aberdeen - United Kingdom*
	S08.02-P -16 SOIL WATER CONTENT DYNAMICS IN THE TOPSOILS UNDER DIFFERENT WAY OF TREATMENT *Maxim Poltoradnev, Moscow - Russian Federation*
	S08.02-P -17 SPATIAL AND TEMPORAL VARIABILITY OF SOIL MOISTURE IN AGRICULTURALLY USED TOPSOILS WITH CONSTANT CROP ROTATION AND DIFFERENT TILLAGE INTENSITY IN TWO SOIL MOISTURE NETWORKS OF PAK346 *Maxim Poltoradnev, Stuttgart - Germany*
	S08.02-P -18 A NEW APPROACH FOR GROUNDWATER STUDIES IN ARID REGIONS USING AN ELECTROMAGNETIC-BASED METHOD AND APPARATUS *Seyed Mehdi Emadi, Sari - Iran, Islamic Republic of*
	S08.02-P -19 EVALUATION OF SOIL PARAMETERS EFFECTS ON THE YIELD CROP UNDER DROUGHT CONDITION *Najmeh Khalili, Mashhad - Iran, Islamic Republic of*
	S08.02-P -20 CHANGES IN SOIL WATER INFILTRATION PARAMETERS AFTER FIRE IN SEMI STEPPE RANGELANDS USING MULTI VARIATION ANALYSIS *Jalal Heidary, Shahrekord - Iran, Islamic Republic of*
	S11.05-P **NITROGEN TURNOVER AND GLOBAL CHANGE - INFLUENCE OF ECOSYSTEM DEVELOPMENT, CLIMATE, LAND USE AND XENOBIOTICS ON ABUNDANCE, DIVERSITY AND ACTIVITY OF SOIL MICROBIAL KEY PLAYERS**
	S11.05-P -1 ACTIVE ACETYLENE REDUCTION FROM MEADOW TUNDRA SOIL MICROBIOTA BUT NOT IN THOSE OF HEATH TUNDRA IN ABISKO, SWEDEN *Yasuyuki Hashidoko, Sapporo - Japan*
	S11.05-P -2 AMMONIA OXIDATION IN SOILS OF DESERT ECOSYSTEMS: EFFECT OF ARIDITY LEVEL *Yonatan Sher, Sde Boqer Campus - Israel*
	S11.05-P -3 BASELINE OF BIOGEOCHEMICAL CYCLES IN TEMPERATE OLD GROWTH FORESTS IN CHILE *Roberto Godoy, Valdivia - Chile*

WEDNESDAY 4 JULY 2012 - GROUND FLOOR - Pavilion 9

POSTER SESSIONS

	S11.05-P -4 BIOGEOCHEMICAL PROCESSES BEHIND HIGHLY VARIABLE N2O EMISSIONS IN FORESTED AND AGRICULTURAL PEATLANDS *Maarit Liimatainen, Kuopio - Finland*
	S11.05-P -5 EFFECT OF COBALT, AND NITROGEN FORMS ON NITRATE ACCUMULATION IN JEW'S MALLOW PLANT AS AFFECTED BY A NITRIFICATION INHIBITOR *Safaa Abdalla, Giza - Egypt*
	S11.05-P -6 GRASS-ENDOPHYTE (NEOTYPHODIUM COENOPHIALUM) SYMBIOSIS INFLUENCES INORGANIC N AND AMINO ACID DYNAMICS IN SOIL *Somayeh Ghasemi, Isfahan - Iran, Islamic Republic of*
	S11.05-P -7 GROSS NITROGEN FLUXES IN INTACT BEECH-SOIL MICROCOSMS UNDER SIMULATED CLIMATE CHANGE *Michael Dannenmann, Freiburg - Germany*
	S11.05-P -8 NEW PRIMERS FOR PCR-DGGE ANALYSIS OF NITRATE REDUCING BACTERIAL COMMUNITY: APPLICATION TO SOIL ENVIRONMENT *Roberta Pastorelli, Bologna - Italy*
	S11.05-P -9 QUANTIFYING THE UNCERTAINTIES IN SOIL DENITRIFICATION POTENTIAL AS DETERMINED BY ACETYLENE INHIBITION METHOD *Shuping Qin, Shijiazhuang - China*
	S11.07-P **BIOTIC AND ABIOTIC DRIVERS OF PRIMING EFFECTS**
	S11.07-P -1 AGRICULTURAL PRACTICES SHAPE MICROBIAL COMMUNITIES AND CHANGE FRESH AND SOIL ORGANIC MATTER MINERALIZATION IN A TROPICAL SOIL *Agnès Robin, Montpellier - France*
	S11.07-P -2 BIOCHAR PRIMING EFFECTS DURING COMPOSTING *Bruno Glaser, Halle (Saale) - Germany*
	S11.07-P -3 CARBON MINERALIZATION POTENTIAL AND PRIMING IN DEEP VOLCANIC RAINFOREST SOILS COMPARED TO THOSE OPPERATING IN TOPSOIL *Rodrigo Neculman, Temuco - Chile*
	S11.07-P -4 EFFECTS OF ELEVATED ATMOSPHERIC CO2 CONCENTRATIONS AND NITROGEN FERTILIZATION ON PRIMING EFFECTS, ENZYME ACTIVITIES AND PLFA IN AN AGRICULTURAL SOIL *Heike Ohm, Bochum - Germany*
	S11.07-P -5 EFFECTS OF PLANT-DERIVED DOM ON MINERALIZATION PROCESSES AND MICROBIAL COMMUNITY STRUCTURE IN MANAGED AND ABANDONED PASTURE SOILS IN SOUTHERN ECUADOR *Alexander Tischer, Tharandt - Germany*
17.00-18.30	S11.07-P -6 IMPORTANCE OF PRIMING EFFECTS (PES) FOR PASTURE MANAGEMENT IN SOUTHERN ECUADOR *Karin Potthast, Dresden - Germany*
	S11.07-P -7 INTERACTIVE EFFECTS OF C AND N AVAILABILITY ON DECOMPOSITION OF SOIL ORGANIC MATTER *Ruirui Chen, Nanjing - China*
	S11.07-P -8 LIGHT INTENSITY AND MINERAL N INFLUENCE RHIZOSHPERE PRIMING EFFECTS *Ruirui Chen, Nanjing - China*
	S11.07-P -9 MANGROVE DECOMPOSITION DYNAMICS IN RESPONSE NUTRIENT ENRICHMENT *Joost Keuskamp, Utrecht - Netherlands*
	S11.07-P -10 MODELLING THE CHANGES IN DISSOLVED ORGANIC MATTER AROMATICITY CAUSED BY PRIMING EFFECT IN A METAL-CONTAMINATED SOIL *Jean-Yves Cornu, Bordeaux - France*
	S11.07-P -11 NITROGEN CONTROL OVER MICROBIAL ACTIVITY AND REAL PRIMING EFFECT *Sergey Blagodatsky, Aberdeen - United Kingdom*
	S11.07-P -12 ORGANIC MATTER ACCUMULATION IN THE SOIL CAN BE DETERMINED BY THE NET NUTRIENT BALANCE OF THE ECOSYSTEM: A MODEL TO EXPLAIN THE COMPLEX NETWORK OF INTERACTIONS BETWEEN MICROBIAL DIVERSITY AND PLANT *Nazia Perveen, Clermont Ferrand - France*
	S11.07-P -13 PRIMING EFFECT IN TOP AND SUB-SOILS IN THE CONTEXT OF MICROLANDSCAPE *Alexey Zhuravlev , Pushchino - Russian Federation*
	S11.07-P -14 PRIMING EFFECT FOLLOWING NITROGEN ADDITION INTO BULK AND GLUCOSE-AMENDED SOILS *Eva Kastovska, Ceske Budejovice - Czech Republic*
	S11.07-P -15 THE AFFECT OF PLANT-PLANT INTERACTIONS ON THE RHIZOSPHERE PRIMING EFFECT (RPE) *Johanna Pausch, Bayreuth - Germany*
	S11.07-P -16 THE IMPACT OF TEMPERATURE AND SUBSTRATE QUALITY ON SOM PRIMING: EVIDENCE FROM LONG TERM INCUBATIONS AND C3-C4 TRANSITION EXPERIMENTS *Ilya Yevdokimov, Pushchino - Russian Federation*
	S11.07-P -17 THE ROLE OF PRIMING EFFECT IN DECOMPOSITION OF ORGANIC MATTER IN MODERN AND PALEO- SOILS *Anna Zhuravleva , Pushchino - Russian Federation*
	S11.07-P -18 UNDERSTANDING MICROBIAL REGULATION OF PRIMING EFFECTS: NEW INSIGHT FROM SMALL-SCALE INVESTIGATIONS AT THE SOIL-LITTER INTERFACE *Christian Poll, Stuttgart - Germany*

4th International Congress of the

EUROSOIL 2012

5 THURSDAY JULY

Monopoli, Bari. Archive photo FOTOGRAMMA - Bari

THURSDAY 5 JULY 2012 - ROOM ACERO - Pavilion 10

ORAL SESSIONS

BLOCK I 08.30-10.00	**S02.02** **EARLY ECOSYSTEM AND SOIL DEVELOPMENT** *Chair Persons:* Stefano Bernasconi, Zurich - Switzerland Jörg Luster, Birmensdorf - Switzerland Michael Scholter, Neuherberg - Germany	BLOCK III 13.30-15.00	**S05.03b** **BIOCHAR EFFECTS ON SOIL PROPERTIES, PROCESSES AND FUNCTIONS** *Chair Person:* Heike Knicker, Sevilla - Spain
	S02.02 -1 SOIL MICROBIAL COMMUNITY DEVELOPMENT AND PLANT-MICROBE INTERACTIONS ALONG A GLACIAL CHRONOSEQUENCE *Aria Hahn, Edmonton - Canada*		S05.03b -1 ROOT AND RHIZOSPHERE RESPONSES TO BIOCHAR ADDITION *Miranda Prendergast-Miller, Edinburgh - United Kingdom*
	S02.02 -2 MICROBIAL FOOD WEB DYNAMICS ALONG A SOIL CHRONOSEQUENCE OF A GLACIER FOREFIELD *Jean Charles Munch, Neuherberg - Germany*		S05.03b -2 BIOCHAR (IN)STABILITY IN SOILS: THE ROLE OF SOIL ORGANISMS *Nele Ameloot, Gent - Belgium*
	S02.02 -3 REACTIONS OF MICROBIAL COMMUNITIES AFTER THE TRANSPLANTATION OF SOILS ALONG A CLIMATIC GRADIENT IN A GLACIER FOREFIELD *Anita Zumsteg, Birmensdorf - Switzerland*		S05.03b -3 BIOCHAR: ITS BIOAVAILABILITY AND UTILISATION BY SOIL MICROORGANISMS *Mark Farrell, Adelaide - Australia*
	S02.02 -4 PEDOGENESIS AND PHOSPHORUS SPECIES EVOLUTION: RECONSTRUCTION FROM MOUNTAIN LAKE SEDIMENT ARCHIVES *Charline Giguet-Covex, Le Bourget du Lac - France*		S05.03b -4 BIOCHAR AS CARRIER FOR PLANT NUTRIENTS AND MICROORGANISMS – A FIRST APPROACH TO ACTIVATION TECHNIQUES *Hans-Peter Schmidt, Arbaz - Switzerland*
	S02.02 -5 BIOLOGICAL ACTIVITIES OF SOILS DEVELOPING ON A 50-YEAR-OLD COAL-WASTE HEAP OF THE MINING BASIN OF PROVENCE (SOUTH-EAST OF FRANCE) *Mélanie Clouard, Aix en Provence - France*		S05.03b -5 BIOCHAR AMENDMENT AFFECTS METAL LEACHING FROM MULTI-CONTAMINATED SUBSTRATES: A MICROCOSM STUDY *Guido Fellet, Udine - Italy*
	S02.02 -6 SPATIAL CARBON AND NITROGEN DISTRIBUTION AND ORGANIC MATTER CHARACTERISTICS OF BIOLOGICAL SOIL CRUSTS IN THE NEGEV DESERT (ISRAEL) ALONG A RAINFALL GRADIENT *Sylvie Drahorad, Giessen - Germany*		S05.03b -6 THE ROLE OF BIOCHAR IN THE PHYTOREMEDIATION OF METAL/METALLOID CONTAMINATED SOILS *Luke Beesley, Aberdeen - United Kingdom*
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*	*15.00-15.30*	*COFFEE BREAK - Bar Pavilion 9*
BLOCK II 10.30-12.00	**S05.03a** **BIOCHAR EFFECTS ON SOIL PROPERTIES, PROCESSES AND FUNCTIONS** *Chair Person:* Frank Verheijen, Aveiro - Portugal	BLOCK IV 15.30-17.00	**S05.03c** **BIOCHAR EFFECTS ON SOIL PROPERTIES, PROCESSES AND FUNCTIONS** *Chair Person:* Ellen Graber, Bet Dagan - Israel
	S05.03a -1 TIERRA NEGRA ANDALUZA – AN EXAMPLE HOW BIOCHAR APPLICATION MAY ALTER SOIL ORGANIC MATTER COMPOSITION ON A LONG TERM SCALE *Heike Knicker, Sevilla - Spain*		S05.03c -1 STABILITY AND BIOLOGICAL EFFECTS OF PYROGENIC AND HTC-BIOCHARS IN TWO SOILS *Bernd Marschner, Bochum - Germany*
	S05.03a -2 A META-ANALYSIS OF THE EFFECTS OF BIOCHAR APPLICATION TO SOILS ON CROP PRODUCTIVITY *Simon Jeffery, Laveno - Italy*		S05.03c -2 EARLY MINERALIZATION OF BIOCHAR: IMPORTANCE OF ABIOTIC AND BIOTIC PROCESSES *Sander Bruun, Frederiksberg C - Denmark*
	S05.03a -3 THE BIOCHAR EFFECT: PLANT GROWTH PROMOTION AND RESISTANCE TO BIOTIC STRESSES *Ellen R. Graber, Bet Dagan - Israel*		S05.03c -3 SOIL PRIMING EFFECTS AND THE MINERALISATION OF BIOCHAR FOLLOWING ITS INCORPORATION TO SOILS OF DIFFERENT pH *Yu Luo, Beijing - China*
	S05.03a -4 BIOCHAR EFFECTS ON ARID AND SEMI-ARID SOIL CHEMICAL AND MICROBIAL PROCESSES *Jim Ippolito, Kimberly, Idaho - United States*		S05.03c -4 BIOCHAR AND SOIL SURFACE ALBEDO *Frank Verheijen, Aveiro - Portugal*
	S05.03a -5 "OVERVIEW OF USDA-ARS BIOCHAR RESEARCH: IMPACTS ON SOIL QUALITY, CONTAMINANT BINDING, AND REDUCTIONS IN GREENHOUSE GASES EMISSIONS" *Jeff Novak, Florence, SC - United States*		S05.03c -5 WILL AGED BIOCHARS CONTINUE TO REDUCE N2O EMISSIONS? *Claudia Kammann, Gießen - Germany*
	S05.03a -6 THE EFFECTIVENESS OF USING BIOCHAR FOR PALM OIL ESTABLISHMENT IN DIFFERENT SOIL TYPES IN COSTA RICA *Tamara Benjamin, West Lafayette - United States*		S05.03c -6 BIOCHAR SUPPRESSION OF N2O EMISSIONS FROM AN AGRICULTURAL SOIL *Sean Case, Lancaster - United Kingdom*
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*		S05.03c -7 BIOCHAR SUPPRESSION OF N2O EMISSIONS FROM AN AGRICULTURAL SOIL *Sean Case, Lancaster - United Kingdom*

SPECIAL EVENTS

18.30-20.00	**BM06** **GENERAL ASSEMBLY OF THE EUROPEAN CONFEDERATION OF SOIL SCIENCE SOCIETIES (ECSSS)** *Chair Persons:* Nicola Senesi, Bari - Italy Teodoro Miano, Bari - Italy

THURSDAY 5 JULY 2012 - ROOM OLMO - Pavilion 10

ORAL SESSIONS

BLOCK I 08.30-10.00	**S02.03** **PEDODIVERSITY IN SPACE AND TIME: CONCEPTS, MEASUREMENTS, APPLICATIONS** *Chair Persons:* Juan Josè Ibanez, Valencia - Spain Giuseppe Lo Papa, Palermo - Italy	BLOCK III 13.30-15.00	**S04.01b** **APPLICATION OF PROXIMAL SOIL SENSING (PPS) IN SOIL SCIENCE** *Chair Person:* Raphael Viscarra Rossel, Clunies-Ross - Australia
	S02.03 -1 A QUALI-QUANTITATIVE EVALUATION APPROACH TO PEDODIVERSITY BY MULTIVARIATE ANALYSIS. INTRODUCTION TO THE CONCEPT OF "PEDOCHARACTER" *Andrea Buondonno, Caserta - Italy*		S04.01b -1 APPLICATION OF NON-INVASIVE METHODS FOR ASSESSING SOIL COMPACTION WITHIN AGRICULTURAL TRAMLINES *Peter Shanahan, Lancaster - United Kingdom*
	S02.03 -2 CHRONOSEQUENTIAL ALTERATIONS OF PROPERTIES OF POST-AGROGENIC STAGNIC ALBELUVISOLS IN THE TAIGA OF RUSSIA UNDER SELF-RESTORATION *Olga Kalinina, Oldenburg - Germany*		S04.01b -2 RELATIONSHIPS BETWEEN NEAR INFRARED REFLECTANCE (NIR) AND BIOLOGICAL AND CHEMICAL PROPERTIES OF FOREST SOILS IN THE CILENTO AND VALLO DI DIANO NATIONAL PARK (SOUTHERN ITALY) *Claudio Colombo, Campobasso - Italy*
	S02.03 -3 CARTOGRAPHIC AND CLASSIFICATION MODELS FOR REPRESENTATION OF THE TERRITORY PEDODIVERSITY *Nikolay Khitrov, Moscow - Russian Federation*		S04.01b -3 USING VNIR REFLECTANCE SPECTRA OF DRIED GROUND SOILS TO PREDICT PROPERTIES OF SOILS SCANNED MOIST AND INTACTOF SOILS SCANNED MOIST AND INTACT *Cristine Morgan, College Station - United States*
	S02.03 -4 PEDODIVERSITY IN A TROPICAL HIGHLAND COUNTRY. THE CASE OF RWANDA *Ann Verdoodt, Gent - Belgium*		S04.01b -4 COMPARISON OF NEAR- AND MID-INFRARED SPECTRA TO PREDICT SOIL ORGANIC CARBON AND TOTAL NITROGEN *Dinesh Babu Madhavan, Melbourne - Australia*
	S02.03 -5 PEDODIVERSITY ANALYSIS: STATE OF THE ART AND NEW CHALLENGES *Juan-José Ibáñez, Valencia - Spain*		S04.01b -5 LANDSCAPE SCALE DIGITAL SOIL MAPPING USING FIELD SCALE GEOPHYSICAL SENSING DATA *Karsten Schmidt, Tuebingen - Germany*
	S02.03 -6 PEDOSITES AS AN ELEMENT IN ASSESSMENT OF SOILSCAPE AND ECOTOURISM POTENTIAL: A STUDY IN A DESERT ECOSYSTEM OF NORTHERN CHILE *Alejandra Sepúlveda-Varas, Temuco - Chile*		S04.01b -6 THE OPTIMAL CALIBRATION SET SIZE AND THE SAMPLING STRATEGY FOR MODELING SOIL VIS–NIR SPECTRA AT THE FIELD SCALE *Leonardo Ramirez-Lopez, Louvain-la-Neuve - Belgium*
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*	*15.00-15.30*	*COFFEE BREAK - Bar Pavilion 9*
BLOCK II 10.30-12.00	**S04.01a** **APPLICATION OF PROXIMAL SOIL SENSING (PPS) IN SOIL SCIENCE** *Chair Person:* Annamaria Castrignanò, Bari - Italy	BLOCK IV 15.30-17.00	**S04.01c** **APPLICATION OF PROXIMAL SOIL SENSING (PPS) IN SOIL SCIENCE** *Chair Person:* Claudio Colombo, Campobasso - Italy
	S04.01a -1 GEOSTATISTICAL MONITORING OF SOIL SALINITY IN UZBEKISTAN BY REPEATED EM SURVEYS *Akmal Akramkhanov, Urgench - Uzbekistan*		S04.01c -1 OPTIMALISATION OF PASSIVE GAMMARAY SOIL SURVEYS *Eddie Loonstra, Groningen - Netherlands*
	S04.01a -2 CONSISTENCY OF SOIL PARTITION USING GEOELECTRICAL MEASUREMENTS AT TWO DIFFERENT WATER CONDITIONS *Daniela De Benedetto, Bari - Italy*		S04.01c -2 REPEATED GAMMA-RAY MEASUREMENTS USING A MOBILE DEVICE ON A RIVER FLOOD PLAIN AREA *Claudia Dierke, Leipzig - Germany*
	S04.01a -3 A LINEAR MIXED MODEL FOR SOIL WATER CONTENT ESTIMATION BASED ON GEOPHYSICAL SENSING: A COMPARISON WITH KRIGING WITH EXTERNAL DRIFT *Barbara Cafarelli, Foggia - Italy*		S04.01c -3 UNDERSTANDING THE GAMMA-RAY SIGNAL OF SOILS - TOWARDS A QUANTITATIVE UNDERSTANDING OF FACTORS, PROCESSES AND PROPERTIES *Ludger Herrmann, Stuttgart - Germany*
	S04.01a -4 DIGITAL SOIL MAPPING ON HETEROGENEOUS BEDROCK USING ELECTRICAL RESISTIVITY MEASUREMENTS *Florent Hinschberger, Tours - France*		S04.01c -4 TESTING THE IDENTIFICATION OF GENETIC HORIZONS IN POLISH SOILS WITH THE DIFFUSE REFLECTANCE SPECTROSCOPY *Krzysztof Kusneirek, Poznan - Poland*
	S04.01a -5 CONSTRUCTING A LAYERED ELECTRICAL CONDUCTIVITY MODEL FROM A COMBINATION OF PROXIMAL AND PROBE SENSOR DATA *Kristin Piikki, Skara - Sweden*		S04.01c -5 DETECTION OF ANCIENT ACTIVE CHANNEL ZONES USING HYDROGEOPHYSICAL METHODS: AN APPROACH FOR MORE EFFECTIVE CHANNEL RESTORATION *Daniel Altdorff, Leipzig - Germany*
	S04.01a -6 SOIL ELECTRICAL CONDUCTIVITY AND PLANT-AVAILABLE NUTRIENTS – A CASE STUDY *Robin Gebbers, Potsdam - Germany*		S04.01c -6 A RAPID, PORTABLE METHOD FOR ACQUIRING TERRAIN MODELS OF SOIL SURFACES *John Quinton, Lancaster - United Kingdom*
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*		

SPECIAL EVENTS

18.30-20.00	**BM02** **BUSINESS MEETING OF IUSS COMMISSION ON PALAEOPEDOLOGY** *Chair Person:* Daniela Sauer, Hohenheim - Germany

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ORAL SESSIONS

BLOCK I 08.30-10.00	**S11.09a** **UNDERSTANDING MINERAL-ORGANIC-MICROBIAL INTERACTIONS IN SOILS AND THE CONSEQUENCES FOR BIOLOGICAL AND BIOCHEMICAL ACTIVITY AND THE EFFICIENCY OF ROCK FLOUR AMENDMENTS** *Chair Persons:* Siobhan Staunton, Montpellier - France David Manning, Newcastle - United Kingdom	BLOCK III 13.30-15.00	**S07.01a** **SOIL ORGANIC MATTER FROM BULK TO MOLECULAR SCALE: INNOVATIVE METHODS AND APPLICATIONS** *Chair Persons:* Guido Wiesenberg, Bayreuth - Germany Jose A. Gonzalez-Perez, Sevilla - Spain
	S11.09a -1 INTERACTIONS OF SOIL ENZYMES IN SOIL AS REVEALED BY PROTEIN-DRIVEN DESORPTION *Flavio Fornasier, Gorizia - Italy*		S07.01a -1 SOIL CARBON STOCKS AND LOSSES IN A RECENTLY BURNT FOREST AREA IN NORTH-CENTRAL PORTUGAL *Sílvia Regina Faria, Aveiro - Portugal*
	S11.09a -2 CHARACTERIZATION OF HYDROLYSABLE ORGANIC PHOSPHORUS IN SOIL SUSPENSIONS AND SOIL WATER EXTRACTS USING ENZYME ADDITIONS *Kathrin E. Annaheim, Lindau - Switzerland*		S07.01a -2 CAN MOLECULAR MARKERS FOR PYROGENIC CARBON HELP TO RECONSTRUCT WILDFIRE TEMPERATURES? *Maximilian P.w. Schneider, Zurich - Switzerland*
	S11.09a -3 STABILIZATION OF ORGANIC N IN RECALCITRANT POOLS: A 15N LITTER LABELLING EXPERIMENT *Carolin Bimüller, Freising-Weihenstephan - Germany*		S07.01a -3 APPLICATION OF THERMAL AND SPECTROSCOPIC TECHNIQUES TO ASSESS THE STABILITY OF PYROGENIC ORGANIC MATTER IN A BURNT FOREST *Giovanni Mastrolonardo, Firenze - Italy*
	S11.09a -4 NANOSIMS IMAGING OF SOIL MICROAGGREGATES: A WINDOW ON THE PROCESSES RULING N DYNAMICS IN SOILS *Laurent Remusat, Paris - France*		S07.01a -4 MICROBIAL TRANSFORMATIONS OF ORGANIC ACIDS IN SOIL ASSESSED BY POSITION-SPECIFIC LABELLING OF PALMITATE AND 13C-PLFA ANALYSIS *Michaela Dippold, Bayreuth - Germany*
	S11.09a -5 BACTERIAL COMMUNITY IN ARTIFICIAL SOILS STRUCTURED BY MINERAL COMPOSITION AND CHARCOAL RESPONDED TO PHENANTHRENE *Doreen Babin, Braunschweig - Germany*		S07.01a -5 DEVELOPMENT OF A NOVEL TOOL FOR SOIL SCIENCE BASED ON COMPOUND-SPECIFIC DELTA18O ANALYSES OF (HEMI-)CELLULOSE-DERIVED MONOSACCHARIDES *Mario Tuthorn, Bayreuth - Germany*
			S07.01a -6 HYDRATION OF SUPRAMOLECULAR SOM STRUCTURE: THE COOPERATIVE RESPONSE OF SORBATE-SOM INTERACTIONS AND THE POSSIBLE ROLE OF ORGANIC SORBATE SIZE *Mikhail Borisover, Bet Dagan - Israel*
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*	*15.00-15.30*	*COFFEE BREAK - Bar Pavilion 9*
BLOCK II 10.30-12.00	**S11.09b** **UNDERSTANDING MINERAL-ORGANIC-MICROBIAL INTERACTIONS IN SOILS AND THE CONSEQUENCES FOR BIOLOGICAL AND BIOCHEMICAL ACTIVITY AND THE EFFICIENCY OF ROCK FLOUR AMENDMENTS** *Chair Persons:* David Manning, Newcastle - United Kingdom Siobhan Staunton, Montpellier - France	BLOCK IV 15.30-17.00	**S07.01b** **SOIL ORGANIC MATTER FROM BULK TO MOLECULAR SCALE: INNOVATIVE METHODS AND APPLICATIONS** *Chair Persons:* Eileen Eckmeier, Bonn - Germany Francisco J. Gonzalez-Vila, Sevilla - Spain
	S11.09b -1 ENZYMATIC OXIDATION OF CARBON INPUTS AS AFFECTED BY METAL-ORGANIC COMPLEXATION *Maria Hernandez-Soriano, Raleigh - United States*		S07.01b -1 MICROBIAL DEGRADATION OF ORGANIC COMPOUNDS (NATURAL COMPOUNDS, XENOBIOTICS, AND PESTICIDES) AND THE FORMATION OF SOIL ORGANIC MATTER OR BIOGENIC NON-EXTRACTABLE RESIDUES *Matthias Kaestner, Leipzig - Germany*
	S11.09b -2 TO WHAT EXTENT CLAY MINERALS AFFECT SOIL AGGREGATION? A QUANTITATIVE APPROACH BASED ON X-RAY PATTERNS MODELLING *Oihane Fernandez-Ugalde, Paris - France*		S07.01b -2 QUANTITATIVE AND QUALITATIVE CHARACTERISTICS OF SOM-FRACTIONS OBTAINED FROM CHEMICAL AND DENSITY FRACTIONATION *Marie I. Ludwig, Trier - Germany*
	S11.09b -3 ROCK FLOUR FERTILIZATION: NEW PERSPECTIVES FOR AN ANCIENT TECHNIQUE *David Manning, Newcastle upon Tyne - United Kingdom*		S07.01b -3 USEFULNESS OF 31P NMR TO ELUCIDATE PHOSPHATE-METAL-HUMIC COMPLEXES IN COMPLICATED MINERAL AND ORGANO-MINERAL MATRIXES *Roberto Baigorri, Orkoien - Spain*
	S11.09b -4 V.M. GOLDSCHMIDT AND COLLABORATORS - UNKNOWN ROCK POWDER PIONEERS – A REVIEW *Michael Heim, Aas - Norway*		S07.01b -4 NEW SYNTHETIC AND SEMISYNTHETIC APPLICATIONS TO MODIFY STRUCTURE OF SOIL HUMIC MATTER *Antonio Nebbioso, Portici - Italy*
	S11.09b -5 DECREASING CO2 EMISSION IN AGRICULTURE BY USING ROCK FLOUR AS AN ALTERNATIVE FOR AGRICULTURAL LIME AND POTASSIUM FERTILISERS *Rene Rietra, Wageningen - Netherlands*		S07.01b -5 EFFECT OF TEMPERATE ALLEY CROPPING SYSTEM ON SOME SOIL PROPERTIES IN SOUTH EASTERN TURKEY *Recep Gundogan, Kahramanmaras - Turkey*
	S11.09b -6 K-SILICATE MINERALS AS A SOURCE OF K FOR LEEKS (ALLIUM PORRUM) IN SANDY SOIL *Safiya Mohammed Othoman, Newcastle - United Kingdom*		S07.01b -6 METABOLIC PROCESSING OF N AND C FROM INDIVIDUAL AMINO ACIDS AND WHOLE DUNG: A COMPOUND-SPECIFIC DUAL STABLE ISOTOPE PROBING APPROACH *Timothy Knowles, Bristol - United Kingdom*
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*		S07.01b -7 COMBINING ANALYTICAL TECHNIQUES FOR SOIL ORGANIC MATTER CHARACTERIZATION IN THE FRENCH PREALPS: PARTICLE-SIZE FRACTIONATION, ROCK-EVAL PYROLYSIS AND MID-INFRARED SPECTROSCOPY *Anais Saenger, Grenoble - France*

SPECIAL EVENTS

18.30-20.00	**BM05** **JOINT MEETING OF THE C-N CROSSCUTTING TEAM AND CROPLANDS RESEARCH GROUP OF THE GLOBAL RESEARCH ALLIANCE (GRA)** *Chair Persons:* Jean-Francois Soussana, Paris - France Steven Shafer, Beltsville - United States Sylvie Recous, Reims - France Alan Franzluebbers, Beltsville - United States

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ORAL SESSIONS

	S07.03a **MOLECULAR DYNAMICS OF SOIL ORGANIC MATTER: CHALLENGES, OPPORTUNITIES AND LIMITS** *Chair Persons:* Boris Jansen, Amsterdam - Netherlands Ingrid Kögel-Knabner, Muenchen - Germany		**S09.02** **BIOGEOCHEMICAL INTERFACES IN SOIL: ARCHITECTURE, PROPERTIES AND FUNCTIONS** *Chair Person:* Kai Uwe Totsche, Jena - Germany
	07.03a -1 SCALING DOWN TO MOLECULES TO MODEL SOIL ORGANIC MATTER DYNAMICS: APPLICATION TO CARBOHYDRATE AND LIPIDS *Chabi Fabrice Elegbede, Nancy - France*		S09.02 -1 COMBINED VIS-NIR IMAGING SPECTROSCOPY AND NANOSIMS ANALYSES OF INTACT CORES OF PERMAFROST AFFECTED SOILS *Carsten W. Mueller, Freising - Germany*
	07.03a -2 COMPOUND-SPECIFIC 13C & 14C ANALYSIS OF SOIL LIPIDS ALONG A SAVANNA (C4)/EUCALYPTUS (C3) CHRONOSEQUENCE (POINTE-NOIRE, CONGO): NEW INSIGHTS TO RESOLVE SOIL ORGANIC CARBON DYNAMICS (DYNAMOS ANR-PROJECT) *Mercedes Mendez-Millan, Gif sur Yvette - France*		S09.02 -2 BIOGEOCHEMICAL INTERFACE DEVELOPMENT IN ARTIFICIAL SOILS *Geertje Pronk, Freising - Germany*
BLOCK I 08.30-10.00	07.03a -3 COUPLING POSITION-SPECIFIC LABELLING AND COMPOUND-SPECIFIC 13C-PLFA-ANALYSIS TO ASSESS MICROBIAL UTILIZATION OF AMINO ACIDS IN SOIL *Carolin Apostel, Bayreuth - Germany*	BLOCK III 13.30-15.00	S09.02 -3 THE SOIL-LITTER INTERFACE IS A HOTSPOT FOR BACTERIAL ALKANE-DEGRADATION *Julia Giebler, Leipzig - Germany*
	07.03a -4 CAN WE TRACE CHANGES IN ORGANIC MATTER QUALITY BY MULTI-ISOTOPE LABELLING (13C, 18O AND 2H)? *Mirjam S. Studer, Zurich - Switzerland*		S09.02 -4 CHARACTERIZATION OF IN-SITU WETTING PROPERTIES BY HIGH RESOLUTION CONTACT ANGLE MEASUREMENTS *Marc-Oliver Goebel, Hannover - Germany*
	07.03a -5 DYNAMICS OF DE NOVO FORMATION OF AMINO SUGARS IN SOIL VIA CSSIA - A PROMISING TOOL TO ASSESS MICROBIAL PHYSIOLOGY? *Samuel Bodé, Ghent - Belgium*		S09.02 -5 MPACT OF BIOLOGICAL ACTIVITY ON SOIL STRUCTURE BY THE COMBINED ANALYSIS OF SOIL THIN SECTIONS AND 0-20 µM SOIL FRACTIONS *Françoise Watteau, Vandoeuvre-lès-Nancy - France*
	07.03a -6 NANOTHERMAL CHARACTERIZATION OF HETEROGRNEITY AND DYNAMICS OF BIOGEOCHEMICAL PINTERFACES *Gabriele Ellen Schaumann, Landau - Germany*		S09.02 -6 ORGANO-MINERAL ASSOCIATIONS IN AN ANDISOL DEVELOPED FROM VOLCANIC ASHES (PART 1): DOES PARTICLE SIZE MATTER? *Maki Asano, Tsukuba - Japan*
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*	*15.00-15.30*	*COFFEE BREAK - Bar Pavilion 9*
	S07.03b **MOLECULAR DYNAMICS OF SOIL ORGANIC MATTER: CHALLENGES, OPPORTUNITIES AND LIMITS** *Chair Persons:* Ingrid Kögel-Knabner, Muenchen - Germany Boris Jansen, Amsterdam - Netherlands		**S09.01** **SOIL MICROMORPHOLOGY: A JOURNEY FROM SOIL GENESIS TO NEW INTERDISCIPLINARY ADVANCEMENTS** *Chair Persons:* Karl Stahr, Hohenheim - Germany Fabio Terribile, Napoli - Italy
	S07.03b -1 INFLUENCE OF SOURCE AND BOG HYDROLOGY ON LIGNIN DECOMPOSITION PARAMETERS IN OMBROTROPHIC PEAT *Judith Schellekens, Santiago - Spain*		S09.01 -1 PODZOL AND ALBELUVISOL DEVELOPMENT ON LAND SURFACES OF KNOWN AGE IN S NORWAY: PROCESSES OBSERVED IN THE FIELD AND UNDER THE MICROSCOPE *Daniela Sauer, Dresden - Germany*
	S07.03b -2 SOLUBLE PHENOLS REFLECT THE DECOMPOSITION OF LEAF AND NEEDLE LITTER *Thimo Klotzbücher, Halle - Germany*		S09.01 -2 TIME-EVOLUTION OF CONNECTED POROSITY DURING 120 KY WEATHERING OF BISHOP CREEK GRANODIORITE: NEW INSIGHT USING 14C-PMMA METHOD *Laurent Caner, Poitiers - France*
BLOCK II 10.30-12.00	S07.03b -3 LINKING SOIL ORGANIC MATTER DYNAMICS AND DISSOLVED ORGANIC MATTER IN SOIL DEPTH PROFILES *Gerd Gleixner, Jena - Germany*	BLOCK IV 15.30-17.00	S09.01 -3 PETROPLINTHITE FORMATION IN A QUATERNARY COMPLEX PALEOSOL ALONG NW ITALIAN COAST: FROM MICROMORPHOLOGY TO LANDSCAPE EVOLUTION. *Ivano Rellini, Genova - Italy*
	S07.03b -4 MOBILITY AND STABILITY OF ROOT AND NEEDLE SPECIFIC BIOMARKERS IN A LONG-TERM INCUBATION STUDY WITH CONTINUOUS LEACHING *Jens G. Altmann, Amsterdam - Netherlands*		S09.01 -4 ORIGIN OF CARBONATES IN TERMITE MOUNDS ON FERRALSOLS IN KATANGA, D.R. CONGO *Eric Van Ranst, Ghent - Belgium*
	S07.03b -5 CHANGES IN PLANT BIODIVERSITY, SOM CONTENT AND COMPOSITION IN A LONG TERM DRAINAGE EXPERIMENT *Katharina Wolf, Bayreuth - Germany*		S09.01 -5 MICROMORPHOLOGY AND CHEMISTRY OF BURIAL SOILS FROM CHALCOLITHIC GRAVES OF THE 3RD MILLENNIUM BC (MONTE CLARO CULTURE), NEAR GANNÌ, SARDINIA *Maria-raimonda Usai, York - United Kingdom*
	S07.03b -6 MORE AUTOCHTHONOUS AND RESIDUE-DERIVED C AND N ASSOCIATED IN ORGANO-MINERAL COMPLEXES IN THE SUBSOIL THAN TOPSOIL OF A HEAVY CLAY *Vincent Poirier, Québec - Canada*		S09.01 -6 SOIL MICROMORPHOLOGY FOR CONSTRUCTION SCIENCE: THE MORTAR ARCHAEOMETRY *Selim Kapur, Adana - Turkey*
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*		S09.01 -7 LASER ABLATION(LA)-ICP-MS ON SOIL THIN SECTIONS: A POWERFUL TOOL FOR ASSESSING TRACE ELEMENT DISTRIBUTION, PEDOGENETIC PROCESSES AND SOIL POLLUTION *Fabio Scarciglia, Arcavacata di Rende (CS) - Italy*

SPECIAL EVENTS

18.30-20.00	**TD01** **NEW TECHNIQUES FOR SOIL PARTICLE SIZE ANALYSIS: ADVANCEMENTS AND PROBLEMS** *Chair Persons:* Roberto De Mascellis, Ercolano - Italy Angelo Basile, Ercolano - Italy

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ORAL SESSIONS

	S11.04 **ORGANIC MATTER DECOMPOSITION: DOES SOIL DIVERSITY MATTER?** *Chair Persons:* Isabelle Bertrand, Reims - France Claude Plassard, Montpellier - France Sylvie Recous, Reims - France		**S02.01** **INITIAL SOILS – FORMATION, PROPERTIES AND THE ROLE OF STRUCTURES** *Chair Persons:* Wolfgang Schaaf, Cottbus - Germany Horst H. Gerke, Müncheberg - Germany
	S11.04 -1 TRACKING THE FATE OF LITTER DERIVED CARBON: WHY DOES SOIL BIODIVERSITY MATTER? *Jennifer L. Soong, Fort Collins - United States*		S02.01 -1 MODELLING THE INTERACTION BETWEEN PEDOGENESIS AND CLIMATE DYNAMICS *Garry Willgoose, Callaghan - Australia*
	S11.04 -2 SOIL MICROBIAL DIVERSITY AFFECTS ORGANIC MATTER DECOMPOSITION *Karen Baumann, Thiverval-Grignon - France*		S02.01 -2 ALTERATION OF SOIL ORGANIC MATTER DURING INITITAL MARSH SOIL DEVELOPMENT AT THE SOUTHERN NORTH SEA COAST *Luise Giani, Oldenburg - Germany*
BLOCK I 08.30-10.00	S11.04 -3 THE DIVERSITY OF DECOMPOSER MICROORGANISMS IN SOILS: PICTURES REVEALED BY METAGENOME, METATRANSCRIPTOME AND METAPROTEOME ANALYSIS *Petr Baldrian, Prague - Czech Republic*	BLOCK III 13.30-15.00	S02.01 -3 MECHANISMS OF ORGANIC MATTER ACCUMULATION ON GLACIER FOREFIELDS AND INLAND SAND DUNES DURING INITIAL SOIL FORMATION *Alexander Dümig, Freising-Weihenstephan - Germany*
	S11.04 -4 FUNGAL PEROXIDASES AND SOIL ORGANIC MATTER DECOMPOSITION: ARE ECTOMYCORRHIZAL CORTINARIUS SPECIES THE KEY PLAYERS? *Inga Bödeker, Uppsala - Sweden*		S02.01 -4 EVOLUTION AND TRANSFORMATION OF MINERAL MATERIALS OF COAL-MINE SPOIL HEAPS: INDICATORS OF PEDOGENESIS *Arnaud Gauthier, Villeneuve d'Ascq - France*
	S11.04 -5 CHANGES IN LITTER AND ROOT QUALITY AS PREDICTOR OF SOIL BIOTA DYNAMICS ALONG A SUCCESSIONAL GRADIENT ON A TEMPERATE CHALK HILLSIDE *Gabriel Perez, Mont Saint Aignan - France*		S02.01 -5 VISUALIZATION OF SOIL STRUCTURE MODIFICATIONS AND INFILTRATION PATTERNS BY GROUND-DWELLING BEETLE LARVAE AND MOSS VEGETATION *Annika Badorreck, Cottbus - Germany*
	S11.04 -6 MODELING LITTER DECOMPOSITION: MICROBIAL AND LITTER BIOCHEMISTRY CONTROLS *Gwenaëlle Lashermes, Reims - France*		S02.01 -6 TRANSFORMATION OF 13C-LABELLED LITTER IN SANDY, INITIAL SOILS *Claudia Zimmermann, Cottbus - Germany*
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*	*15.00-15.30*	*COFFEE BREAK - Bar Pavilion 9*
	S04.07 **SYNCHROTRON RADIATION IN SOIL SCIENCE: APPLICATIONS AND METHOD DEVELOPMENT** *Chair Persons:* Melissa Anne Denecke, Karlsruhe - Germany Thilo Behrends, Utrecht - Netherlands		**S01.03** **EVOLUTION AND PROPERTIES OF PADDY AND WETLAND SOILS** *Chair Persons:* Arwyn Jones, Ispra - Italy Bernd Lennartz, Rostock - Germany Ingrid Kögel-Knabner, Muenchen - Germany
	S04.07 -1 CHEMICAL SPECIATION OF TRACE ELEMENTS IN SOILS USING X-RAY ABSORPTION SPECTROSCOPY *Andreas Voegelin, Duebendorf - Switzerland - Invited*		S01.03 -1 CANADIAN PEATLANDS AND THEIR ROLE IN CLIMATE CHANGE *Charles Tarnocai, Ottawa - Canada*
	S04.07 -2 RECENT ADVANCES IN HARD X-RAY FLUORESCENCE MAPPING AND TOMOGRAPHY OPEN NEW AVENUES FOR BIOGEOCHEMICAL RESEARCH *Erica Donner, Adelaide - Australia*		S01.03 -2 EFFECT OF IRON AND ALUMINUM BASED COAGULANTS ON METHANE EMISSION AND PATHWAYS IN A WETLAND SOIL *Yumiko Henneberry, Davis - United States*
BLOCK II 10.30-12.00	S04.07 -3 SHEDDING SYNCHROTRON LIGHT ON INTERNAL STRUCTURES OF SOILS - APPLICATIONS OF ADVANCED X-RAY MICROSCOPY *Stephan Peth, Kiel - Germany - Invited*		S01.03 -3 LIGNIN DECOMPOSITION UNDER ALTERNATING REDOX CONDITIONS *Chiara Cerli, Amsterdam - Netherlands*
	S04.07 -4 SYNCHROTRON X-RAY AND ELECTRON MICRO-PROBE STUDY OF CONTAMINATED DREDGED SEDIMENTS *Antonine Poitevin, Orleans - France*	BLOCK IV 15.30-17.00	S01.03 -4 VARIATION OF SOIL MICROBIAL COMMUNITY STRUCTURE AND RHIZODEPOSIT CARBON ASSIMILATION IN PADDY FIELDS *Pascal Boeckx, Gent - Belgium*
	S04.07 -5 SOFT X-RAY SPECTROMICROSCOPY OF NATURAL ORGANICS AFFECTING ACTINIDE MOBILITY – AN OVERVIEW *Markus Plaschke, Karlsruhe - Germany*		S01.03 -5 NITROGEN IMMOBILIZATION IN PADDY SOILS AS AFFECTED BY REDOX CONDITIONS AND RICE STRAW INCORPORATION *Daniel Said-Pullicino, Grugliasco - Italy*
	S04.07 -6 ARSENIC SPECIATION AND MOBILITY IN MINING-AFFECTED RIVER FLOODPLAIN SOILS: X-RAY ABSORPTION SPECTROSCOPY AND COLUMN STUDIES *Ruben Kretzschmar, Zurich - Switzerland*		S01.03 -6 LONG TERM BLACK CARBON SEQUESTRATION IN CHINESE PADDY-WHEAT ROTATION SYSTEMS *Eva Lehndorff, Bonn - Germany*
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*		S01.03 -7 EFFECTS OF SCALE ON SOIL STRUCTURE AND SPATIAL PATTERNS OF SOIL PROPERTY DISTRIBUTION IN PADDY SOILS IN SOUTHEAST CHINA *Rainer Duttmann, Kiel - Germany*
			S01.03 -8 PHASES OF PADDY SOIL EVOLUTION FROM MARSHLANDS (ZHEJIANG PROVINCE, CHINA) *Angelika Kölbl, Freising - Germany*

SPECIAL EVENTS

18.30-20.00	**OD01** **SOIL SCIENCE EDUCATION: HOW CAN WE MAKE SOILS SEXY AGAIN?** *Chair Person:* Philippe C. Baveye, Troy - United States

THURSDAY 5 JULY 2012 - ROOM MIRTO - Pavilion 10

ORAL SESSIONS

BLOCK I 08.30-10.00	**S08.04a** **DYNAMIC NON-EQUILIBRIUM OF FLOW IN UNSATURATED POROUS MEDIA** *Chair Person:* *Andre Peters, Berlin* - Germany	BLOCK III 13.30-15.00	**S01.02** **WETLAND, FLOODPLAIN, RIPARIAN SOILS: PROPERTIES, PROCESSES AND ECOLOGICAL FUNCTIONS** *Chair Persons:* Jörg Luster, Birmensdorf - Switzerland Claire Guenat, Lausanne - Switzerland
	S08.04a -1 HOW DOES COMPACTION INFLUENCE PREFERENTIAL FLOW IN SOIL? *Mona Mossadeghi-Björklund, Uppsala - Sweden*		S01.02 -1 WETLAND, FLOODPLAIN, RIPARIAN SOILS: THE EFFECT OF NITROGEN LOADING ON THEIR ECOLOGICAL FUNCTIONS *Mariet Hefting, Utrecht - Netherlands*
	S08.04a -2 NUMERICAL DETERMINATION OF EFFECTIVE HYDRODYNAMIC PROPERTIES FOR AN HETEROGENEOUS SOIL *Virginie Rossa, Avignon - France*		S01.02 -2 PROPERTIES, CLASSIFICATION, AND DYNAMICS OF FLOODPLAIN SOILS *Jörg Rinklebe, Wuppertal - Germany*
	S08.04a -3 REVIEW ON NON-EQUILIBRIUM WATER FLOW IN SOIL *Wolfgang Durner, Braunschweig - Germany*		S01.02 -3 AGGREGATE FORMATION IN RIPARIAN SOILS *Markus Graf, Berlin - Germany*
	S08.04a -4 EFFECT OF NON-EQUILIBRIUM SOLID SURFACE WETTING PROPERTIES ON TIME-DEPENDENT CAPILLARY RISE *Agnieszka Reszkowska, Hannover - Germany*		S01.02 -4 NITRATE LEACHING FROM SHORT-HYDROPERIOD FLOOPLAIN SOILS *Elisabeth Graf Pannatier, Birmensdorf - Switzerland*
	S08.04a -5 DYNAMIC NON-EQUILIBRIUM EFFECTS IN SOIL HYDRAULIC PROPERTIES ESTIMATED WITH THE EVAPORATION METHOD: EXPERIMENTAL AND MODELING APPROACH *Efstathios Diamantopoulos, Braunschweig - Germany*		S01.02 -5 FOOD WEBS AND ECOSYSTEM SERVICES IN CALIFORNIA RIPARIAN OAK WOODLANDS *Amanda Hodson, Davis - United States*
			S01.02 -6 SOIL BIOTA AND ECOLOGICAL PROCESSES IN RIPARIAN HABITATS *Matthieu Chauvat, Rouen - France*
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*	*15.00-15.30*	*COFFEE BREAK - Bar Pavilion 9*
BLOCK II 10.30-12.00	**S08.04b** **DYNAMIC NON-EQUILIBRIUM OF FLOW IN UNSATURATED POROUS MEDIA** *Chair Person:* Wolfgang Durner, Braunschweig - Germany	BLOCK IV 15.30-17.00	**S05.02** **IMPACTS OF SOIL AMENDMENTS ON TRANSFORMATION AND SORPTION OF BIOLOGICALLY ACTIVE SUBSTANCES IN SOIL** *Chair Persons:* Robert Kreuzig, Braunschweig - Germany Ruben Sakrabani, Cranfield - United Kingdom
	S08.04b -1 HYDRAULIC NON-EQUILIBRIUM DURING INFILTRATION INDUCED BY STRUCTURAL CONNECTIVITY *Steffen Schlüter, Halle - Germany*		S05.02 -1 IMPACTS OF SOIL AMENDMENTS ON FATE AND BEHAVIOR OF POLLUTANTS IN SOIL *Robert Kreuzig, Braunschweig - Germany*
	S08.04b -2 STUDY OF MACROPORE FLOW USING ELECTRICAL RESISTIVITY TOMOGRAPHY? *Ursula Noell, Hannover - Germany*		S05.02 -2 CHARACTERIZING THE HETEROGENEITY OF PIG SLURRY AND RESULTING EFFECTS ON TRANSPORT OF PHARMACEUTICAL ANTIBIOTICS IN SOIL *Sören Thiele-Bruhn, Trier - Germany*
	S08.04b -3 THE PROCESS OF IN SITU WATER INFILTRATION IN STRUCTURED AND NON-STRUCTURED FIELD SOILS: COMPLEMENTARY ANALYSIS OF GEOPHYSICAL ERT DETECTION AND SOIL HYDRAULIC MEASUREMENTS *Christina Ganz, Hannover - Germany*		S05.02 -3 PHYSICOCHEMICAL AND SORPTION PROPERTIES OF THERMALLY-TREATED SEDIMENTS WITH HIGH ORGANIC MATTER CONTENT *Pan Bo, Kunming - China*
	S08.04b -4 FRONT INSTABILITY IN STRATIFIED MEDIA: SIMULATION USING PHASE-FIELD MODEL AND EXPERIMENTS *Philippe Beltrame, Avignon - France*		S05.02 -4 EFFECT OF BIOCHAR PROPERTIES AND WEATHERING ON SORPTION OF THE SWINE ANTIBIOTIC SULFAMETHAZINE IN BIOCHAR-AMENDED SOILS *Joseph Pignatello, New Haven - United States*
	S08.04b -5 INFLUENCE OF VISCOUS FINGERING ON CAPILLARY PRESSURE VERSUS SATURATION CURVES DURING DRAINAGE *Yves Meheust, Rennes - France*		S05.02 -5 THE USE OF BIOCHAR TO MINIMIZE THE BIOAVAILABILITY OF POLYCHLORINATED BIPHENYLS (PCBS) AT CANADIAN BROWNFIELD SITES *Mackenzie Denyes, Kingston - Canada*
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*		S05.02 -6 INFLUENCE OF SEWAGE SLUDGE TREATMENT AND APPLICATION TO AN ACID AND A NEUTRAL SOIL ON THE GROWTH AND METAL UPTAKE OF BRASSICA NAPUS *Marco Contin, Udine - Italy*
			S05.02 -7 IMPACTS OF SOIL AMENDED SUPERABSORBENT POLYMERS ON THE EFFICIENCY OF IRRIGATION MEASURES IN JORDANIAN AGRICULTURE *Amjad Al Tarawneh, Braunschweig - Germany*

THURSDAY 5 JULY 2012 - FIRST FLOOR - Pavilion 10

POSTER SESSIONS

17.00-18.30	**S01.02-P** **WETLAND, FLOODPLAIN, RIPARIAN SOILS: PROPERTIES, PROCESSES AND ECOLOGICAL FUNCTIONS**
	S01.02-P -1 BIOGEOCHEMISTRY OF METALS IN RIVER FLOODPLAINS AND CONSEQUENCES FOR BIOAVAILABILITY FOR PLANTS AND SOIL ORGANISMS *Sjoerd Van Der Zee, Wageningen - Netherlands*
	S01.02-P -2 CARBON DYNAMICS IN SOIL AND FINE ROOT BIOMASS OF RIPARIAN FORESTS *Isaak Rieger, Berlin - Germany*
	S01.02-P -3 CATEGORIZING BASIC FACTORS DRIVING SOIL GENESIS, PEDOVARIABILITY AND PLANT ASSEMBLAGES IN MEDITERRANEAN TEMPORARY WETLANDS (TWS) *Gian Franco Capra, Nuoro - Italy*
	S01.02-P -4 DRAINAGE EFFECTS ON LABILE ORGANIC CARBON FRACTION IN TOPSOIL OF PEATLANDS *Barbara Kalisz, Olsztyn - Poland*
	S01.02-P -5 HIGH-RESOLUTION MONITORING OF THE AIR- AND WATER BALANCE IN A CALCARIC GLEYSOL OF THE MARSH IN SCHLESWIG-HOLSTEIN, NORTHERN GERMANY *Kristof Dorau, Cologne - Germany*
	S01.02-P -6 HOT ZONES OF SOIL NITROGEN CYCLING IN FLOODPLAINS OF A PERIALPINE RIVER *Joerg Luster, Birmensdorf - Switzerland*
	S01.02-P -7 IMPACT OF RIVER RESTORATION ON CARBON STORAGE IN SWISS FLOODPLAINS *Geraldine Bullinger-Weber, Lausanne - Switzerland*
	S01.02-P -8 IMPACTS OF SURFACE MINING ON PEATLAND FUNCTIONS AND RECONSTRUCTION OF NEW ECOSYSTEMS IN THE OIL SAND DEVELOPMENT AREA OF NORTHEASTERN ALBERTA *Felix C. Nwaishi, Waterloo - Canada*
	S01.02-P -9 INFORMATIVENESS OF THE COMPOSITION OF LYSIMETRIC WATER *Galina Motuzova, Moscow - Russian Federation*
	S01.02-P -10 INVESTIGATION OF THE ENVIRONMENTAL CHANGES PRODUCED BY HUMAN ACTIVITY ON EXAMPLES OF A SODIC LAND AND A KARST LAND *Tünde Nyilas, Szeged - Hungary*
	S01.02-P -11 LAND USE DURATION DIFFERENTIALLY AFFECTS WETLAND SOIL PRODUCTIVITY IN EAST AFRICA *Christian Dold, Bonn - Germany*
	S01.02-P -12 RESTORATION OF ECOLOGICAL FUNCTIONS IN A WET MEADOW ON PEAT SOIL: A 3 YEARS POST OPERATION SURVEY IN THE ESTUARY OF SEINE RIVER (FRANCE) *Chockri Mchergui, Rouen - France*
	S01.02-P -13 SOIL CARBON AND NUTRIENT CYCLING IN SOUTHEASTERN AUSTRALIAN RIPARIAN ZONES *Timothy Cavagnaro, Melbourne - Australia*
	S01.02-P -14 SOIL PROPERTIES AND WATER DISCHARGE NO3- UNDER INTENSIVE IRRIGATED AGRICULTURE IN A DEGRADED SEMI-ARID MEDITERRANEAN CATCHMENT *Juan José Jiménez, Jaca - Spain*
	S01.02-P -15 USE OF CONSTRUCTED WETLANDS FOR TREATING RUNOFF FROM PEAT EXTRACTION AREAS *Heini Postila, Oulu - Finland*
	S01.02-P -16 WATER EXTRACTABLE ORGANIC MATTER IN A RECENTLY RESTORED FLOODPLAIN: THE CASE OF THE THUR RIVER IN NORTHERN SWITZERLAND *Hans-Rudolf Pfeifer, Lausanne - Switzerland*
	S01.03-P **EVOLUTION AND PROPERTIES OF PADDY AND WETLAND SOILS**
	S01.03-P -1 CHANGES IN THE IRON MINERAL ASSEMBLAGE UPON 2000 YEARS OF PADDY CULTIVATION *Vanessa Vogelsang, Halle - Germany*
	S01.03-P -2 DOES CROP RESIDUE MANAGEMENT INFLUENCE FERTILIZER USE EFFICIENCY IN IRRIGATED RICE? *Dario Sacco, Grugliasco - Italy*
	S01.03-P -3 DRIVING FACTORS OF SOIL FERTILITY IN MOUNTAIN TERRACED PADDY FIELDS OF YUANYANG (CHINA) *Colinet Gilles, Gembloux - Belgium*
	S01.03-P -4 EFFECT OF WATER MANAGEMENT ON DYNAMICS OF RECENTLY FIXED C IN PLANT-SOIL SYSTEM AND MICROBIAL COMMUNITY AT DIFFERENT STAGES OF PLANT GROWTH *Jing Tian, Göttingen - Germany*
	S01.03-P -5 EVOLUTION OF MAGNETIC PROPERTIES AND THEIR PEDOGENETIC IMPLICATIONS FOR THE PADDY SOIL CHRONOSEQUENCES FROM DIFFERENT PARENT MATERIALS IN SOUTH CHINA *Gan-Lin Zhang, Nanjing - China*
	S01.03-P -6 INCREASED CO2 FLUXES UNDER WARMING TESTS AND SOIL SOLUTION CHEMISTRY IN A HISTIC CRYOSOL FROM SALLUIT, NUNAVIK (QC, CANADA) *Julien Fouché, Aix en Provence - France*

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POSTER SESSIONS

	S01.03-P -7 LIMITATION OF MECHANICAL ANALYSIS OF SHRINKAGE AND SWELLING OF PADDY SOIL -FROM THREE YEARS MONITORING OF WRC IN A PADDY FIELD- *Shuichiro Yoshida, Tokyo - Japan*
	S01.03-P -8 MAGNESIUM SULPHATE VERTIC PADDY SOILS IN THE NIGER RIVER VALLEY (KOLLO, NIGER) *Issifou Adam, Rennes - France*
	S01.03-P -9 MECHANISMS OF PADDY SOIL CRACKS GENERATION AND ITS CONSEQUENCES ON PREFERENTIAL FLOW *Xinhua Peng, Nanjing - China*
	S01.03-P -10 MODELING THE FATE OF PESTICIDES IN PADDY RICE – FISH POND FARMING SYSTEMS IN NORTHERN VIETNAM *Marc Lamers, Stuttgart - Germany*
	S01.03-P -11 NITROGEN AVAILABILITY IN FERTILIZED PADDY SOILS AS A FUNCTION OF REDOX CONDITIONS AND RICE STRAW INCORPORATION *Maria Alexandra Cucu, Grugliasco - Italy*
	S01.03-P -12 ORGANIC CARBON ACCUMULATION IN A 2000-YEAR CHRONOSEQUENCE OF PADDY SOIL EVOLUTION *Livia Wissing, Freising - Germany*
	S01.03-P -13 PHYSICO-CHEMICAL PROPERTIES OF PEAT SOIL AT DIFFERENT DEGREE OF ORGANIC MATTER DECOMPOSITION IN DEEP SOIL PROFILES *Anna Szafranek-Nakonieczna, Lublin - Poland*
	S01.03-P -14 PROCESS AND AMOUNT OF GASEOUS EMISSION FROM A TROPICAL PEATLAND FIRE OBSERVED IN A FIELD EXPERIMENT IN CENTRAL KALIMANTAN, INDONESIA *Yohei Hamada, Sapporo - Japan*
	S01.03-P -15 SHIFTS OF NITROGEN TRANSFORMING MICROBIAL COMMUNITIES DURING PADDY SOIL EVOLUTION *Michael Schloter, Neuherberg - Germany*
	S01.03-P -16 SPATIAL DISTRIBUTION OF SOIL ORGANIC CARBON DURING PADDY SOIL EVOLUTION *Angelika Kölbl, Freising - Germany*
	S01.03-P -17 STABILIZATION OF ORGANIC MATTER UNDER DIFFERENT REDOX CONDITIONS *Alexander Hanke, Amsterdam - Netherlands*
17.00-18.30	S01.03-P -18 SUBSOIL CARBON DYNAMICS UNDER PADDY MANAGEMENT *Tino Bräuer, Kiel - Germany*
	S01.03-P -19 THE CONTRIBUTION OF MINERALIZATION TO GRASSLAND N UPTAKE ON PEATLAND SOILS WITH ANTHROPOGENIC A HORIZONS *Marthijn Sonneveld, Wageningen - Netherlands*
	S01.03-P -20 THE FATE OF PESTICIDES IN A RICE PADDY WATERSHED IN NORTHERN VIETNAM *Thomas Gut, Stuttgart - Germany*
	S01.03-P -21 VERTIC PROPERTIES AND RELICS OF GILGAI MICRORELIEF IN STAGNIC CHERNOZEMS ON THE SILESIAN LOWLAND, SW POLAND *Cezary Kabala, Wroclaw - Poland*
	S01.03-P -22 WORLD ATLAS OF ORGANOC SOILS IN PEATLAMDS *Luca Montanarella, Ispra - Italy*
	S01.03-P -23 ZINC DYNAMICS ASSOCIATED WITH REDOX-ACTIVE SPECIES IN SELECTED PADDY SOILS *Susan Tandy, Zürich - Switzerland*
	S02.02-P **EARLY ECOSYSTEM AND SOIL DEVELOPMENT**
	S02.02-P -1 A GUIDELINE FOR THE DEVELOPMENT OF AN INTEGRATED AND DYNAMIC MODEL OF SOIL-PLANT SYSTEM EVOLUTION *Sophie Leguédois, Nancy - France*
	S02.02-P -2 ACCUMULATION OF CARBON IN POST MINING SOILS A QUANTITATIVE REVIEW *Olga Vinduskova, Prague - Czech Republic*
	S02.02-P -3 CHEMICAL AND BIOLOGICAL GRADIENTS ALONG THE DAMMA GLACIER SOIL CHRONOSEQUENCE (SWITZERLAND) *Stefano M. Bernasconi, Zurich - Switzerland*
	S02.02-P -4 DEVELOPMENT OF SOIL CARBON POOLS AND SOIL PROPERTIES OF RESTORED BIRCH WOODLAND SITES IN SOUTHERN ICELAND *Matthias Hunziker, Basel - Switzerland*
	S02.02-P -5 DROP ON STONE - A NEW TOOL FOR THE QUANTIFICATION OF BIOAVAILABLE ELEMENTS FROM WEATHERED ROCK SURFACES *Natascha Torres, Kastanienbaum - Switzerland*
	S02.02-P -6 EXTRACELLULAR SOIL DNA: A DRIVING FORCE OF MICROBIAL LIFE IN INITIAL STAGES OF SOIL DEVELOPMENT? *Judith Ascher, Florence - Italy*

THURSDAY 5 JULY 2012 - FIRST FLOOR - Pavilion 10

POSTER SESSIONS

17.00-18.30	S02.02-P -7 INFLUENCE OF SOIL HETEROGENEITY ON THE SPECIES COMPOSITION OF PLANT COMMUNITIES IN LANDS MINED FOR COAL IN SPAIN *Daphne López Marcos, Palencia - Spain*
	S02.02-P -8 INITIAL SOILS AND SOIL SOLUTION COMPOSITION IN AN ARTIFICIAL CATCHMENT *Wolfgang Schaaf, Cottbus - Germany*
	S02.02-P -9 MOVING FORWARD WITH UNIVERSAL SOIL CLASSIFICATION *Jonathan Hempel, Lincoln – United States*
	S02.02-P -10 PRIMARY COLONIZATION AND SOIL NEO-GENESIS IN DEGLACIATING ENVIRONMENTS AT HIGH ALTITUDE AND LOW LATITUDES: THE CASE OF THE LOBUCHE GLACIER (EVEREST MOUNTAIN - NEPAL) *Barbara Scaglia, Milan - Italy*
	S02.02-P -11 ROLE OF CARBOXYLATES RELEASED BY MICROORGANISMS AND ROOTS OF ALPINE PIONEER PLANTS IN MOBILISING P AND METAL CATIONS DURING EARLY SOIL FORMATION *Joerg Luster, Birmensdorf - Switzerland*
	S02.02-P -12 THE CONTRIBUTION OF BACTERIAL CELL WALL FRAGMENTS TO THE FORMATION OF SOIL ORGANIC MATTER - A CASE STUDY FROM A GLACIER FOREFIELD *Christian Schurig, Leipzig - Germany*
	S02.02-P -13 UNDERSTANDING THE FLUVIAL CRITICAL ZONE *Nico Bätz, Lausanne - Switzerland*
	S04.07-P **SYNCHROTRON RADIATION IN SOIL SCIENCE: APPLICATIONS AND METHOD DEVELOPMENT**
	S04.07-P -1 EVAPORATION INDUCED ORDER IN AQUEOUS SOFT SOLID PHASES OF CLAYS *Elisabeth Lindbo Hansen, Trondheim - Norway*
	S04.07-P -2 EXAFS STUDIES OF SOIL IRON IN RELATION TO BIOLOGICAL PARAMETERS *Edith Hammer, Roskilde - Denmark*
	S04.07-P -3 EXPLORATION OF SYNCHROTRON RADIATION TO VISUALIZE WATER/AIR MENISCI IN SMALL SOIL SAMPLES AT DIFFERENT WATER POTENTIALS *Valerie Pot, Thiverval-Grignon - France*
	S04.07-P -4 HIGH RESOLUTION X-RAY COMPUTED TOMOGRAPHY (XCT) OF SOIL AND ROOT STRUCTURES *Samuel Keyes, Southampton - United Kingdom*
	S04.07-P -5 REDUCTION OF MANGANESE OXIDES BY SULFIDE STUDIED BY IN SITU XAFS MEASUREMENTS *Thilo Behrends, Utrecht - Netherlands*
	S04.07-P -6 SPATIALLY RESOLVED QUANTITATIVE DETERMINATION OF IRON (FE) IN PLANTS BY MEANS OF SYNCHROTRON MICRO X-RAY FLUORESCENCE *Roberto Terzano, Bari - Italy*
	S04.07-P -7 SPECIATION OF COPPER AND ARSENIC ENRICHED IN AGRICULTURAL LIME *Michael Kersten, Mainz - Germany*
	S04.07-P -8 SYNCHROTRON X-RAY SCATTERING STUDIES OF SOFT NANOSTRUCTURES IN FLUOROHECTORITE CLAY *Jon Otto Fossum, Trondheim - Norway*
	S04.07-P -9 X-RAY ABSORPTION STUDY OF AS(V) SPECIATION IN IRON RICH SOILS *Juan Antelo, Santiago de Compostela - Spain*
	S05.02-P **IMPACTS OF SOIL AMENDMENTS ON TRANSFORMATION AND SORPTION OF BIOLOGICALLY ACTIVE SUBSTANCES IN SOIL**
	S05.02-P -1 A NOVEL SYNTHESIZED MN (OXY)HYDROXIDE AS A POSSIBLE AMENDMENT FOR METAL STABILIZATION IN CONTAMINATED SOILS *Michael Komarek, Prague - Czech Republic*
	S05.02-P -2 ACTIVATED BIOCHARS FOR THE IN-SITU SEQUESTRATION OF ORGANICS, MERCURY AND CARBON IN SEDIMENTS *Upal Ghosh, Baltimore - United States*
	S05.02-P -3 IMPACT OF HYDROCHAR APPLICATION ON SOIL NUTRIENT DYNAMICS AND PLANT AVAILABILITY *Inge Bargmann, Berlin - Germany*
	S05.02-P -4 OPTIMISING PHOSPHORUS SUPPLY FROM NUTRIENT ENRICHED SLUDGE GRANULES USING DIFFUSIVE GRADIENT IN THIN FILMS (DGT) *Ruben Sakrabani , Cranfield - United Kingdom*
	S05.02-P -5 PREPARATION OF MAIZE-DERIVED BIOCHAR FROM PYROLYSIS AND HYDROTHERMAL TREATMENT FOR SORPTION EXPERIMENTS *Judith Pielert, Berlin - Germany*
	S05.02-P -6 SUSTAINABLE LAND-USE BY REGIONAL ENERGY AND MATERIAL FLOW MANAGEMENT USING “TERRA-PRETA-TECHNOLOGY” ON MILITARY CONVERSION AREAS AND LOW-YIELD-LOCATIONS (LATERRA) *Konstantin Terytze, Berlin - Germany*

THURSDAY 5 JULY 2012 - FIRST FLOOR - Pavilion 10

POSTER SESSIONS

17.00-18.30	S05.02-P -7 THE HETEROGENEITY OF PIG SLURRY AND HIS INFLUENCE ON SOIL *Diana Hofmann, Julich - Germany*
	S05.02-P -8 UNDERSTANDING PHOSPHORUS (P) DYNAMICS IN SOILS AMENDED WITH REPEATED APPLICATION OF DIFFERENT ORGANIC AMENDMENTS USING THE DIFFUSIVE GRADIENTS IN THIN-FILMS (DGT) TECHNIQUE *David Kane , Cranfield - United Kingdom*
	S07.01-P **SOIL ORGANIC MATTER FROM BULK TO MOLECULAR SCALE: INNOVATIVE METHODS AND APPLICATIONS**
	S07.01-P -1 14C STUDY ON THE FATE OF ISOPROTURON APPLIED TO AGRICULTURAL SOILS OF MOROCCO *Ahmed Bouhaouss, Rabat - Morocco*
	S07.01-P -2 AN INTEGRATED PHYSICAL-CHEMICAL PROCEDURE TO MONITOR SOIL ORGANIC CARBON CHANGES IN SHORT-TERM STUDIES *Hamada Abdelrahman, Bari - Italy*
	S07.01-P -3 APPROACHES TO ESTIMATION OF SOIL ORGANIC CARBON STOCK ON NATIONAL SCALE *Gabriela Barancikova, Presov - Slovakia*
	S07.01-P -4 ASSESSMENT OF SOIL ORGANIC CARBON FRACTIONS ALTERED BY PRESCRIBED FIRE IN LOWLAND FORESTS OF SOUTH-EASTERN AUSTRALIA *Saravanan Krishnaraj, Creswick - Australia*
	S07.01-P -5 CHARACTERIZATION OF FERRIHYDRITE-HUMIC SUBSTANCE (FE-HS) COPRECIPITATES BY TRANSMISSION ELECTRON MICROSCOPY (TEM) AND DYNAMIC LIGHT SCATTERING (DLS) *Ruggero Angelico, Campobasso - Italy*
	S07.01-P -6 COMBINED QUANTIFICATION OF FAECAL STEROIDS AND ANALYSIS OF THEIR BINDING TYPES IN SOILS *Jago Birk, Halle (Saale) - Germany*
	S07.01-P -7 DIFFERENTIATION OF MICROBIAL COMMUNITIES IN DEEP SUBSOIL AS A FUNCTION OF DISTANCE FROM CALCIFIED ROOTS – ASSESSED BY GDGTS AND 16S RRNA GENES *Martina Gocke, Bayreuth - Germany*
	S07.01-P -8 DOUBLE-SHOT THERMOCHEMOLYSIS FOR SOIL ORGANIC MATTER CHARACTERISATION APPLIED TO AN OMBROTROPHIC PEAT BOG (JURA MOUTAINS, EAST FRANCE) *Laurent Grasset, Poitiers - France*
	S07.01-P -9 FATE OF LOW MOLECULAR WEIGHT ORGANIC SUBSTANCES IN SOIL EVALUATED BY 13C APPLICATION IN A FIELD EXPERIMENT *Anna Gunina, Goettingen - Germany*
	S07.01-P -10 HOW ARE SOIL CARBON DYNAMICS AFFECTED BY BLACK CARBON VS. LITTER INPUTS? *Jennifer L. Soong, Fort Collins - United States*
	S07.01-P -11 IDENTIFYING POTENTIAL ANTIOXIDANT COMPOUNDS IN NAOH EXTRACTS OF UK SOILS AND VEGETATION *André Schlichting, Rostock - Germany*
	S07.01-P -12 IMPACTS OF LAND USE CHANGE ON CARBOHYDRATES, PROTEINS AND SOIL AGGREGATES AS DEPENDENT ON TIME *Marie Spohn, Göttingen - Germany*
	S07.01-P -13 IMPROVED QUANTIFICATION OF PYROGENIC CARBON IN SOILS BY A HPLC-DAD METHOD *Daniel B. Wiedemeier, Zurich - Switzerland*
	S07.01-P -14 MICROBIAL TRANSFORMATION OF AMINO ACIDS IN SOIL ASSESSED BY POSITION-SPECIFIC LABELLING OF ALANINE *Michaela Dippold, Bayreuth - Germany*
	S07.01-P -15 MODIFICATION OF PLANT BIOMARKERS BY CHARRING AND DURING THE INITIAL PHASE OF BIODEGRADATION OF PYROGENIC ORGANIC MATTER IN SOILS *Francisco J. González Vila, Sevilla - Spain*
	S07.01-P -16 MOLECULAR COMPOSITION OF THE SOIL ORGANIC MATTER FROM SUBTROPICAL FOREST SYSTEMS *Graciele Sarante Santana, Porto Alegre - Brazil*
	S07.01-P -17 MOLECULAR DIFFERENTIATION OF ROOT AND EARTHWORM DERIVED CARBON IN SOIL VIA FATTY ACIDS *Guido Wiesenberg, Bayreuth - Germany*
	S07.01-P -18 NANOCLAYS FROM ALLOPHANIC AND NON-ALLOPHANIC SOILS: THEIR IMPLICATIONS ON CARBON SEQUESTRATION POTENTIAL *Marcela Calabi Floody, Temuco - Chile*
	S07.01-P -19 NEAR INFRARED SPECTROSCOPY FOR CARBON QUANTIFICATION MODEL USING SOUTH AMERICA AND AFRICA SOIL SAMPLES *Wilson Tadeu L. Da Silva, São Carlos - Brazil*
	S07.01-P -20 ORGANIC MATTER ALTERATIONS ALONG AN ALTITUDINAL GRADIENT IN MEDITERRANEAN HIGH-MOUNTAIN SOILS *Víctor Aranda, Jaen - Spain*
	S07.01-P -21 VARIABILITY OF 13C-LABELING IN PLANT TISSUES *Katell Quenea, Paris - France*

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POSTER SESSIONS

17.00-18.30	S07.01-P -22 PYROLYTIC MOLECULAR ASSEMBLAGES AS INDICATORS OF SOIL PHYSICAL VARIABILITY IN CENTRAL SPAIN SOILS *Lorena Recio-Vázquez, Madrid - Spain*
	S07.01-P -23 QUANTIFYING THE DEGREE OF MICROBIAL REWORKING OF PLANT-DERIVED SUBSTRATES IN MEDITERRANEAN FOREST SOILS, BY MEANS OF TMAG-THERMOCHEMOLYSIS-GC-MS *Pere Rovira, Solsona - Spain*
	S07.01-P -24 SOM CHARACTERIZATION BY HUMIC ACIDS APPLIED ON A DIVERSE SET OF AUSTRIAN FOREST SOIL SAMPLES *Michael Tatzber, Vienna - Austria*
	S07.01-P -25 THE ORGANIC MATTER AMPHIPHILITY OF AUTOMORPHIC MIDDLE-TAIGA SOILS AND THE CHANGES IN IT CAUSED BY VEGETATION SUCCESSION (AFTER CUTTING) *Alexey Dymov, Syktyvkar - Russian Federation*
	S07.01-P -26 THRESHOLD PYROLYSIS TEMPERATURE CONTROLS THE FATES OF CHARRED ORGANIC CARBON: A CASE STUDY USING RICE STRAW AND HUSK *Masako Kajiura, Tsukuba - Japan*
	S07.01-P -27 PERIODICAL EFFECTS OF GROWING SAFFRON (CROCUS SATIVUS) ON SOIL PHYSICAL AND CHEMICAL PROPERTIES IN EASTERN IRAN *Mohammad Ali Hajabbasi, Isfahan - Iran, Islamic Republic of*
	S09.02-P **BIOGEOCHEMICAL INTERFACES IN SOIL: ARCHITECTURE, PROPERTIES AND FUNCTIONS**
	S09.02-P -1 ADVANCED CHARACTERIZATION OF MACROPORE FLOW IN UNDISTURBED SOIL CORES USING TIME RESOLVED THREE-DIMENSIONAL CT IMAGES *Stéphane Sammartino, Avignon - France*
	S09.02-P -2 EFFECTS OF MODERATE WARMING ON THE STRUCTURE AND RHEOLOGY OF A FLUOROHECTORITE CLAY IN WATER *Elisabeth Lindbo Hansen, Trondheim - Norway*
	S09.02-P -3 EVALUATION OF SOIL POROSITY UNDER DIFFERENT MANAGEMENT SYSTEMS USING COMPUTED TOMOGRAPHY *José Marcos Garrido Beraldo, Matão - Brazil*
	S09.02-P -4 EXPLORATION OF INTERFACE AND PORE-SPACE PROPERTIES ON THE CONTINUUM SCALE USING CLOSED-FLOW COLUMN EXPERIMENTS *Thomas Ritschel, Jena - Germany*
	S09.02-P -5 HOW CAN NMR RELAXOMETRY, MAGNETIC RESONANCE IMAGING, X-RAY CT AND PARTICULATE CONTRAST AGENTS WITH FINELY TUNED INTERFACIAL PROPERTIES, HELP UNDERSTANDING PARTICLE TRANSPORT IN SOIL *Eric Michel, Avignon - France*
	S09.02-P -6 HOW TIME-LAPSE X-RAY TOMOGRAPHY CAN HELP UNDERSTANDING COLLOID MOBILIZATION MECHANISMS IN UNDISTURBED SOIL CORES: A CASE STUDY *Eric Michel, Avignon - France*
	S09.02-P -7 ORGANIC MATTER COMPOSITION AT FLOW PATH SURFACES IN STRUCTURED SOILS USING DRIFT MAPPING *Horst H. Gerke, Müncheberg - Germany*
	S09.02-P -8 ORGANIC MATTER DISTRIBUTION IN SOIL FRAGMENTS FROM DIFFERENT CROPPING SYSTEMS: AN APPROACH COMBINING EXPERIMENTAL AND MODELLING TOOLS *Sabrina Juarez, Thiverval Grignon - France*
	S09.02-P -9 PROPERTIES OF NATURAL SOIL COLLOIDS STUDIED BY AFM AND SEM *Arkadiusz K. Wieczorek, Jena - Germany*
	S09.02-P -10 SOIL CLAY OIL SUSPENSIONS SUBJECTED TO ELECTRIC FIELDS *Zbigniew Rozynek, Trondheim - Norway*
	S09.02-P -11 A METHOD FOR COUPLED, QUASI-SIMULTANEOUS MEASUREMENT OF OXYGEN DIFFUSION RATE (ODR) AND REDOX POTENTIAL (EH) IN UNSATURATED AGRICULTURAL SOIL *René Reiser, Zürich - Switzerland*
	S09.02-P -12 THE EFFECT OF DRYING, FREEZING AND AGEING ON THE EXTRACTION OF NONYLPHENOL AND PHENANTHRENE FROM MONO- AND POLYVALENT CATION SATURATED SOILS *Bernd Marschner, Bochum - Germany*
	S09.02-P -13 BIOGEOCHEMICAL INTERFACES IN SOIL: THE DECADAL CHALLENGE TO FUNDAMENTAL SOIL RESEARCH *Kai U. Totsche, Jena - Germany*
	S09.02-P -14 RESTRUCTURING OF ORGANIC COATINGS UPON DRYING: CONSEQUENCES FOR THE ACCESSIBILITY OF SORPTION SITES *Jaane Krüger, Berlin - Germany*
	S09.02-P -15 CATION EXCHANGE REACTIONS WITH CU COMPROMISE THE EFFECTIVENESS OF FEEDDHA CHELATES AS SOIL-APPLIED FE FERTILIZER *Walter Schenkeveld, Vienna - Austria*
	S09.02-P -16 COATING OF MODEL SURFACES WITH ORGANIC FUNCTIONAL GROUPS *Susanne K. Woche, Hannover - Germany*
	S09.02-P -17 CONTRIBUTION OF DIFFERENT MICROORGANISMS TO CELL WALL ENVELOPE (PATCHY FRAGMENT) FORMATION IN SOIL *Jan Achtenhagen, Leipzig - Germany*

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POSTER SESSIONS

17.00-18.30	S09.02-P -18 CONTRIBUTION OF DISSOLVED ORGANIC MATTER AND ROOT EXUDATION TO THE ANTIOXIDANT CAPACITY OF SOIL SURROUNDING WHEAT ROOTS *André Schlichting, Rostock - Germany*
	S09.02-P -19 HOW DOES OXIDATIVE DEGRADATION OF ORGANIC MATTER AFFECT SURFACE AREA AND MICROPOROSITY? – A COMPARISON OF THREE COMMON REMOVING AGENTS *Cordula Vogel, Freising-Weihenstephan - Germany*
	S09.02-P -20 HUMIC SUBSTANCES (HS) MODELS – WATER AND CATIONS INTERACTING WITH HS NANOPORES *Martin Gerzabek, Vienna - Austria*
	S09.02-P -21 ORGANO-MINERAL ASSOCIATIONS IN AN ANDISOL DEVELOPED FROM VOLCANIC ASHES (PART 2): A SEQUENTIAL DENSITY FRACTIONATION APPROACH *Rota Wagai, Tsukuba, Ibaraki - Japan*
	S09.02-P -22 BIOLOGICAL STABILIZATION OF SANDY SOILS BY THE USE OF INDIGENOUS BACTERIA *Farzin Kalantary, Tehran - Iran, Islamic Republic of*
	S09.02-P -23 BIO-CLOGGING OF SANDY SOIL USING XANTHAN AND DIFFERENT CROSSLINK *Farzin Kalantary, Tehran - Iran, Islamic Republic of*

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POSTER SESSIONS

	S02.01-P **INITIAL SOILS – FORMATION, PROPERTIES AND THE ROLE OF STRUCTURES**
	S02.01-P -1 2012 NATIONAL COOPERATIVE SOIL SURVEY WORK PLANNING CONFERENCES –NATIONAL COLLABORATIVE RESEARCH AGENDA FOR EMERGING ISSUES *Maxine Levin, Washington DC - United States*
	S02.01-P -2 CHARACTERISTICS AND CLASSIFICATION OF URBAN SOILS IN THE CITY OF SISAK, CROATIA *Stjepan Husnjak, Zagreb - Croatia*
	S02.01-P -3 CLAY MINERALS IDENTIFICATION IN SOIL PROFILES DEVELOPED ON RHYODACITE AND BASALTE IN SOUTHERN BRAZIL *Leopoldo Radtke, Poitiers - France*
	S02.01-P -4 COMPARISON OF SOIL TAXONOMY AND WRB FOR DESCRIPTION OF SOIL PROPERTIES IN ARID AND SEMIARID REGIONS OF CENTRAL IRAN *Mohammad Hassan Salehi, Shahrekord - Iran, Islamic Republic of*
	S02.01-P -5 CRYSTALLINE IDIOMORFISM LIKE NEOFORMATION SIGN OF QUARTZ GRAINS IN MEDITERRANEAN SOILS *Jaume Bech, Barcelona - Spain*
	S02.01-P -6 DEVELOPMENT OF SOIL EVOLUTION AFTER AFFORESTATION OF AGRICULTURAL LANDS IN GLACIGENIC TILL SOILS OF BOREAL-NEMORAL AREA *Raimonds Kasparinskis, Riga - Latvia*
	S02.01-P -7 ENDOLITHIC PEDOGENESIS AND ROCK VARNISH ON GRANITOIDES IN EAST ANTARCTICA *Nikita Mergelov, Moscow - Russian Federation*
	S02.01-P -8 EUROPEAN HUMUS FORMS REFERENCE BASE *Augusto Zanella, Padova - Italy*
	S02.01-P -9 FORMATION AND EVOLUTION OF INITIAL SOILS IN A LANDSLIDE TERRAIN – A CASE STUDY FROM THE SUDETES (SW POLAND) *Andrzej Kacprzak, Kraków - Poland*
	S02.01-P -10 UPGRADING OF FINE LEONARDITE FROM THRACE REGION *Vedat Taylan Engin, Izmir - Turkey*
	S02.01-P -11 INFLUENCE OF CYANIDE ON GRANITE DISSOLUTION *Nuttakan Wongfun, Zurich - Switzerland*
17.00-18.30	S02.01-P -12 INITIAL HUMUS ACCUMULATION ON THE EARLY EARTH – COULD LICHENS BE RESPONSIBLE? *Anna Zavarzina,- Russian Federation*
	S02.01-P -13 INNER OUTWASH PLAINS OF NORTH-EASTERN POLAND – THE SPECIFITY OF SOILS AND FORMATION CONDITIONS *Arkadiusz Bieniek, Olsztyn - Poland*
	S02.01-P -14 TYPOLOGY AND DIRECTIONS OF EVOLUTION OF BRUNIC ARENOSOL FROM PUSZCZA BIALA *Józef Chojnicki, Warsaw - Poland*
	S02.01-P -15 LONG-TERM EFFECTS OF ORGANIC AMENDMENTS ON PLANT AND SOIL MICROBIAL COMMUNITY DEVELOPMENT FOLLOWING OPEN PIT MINING IN THE CANADIAN BOREAL FOREST *Aria Hahn, Edmonton - Canada*
	S02.01-P -16 PHYSICAL, CHEMICAL AND MINERALOGICAL CHARACTERISTICS OF VERTISOLS OF THE OCEANIC ISLAND OF FERNANDO DE NORONHA – BRAZIL *Regilene Angélica Da Silva Souza, Recife – Pernambuco - Brazil*
	S02.01-P -17 PROPOSAL FOR AN INTERNATIONAL SOIL PARENT MATERIAL CLASSIFICATION AS A BASIS FOR RE-INTERPRETING DIGITAL GEOLOGICAL DATA FOR SOIL MAPPING *Ulrich Schuler, Hannover - Germany*
	S02.01-P -18 RECOVERY OF BIOLOGICAL SOIL CRUSTS AFTER DISTURBANCE ALONG A RAINFALL GRADIENT IN THE TRANSITION ZONE BETWEEN THE NW NEGEV, ISRAEL AND THE PALESTINIAN GAZA STRIP *Daniel Steckenmesser, Giessen - Germany*
	S02.01-P -19 RELICS OF TERTIARY WEATHERING IN SOILS OF THE SWABIAN ALB, CARSTIC PLATEAU *Karl Stahr, Stuttgart - Germany*
	S02.01-P -20 SOIL AGGREGATION IMPROVEMENT DUE TO SOIL MANAGEMENT ON SUGARCANE *Carolina Fernandes, Jaboticabal - Brazil*
	S02.01-P -21 THE SPECTROHOTOMETRIC ANALYSIS OF THE SHIRVAN STEPPE (AZERBAIJAN) SOILS *Ali Jafarov, Baku - Azerbaijan*
	S02.01-P -22 SURVEY SEMIDETAILED SOIL OF THE FARM SCHOOL ST LOUIS - FESL/UEMA *Oliveira SÁ Sandra Maria , Sao Luis - Brazil*
	S02.01-P -23 THE NATURE OF PARENT MATERIALS IN ITALIAN MOUNTAIN SOILS: A NATIONWIDE STUDY *Simona Vingiani, Portici (NA) - Italy*

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POSTER SESSIONS

	S02.01-P -24 STUDYING THE TEXTURE AND CEC PROPERTIES OF SOILS DEVELOPED ON KARAJ GREEN TUFF *Esmaeil Saberi Moghadam, Karaj - Iran, Islamic Republic of*
	S02.01-P -25 LATE QUATERNARY PALAEOECOLOGICAL CHANGES IN EASTERN ISFAHAN, IRAN, AS REVEALED BY STABLE ISOTOPE GEOCHEMISTRY OF PEDOGENIC CARBONATES *Omid Bayat, Isfahan - Iran, Islamic Republic of*
	S02.01-P -26 GLOBAL AND LOCAL PEDODIVERSITY- RESULTS FROM ARID REGIONS OF SOUTHEAST IRAN *Hossein Khademi, Isfahan - Iran, Islamic Republic of*
	S02.03-P **PEDODIVERSITY IN SPACE AND TIME: CONCEPTS, MEASUREMENTS, APPLICATIONS**
	S02.03-P -1 ZEOLITIZED TUFFS IN PEDOTECHNIQUE FOR QUARRY RESTORATION: EVALUATION OF PHYTONUTRITIONAL EFFICIENCY IN ^AUP MODEL HORIZONS *Andrea Buondonno, Caserta - Italy*
	S02.03-P -2 DECISION TREE MODELS TO SOIL MAPPING AND LAND SUITABLE CLASSIFICATION *Ricardo Dalmolin, Santa Maria - Brazil*
	S02.03-P -3 DOES SOIL COMPOSITION CORRELATE WITH CORINE NOMENCLATURE IN WETLANDS? : HUMIC SUBSTANCES AS FUNCTIONAL INDICATORS *Charlotte Grasset, Villeurbanne - France*
	S02.03-P -4 USE OF THE MICRORESP METHOD TO ASSESS POLLUTION-INDUCED COMMUNITY TOLERANCE TO METALS AND ECOPHYSIOLOGICAL TRAITS FOR SOIL MICROBIAL COMMUNITIES *Berard Annette , Avignon - France*
	S02.03-P -5 PEDODIVERSITY INDICES IN THE ROMANIAN PLAIN *Alina Gherghina, Bucharest - Romania*
	S02.03-P -6 PEDODIVERSITY OF SOIL COVER OF RUSSIAN: CARTOGRAPHIC ASSESSMENT *Irina Alyabina, Moscow - Russian Federation*
	S02.03-P -7 PEDOSEDIMENTS AND CALCRETES OF KARSTIC SINKHOLES IN QUINTANA ROO, MEXICO: A RECORD OF SOIL DEVELOPMENT, GEOMORPHIC PROCESSES AND LANDSCAPE STABILITY *Hector Cabadas Baez, Wurzburg - Germany*
17.00-18.30	S02.03-P -8 PROPERTIES AND SUSTAINABLE LEND USE OF ARENOSOLS *Piotr Sklodowski, Warsaw - Poland*
	S02.03-P -9 REFERENCE VALUES AND VARIABILITY OF SOIL PHYSICAL CHARACTERISTICS OF DELUVIAL-MEADOW SOIL *Emil Dimitrov, Sofia - Bulgaria*
	S02.03-P -10 RELIEF AS SOIL FORMING FACTOR IN KARST AREA *Janez Bergant, Ljubljana - Slovenia*
	S02.03-P -11 SOILS OF GEORGIA: CONDITION AND PROBLEMS *Teo Urushadze, Tbilisi - Georgia*
	S02.03-P -12 THE INFLUENCE OF AIR POLLUTION ON SOIL MINERAL WEATHERING-SOIL ACIDITY IN LIMESTONE ALPS, AUSTRIA *Undrakh-Od Baatar, Vienna - Austria*
	S02.03-P -13 VARIABILITY OF SOIL PROPERTIES WITHIN LARGE TERMITE MOUNDS – ORIGINS AND APPLICATIONS *Hans Erens, Ghent - Belgium*
	S02.03-P -14 ECOLOGICAL FUNCTIONS OF SOILS AT UNDERGROUND GAS STORAGE TERRITORIES *Nadezhda Mozharova, Moscow - Russian Federation*
	S02.03-P -15 FRACTIONAL COMPOSITION OF HEAVY METAL COMPOUNDS IN THE SOILS *Tatiana Minkina, Rostov-on-Don - Russian Federation*
	S02.03-P -16 PEDOTECHNIQUES STRATEGIES TO IMPROVE SOIL RESILIENCE AGAINST THE IMPACT OF IRRIGATION BY MUNICIPAL WASTEWATER: USING ZEOLITIZED TUFFS AS SOIL AMENDMENTS *Andrea Buondonno, Caserta - Italy*
	S02.03-P -17 SUSTANIABLE REMEDIATION OF PB, ZN AND CD CONTAMINATED SOIL *Masa Jelusic, Ljubljana - Slovenia*
	S02.03-P -18 GLOBAL AND LOCAL PEDODIVERSITY- RESULTS FROM ARID REGIONS OF SOUTHEAST IRAN *Hossein Khademi, Isfahan - Iran, Islamic Republic of*
	S02.03-P -19 ASSESSMENT OF THE EFFECT OF SOIL PHYSIOGRAPHY UNITS AND GEOMORPHIC STATUS ON LAND PREPARATION IN PART OF SAFASHAHR SUBBASIN (KOR BASIN IN SOUTH OF IRAN) *Ahmad Landi, Ahvaz - Iran, Islamic Republic of*

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POSTER SESSIONS

17.00-18.30	**S04.01-P** **APPLICATION OF PROXIMAL SOIL SENSING (PPS) IN SOIL SCIENCE**
	S04.01-P -1 A PEDOLOGICAL DESCRIPTION OF DANISH TOPSOILS USING VISIBLE-NEAR INFRARED SPECTRA *Maria Knadel, Tjele - Denmark*
	S04.01-P -2 ANALYSIS OF SOIL PHOSPHORUS BY NEAR INFRARED REFLECTANCE SPECTROSCOPY *Dalel Abdi, Quebec - Canada*
	S04.01-P -3 BEST-PRACTICE FOR IN SITU PH MEASUREMENT BY ISFET ELECTRODES IN SATURATED AND UNSATURATED SOIL *Niels Emil Søe, Aarhus - Denmark*
	S04.01-P -4 CHARACTERIZATION OF SOILS AND SEDIMENTS USING VIS-SPECTROSCOPY *Eileen Eckmeier, Bonn - Germany*
	S04.01-P -5 CHEMICAL PROPERTIES OF SOILS IN ALPINE AREA (NORTHEN ITALY) AS EVALUATED BY DIFFUSE REFLECTANCE SPECTROSCOPY (DRS) *Claudio Colombo, Campobasso - Italy*
	S04.01-P -6 COMBINING DISTRIBUTED SOIL MOISTURE MONITORING AND GEOPHYSICAL MEASUREMENTS FOR STUDYING HILLSLOPE HYDROLOGICAL PROCESSES *Edoardo Martini, Leipzig - Germany*
	S04.01-P -7 COMPARISON OF CONVENTIONAL AND SPECTRAL METHODS TO DETERMINE TPH IN SOIL *Eyal Ben Dor, Tel Aviv - Israel*
	S04.01-P -8 DETERMINATION OF SOIL SALINITY AND WATER CONTENT USING FDR SENSORS *Agnieszka Szyplowska, Lublin - Poland*
	S04.01-P -9 DEVELOPMENT OF A REGIONAL-SCALE LIBRARY OF NEAR INFRARED REFLECTANCE SOIL SPECTRA FOR ALTERNATIVE ASSESSMENT OF SOIL CHARACTERISTICS IN SOUTHERN BELGIUM *Valérie Genot, Gembloux - Belgium*
	S04.01-P -10 DIFFUSE REFLECTANCE SPECTROSCOPY FOR MONITORING OF ARABLE SOILS CHEMISTRY IN THE NATIONAL SCALE *Cezary Kazmierowski, Poznan - Poland*
	S04.01-P -11 DIGITAL SOIL SALINITY MAPPING WITH ELECTRICAL RESISTIVITY DATA IN IRRIGATED PADDY FIELDS FROM NIGER *Issifou Adam, Rennes - France*
	S04.01-P -12 ELECTRICAL RESISTIVITY TOMOGRAPHY TO DETECT THE EFFECTS OF TILLAGE IN A SOIL WITH A VARIABLE ROCK FRAGMENT CONTENT *Roberta Rossi, Potenza - Italy*
	S04.01-P -13 ESTIMATING SPATIAL VARIATIONS OF APPARENT SOIL ELECTRICAL CONDUCTIVITY USING ELECTROMAGNETIC INDUCTION TO INVESTIGATE SOIL PHYSICAL PARAMETERS AND CROP YIELD IN A MIXED CROPPING SYSTEM IN WESTERN THAILAND *Sebastian Rudolph, Jülich - Germany*
	S04.01-P -14 EVALUATION OF SOIL BIODIVERSITY IN GERMANY: FIRST RESULTS *Frank Glante, Dessau - Germany*
	S04.01-P -15 HIGH RESOLUTION MAPPING OF SOIL ORGANIC MATTER QUALITY IN A HISTOSOL PROFILE WITH IMAGING SPECTROSCOPY *Markus Steffens, Freising - Germany*
	S04.01-P -16 HIGH-RESOLUTION DIGITAL SOIL MAPPING COMBINING LIDAR AND PROXIMAL SENSOR DATA BY RANDOM FOREST MODELLING *Didier Michot, Rennes - France*
	S04.01-P -17 HYPERSPECTRAL IMAGING CHARACTERIZATION OF AGRICULTURAL TOPSOIL ARSENIC CONCENTRATION WITH AD HOC CONTAMINATED SOILS *Silvia Rita Stazi, Viterbo - Italy*
	S04.01-P -18 LINKING GEOPHYSICS AND SOIL FUNCTION MODELLING *Janine Krüger, Halle - Germany*
	S04.01-P -19 MAPPING SOIL CLAY CONTENTS IN DUTCH MARINE DISTRICTS USING GAMMA-RAY SPECTROMETRY *Marthijn Sonneveld, Wageningen - Netherlands*
	S04.01-P -20 METHANE BIOFILTRATION PERFORMANCE OF SOIL AND SOIL-LIKE CONSTRUCTIONS *Olga Lisovitskaya, Moscow - Russian Federation*
	S04.01-P -21 MODELING NITROGEN TRANSPORT AND TRANSFORMATION IN SOIL-PLANT SYSTEM *Ali Erfani Agah, Leuven - Belgium*
	S04.01-P -22 MODELLING SPATIAL PATTERN OF SOIL ORGANIC MATTER USING VNIR SPECTROSCOPY AND GEOSTATISTICS IN AN AREA OF SOUTHERN ITALY *Gabriele Buttafuoco, Rende CS - Italy*
	S04.01-P -23 PREDICTION OF SOC CONTENT BY VIS-NIR SPECTROSCOPY AT EUROPEAN SCALE USING A MODIFIED LOCAL PLS ALGORITHM *Marco Nocita, Ispra - Italy*

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POSTER SESSIONS

	S04.01-P -24 PREDICTION OF SOIL BULK DENSITY BY FTIR AND NIR SPECTROSCOPY *A H Jean Robertson, Aberdeen - United Kingdom*
	S04.01-P -25 PREDICTION OF SOIL NITROGEN SUPPLY AND SOIL QUALITY PARAMETERS USING NEAR INFRARED REFLECTANCE SPECTROSCOPY IN HUMID TEMPERATE REGIONS OF CANADA *Mervin St. Luce, Ste-Anne-de-Bellevue, Quebec - Canada*
	S04.01-P -26 PROXIMAL SOIL MEASUREMENT WITH VISNIR SPECTROMETER DIRECTLY DURING CEREAL COMBINE HARVEST *Tomasz Wojciechowski, Poznan - Poland*
	S04.01-P -27 QUANTIFYING CARBON IN CHARCOAL-AFFECTED SOILS AT MOUND KILN SITES: FROM ANALYTICAL RESULTS TO A LARGER APPROACH BY REMOTE SENSING *Brieuc Hardy, Louvain-la-Neuve - Belgium*
	S04.01-P -28 SEASONAL MONITORING OF SOIL SALINITY BY ELECTROMAGNETIC CONDUCTIVITY IN IRRIGATED SANDY SOILS FROM A SAHARAN OASIS *Ismaiel Berkal, Rennes - France*
	S04.01-P -29 SOIL DIGITAL MAPPING WITH REDUCED SOIL SAMPLES UNDER AGRO-SILVO-PASTORAL SYSTEMS *Carlos Alexandre, Evora - Portugal*
	S04.01-P -30 SOIL SPECTRAL LIBRARY APPROACH TO EVALUATE THE POTENTIALS OF SOIL ORGANIC CARBON STORAGE DUE TO SUSTAINABLE LAND MANAGEMENT IN THE HIGHLANDS OF ETHIOPIA *Tadele Amare Kassie, Bern - Switzerland*
	S04.01-P -31 SPATIAL STOCHASTIC MODELING OF TOPSOIL ORGANIC CARBON CONTENT OVER A CULTIVATED PERI-URBAN REGION, USING SOIL PROPERTIES, SOIL TYPES AND A DIGITAL ELEVATION MODEL *Jonas Hamiache, Paris - France*
	S04.01-P -32 SPATIAL VARIABILITY ANALYSIS OF SOIL PHYSICAL AND CHEMICAL PROPERTIES IN AN EXPERIMENT FIELD IN SISTAN PLAIN, SOUTHEAST OF IRAN *Masoomeh Delbari, Zabol - Iran, Islamic Republic of*
	S04.01-P -33 SPECTRAL ESTIMATION OF SOIL PROPERTIES IN SIBERIAN TUNDRA SOILS AND RELATIONS WITH PLANT SPECIES COMPOSITION *Harm Bartholomeus, Wageningen - Netherlands*
	S04.01-P -34 TERRAIN ATTRIBUTE BASED MAPPING FOR A SOIL-LANDCAPE DETAILED ALBANIA SOIL MAP *Zamir Libohova, Lincoln - United States*
17.00-18.30	S04.01-P -35 TESTING OF DIFFERENT METHODS OF SOIL VIS-NIR SPECTRA PROCESSING FOR PREDICTION OF AVAILABLE NUTRIENTS CONTENT *Lubos Boruvka, Suchdol - Czech Republic*
	S04.01-P -36 THE COMPARESION OF CONVENTIONAL METHOD AND LCC TOOL FOR N MANAGEMENT IN RICE *Sekineh Vaseghi, Savadkooh - Iran, Islamic Republic of*
	S04.01-P -37 THE SOIL AND WATER MONITORING NETWORK OF GEOLOGICAL SURVEY OF FINLAND *Pekka Hänninen, Espoo - Finland*
	S04.01-P -38 TOPSOIL ORGANIC CARBON PREDICTION USING VIS-NIR-SWIR REFLECTANCE SPECTRA AT LAB, FIELD AND SATELLITE LEVELS OVER A PERIURBAN REGION *Emmanuelle Vaudour, Thiverval-Grignon - France*
	S04.01-P -39 X-RAY FLUORESCENCE SENSING OF SOIL PHOSPHORUS FOR PRECISION MANAGEMENT AND ENHANCED NUTRIENT USE EFFICIENCY *Thanh H. Dao, Beltsville, Maryland - United States*
	S05.03-P **BIOCHAR EFFECTS ON SOIL PROPERTIES, PROCESSES AND FUNCTIONS**
	S05.03-P -1 "POTENTIAL OF ANTHROPOGENIC CHARCOAL DEPOSITS FOR ASSESSING THE FATE OF BIOCHAR IN EUROPEAN SOILS" *Ian Mugford, Swansea - United Kingdom*
	S05.03-P -2 BIOAVAILABILITY OF HEAVY METALS IN CONTAMINATED SOIL TREATED WITH BIOCHAR *David Houben, Louvain-la-Neuve - Belgium*
	S05.03-P -3 BIOCHAR AMENDMENT OF SANDY SOIL FROM WESTERN CAPE, SOUTH AFRICA: EFFECT ON SOIL QUALITY AND FERTILIZER LEACHING *Ailsa Hardie, Stellenbosch - South Africa*
	S05.03-P -4 BIOCHAR AND CLAY AMENDMENT OF SANDS: EFFECTS ON P RELEASE, LEACHING AND AVAILABILITY *Richard Bell, Murdoch - Australia*
	S05.03-P -5 BIOCHAR AND ITS EFFECT ON SOIL NUTRIENT STATUS AND PLANT YIELD- RESULTS FROM POT AND FIELD EXPERIMENTS *Stefanie Kloß, Vienna - Austria*
	S05.03-P -6 BIOCHAR AS A CATALYST FOR SOIL CARBON SINK ENHANCEMENT: A LYSIMETER STUDY *Roberto Calvelo Pereira, Palmerston North - New Zealand*
	S05.03-P -7 BIOCHAR AS A COPPER STABILIZER IN VINEYARDS *Kathleen A. Mackie, Stuttgart - Germany*

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	S05.03-P -8 BIOCHAR FROM NUISANCE PLANTS: A WIN-WIN SOLUTION? *Philip.j.e. Harries, Swansea - United Kingdom*
	S05.03-P -9 BIOCHAR IN CONSERVATION FARMING IN ZAMBIA - IMPROVED SOIL FERTILITY AND CROP YIELD *Jan Mulder, Aas - Norway*
	S05.03-P -10 BIOCHAR REDUCES SOIL NITROGEN LEACHING: RESULTS FROM LEACHING CYCLES IN A POT EXPERIMENT *Costanza Zavalloni, Udine - Italy*
	S05.03-P -11 BIOCHAR TRANSNATIONAL FIELD TRIALS IN THE NORTH SEA REGION *Greet Ruysschaert, Merelbeke - Belgium*
	S05.03-P -12 CARBON FRACTIONS IN CHARCOAL FROM ARCHAEOLOGICAL MAORI SOILS OF NEW ZEALAND *Roberto Calvelo Pereira, Palmerston North - New Zealand*
	S05.03-P -13 DYNAMICS OF EXTRACTABLE P AND K IN SOIL AFTER APPLICATION OF ASHES AND BIOCHARS FROM THERMALLY-TREATED SOLID MANURES *Peter Sørensen, Tjele - Denmark*
	S05.03-P -14 ECOTOXICOLOGICAL IMPLICATIONS OF BIOCHAR-BOUND PAH CONTAMINANTS IN RUNOFF FROM BIOCHAR-ENRICHED SOILS: A PILOT STUDY *Ana Catarina Bastos, Aveiro - Portugal*
	S05.03-P -15 EFFECT OF BIOCHAR APPLICATION ON TRACE GAS EMISSION IN A SANDY SOIL *Christiane Dicke, Potsdam - Germany*
	S05.03-P -16 EFFECT OF BIOCHARS ON ADSORPTION OF BENTAZONE AND PYRACLOSTROBIN TO A SILTY CLAY SOIL *Alegría Cabrera, Seville - Spain*
	S05.03-P -17 EFFECT OF CHARCOAL FROM DIFFERENTLY AGED CHAR PRODUCTION SITES ON SOIL CARBON AND FERTILITY *Anita Gál, Gödöllo - Hungary*
	S05.03-P -18 EFFECTS OF BIOCHAR ADDITIONS TO SOIL ORGANIC CARBON MINERALIZATION AND PHYSICAL AGGREGATION *M. Francesca Cotrufo, Fort Collins - United States*
	S05.03-P -19 EFFECTS OF BIOCHAR AMENDMENT ON SOIL GREENHOUSE GAS FLUXES IN AGRICULTURAL SOILS *Barbara Kitzler, Vienna - Austria*
17.00-18.30	S05.03-P -20 EFFECTS OF BIOCHAR ON THE WATER AND NITROGEN DYNAMICS OF A SANDY SOIL: COMPARING ORGANIC AND CONVENTIONAL AGRICULTURAL SYSTEMS *James Ulyett, Cranfield - United Kingdom*
	S05.03-P -21 ENHANCED GROWTH AND INDUCED SYSTEMIC RESISTANCE BY BIOCHAR COMBINED WITH ORGANIC FERTILIZERS AND BIOCONTROL AGENTS *Jerome Henreaux, Turrialba - Costa Rica*
	S05.03-P -22 EXAMINATION OF THE EFFECT OF BIOCHAR ON SOIL RESISTIVITY AND POLARISATION *Ursula Noell, Hannover - Germany*
	S05.03-P -23 EXPERIMENTS WITH BIOCHAR IN EUCALYPTUS BENTHAMII PLANTATIONS ON PROPERTIES OF FAMILY FARMERS IN THE STATE OF PARANA – BRAZIL *Kátia Cylene Lombardi, Irati - Brazil*
	S05.03-P -24 FOUR STANDARDIZED BIOTOXICITY TESTS FOR BIOLOGICAL CHARACTERIZATION OF 18 BIOCHARS *Claudia Kammann, Gießen - Germany*
	S05.03-P -25 GREEN WASTE BIOCHAR REDUCES N2O EMISSION IN FIELD EXPERIMENT *Raphael Felber, Zürich - Switzerland*
	S05.03-P -26 IMMOBILIZATION MECHANISMS OF HEAVY METALS IN CONTAMINATED SOILS WITH BIOCHAR AMENDMENTS *Frédéric Rees, Vandoeuvre-lès-Nancy - France*
	S05.03-P -27 INCORPORATING BIOCHAR ENHANCED SOIL PROCESSES AND EFFECTS INTO THE MODELLING OF BIOCHAR CARBON SEQUESTRATION *Jayne Windeatt, Leeds - United Kingdom*
	S05.03-P -28 INFLUENCE OF BIOCHAR INCORPORATION ON TDR-BASED SOIL WATER CONTENT MEASUREMENT *Koji Kameyama, Tsukuba - Japan*
	S05.03-P -29 INFLUENCE OF LIGNITE ON SOIL PHYSICO-CHEMICAL PROPERTIES AND MICROBIAL FUNCTIONS *Mélanie Clouard, Aix en Provence - France*
	S05.03-P -30 INTERACTIONS BETWEEN BIOCHAR AND SOIL MICROBIAL COMMUNITY ABUNDANCE AND COMPOSITION *Jesus D. Gomez, Chapingo - Mexico*
	S05.03-P -31 LABORATORY CHARACTERIZATION AND BIOASSAY OF DIFFERENT BIOCHAR OBTAINED FROM A HIGH TEMPERATURE PROCESS (GASIFICATION) *Massimo Valagussa, Vertemate con Minoprio (CO) - Italy*

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	S05.03-P -32 LABORATORY SIMULATION OF GEOCHEMICAL WEATHERING OF GRANULAR, ASH-RICH BIOCHAR *Roberto Calvelo Pereira, Palmerston North - New Zealand*
	S05.03-P -33 LIKELIHOOD-BASED MULTIDIMENSIONAL MODELLING OF NITROGEN MINERALIZATION FROM ORGANIC FERTILIZERS IN A TEMPERATE SANDY LOAM SOIL INCUBATED WITH BIOCHAR *Tero Brandstaka, Helsinki - Finland*
	S05.03-P -34 MASS BALANCE AND ISOTOPIC ARTIFACTS FROM SOIL ORGANIC MATTER AND BIOCHAR MINERALIZATION MONITORED BY DIRECT HEADSPACE METHOD *Alice Budai, Ås - Norway*
	S05.03-P -35 MODIFICATIONS IN SOIL PH INDUCED BY BIOCHAR: DO THE EFFECTS CHANGE OVER TIME? *Edvaldo Sagrilo, Wageningen - Netherlands*
	S05.03-P -36 N2O EMISSIONS AND GROSS SOIL N TRANSFORMATIONS IN TWO AMAZONIAN DARK EARTH AND CORRESPONDING ADJACENT SOILS *Claudia Kammann, Gießen - Germany*
	S05.03-P -37 N2O EMISSIONS FROM DIFFERENT BIOCHAR TYPES MIXED WITH AN AGRICULTURAL SOIL *Nina Eibisch, Braunschweig - Germany*
	S05.03-P -38 NATURE OF PRECURSOR, A KEY FACTOR OF BIOCHAR QUALITY *Marie Alexis, Paris - France*
	S05.03-P -39 PRODUCTION PROCESS DETERMINES BIOCHAR DEGRADATION *Mo Bai, Giessen - Germany*
	S05.03-P -40 SHORT TERM EFFECTS OF BIOCHAR IN SOIL NITROGEN DYNAMICS *Victoria Nelissen, Merelbeke - Belgium*
	S05.03-P -41 SHORT-TERM STABILITY AND FUNCTIONAL PROPERTIES OF BIOCHAR *Tom Maxfield, Edinburgh - United Kingdom*
	S05.03-P -42 SOIL APPLICATION OF WHEAT STRAW BIOCHAR FROM GASIFICATION IN THE INTENSIVE LEAFY VEGETABLES PRODUCTION IN TUNNEL *Alessandro Pozzi, Arosio (CO) - Italy*
	S05.03-P -43 SOIL GHG EMISSIONS IN A MISCANTHUS PLANTATION AS AFFECTED BY INCREASING RATES OF BIOCHAR APPLICATION *Pietro Panzacchi, Bologna - Italy*
17.00-18.30	S05.03-P -44 SORPTION OF MTBE TO SYSTEMATICALLY CHARACTERIZED MAIZE-STRAW DERIVED BIOCHARS *Liwei Xiao, Beijing - China*
	S05.03-P -45 STABILITY OF MISCANTHUS BIOCHAR UNDER FIELD CONDITIONS IN NORWAY AND EFFECTS ON AGRONOMIC PARAMETERS *Daniel P. Rasse, As - Norway*
	S05.03-P -46 SUITABILITY OF BIOCHAR FOR FIXING HEAVY METALS IN FORMER SEWAGE FIELD SOILS - RESULTS OF POT VS. FIELD EXPERIMENTS *Anne Wagner, Berlin - Germany*
	S05.03-P -47 SURFACE OXIDATION OF MODERN AND FOSSIL BIOCHARS *Katja Wiedner, Halle - Germany*
	S05.03-P -48 THE EFFECT OF BIOCHAR AMENDMENT ON THE SOIL MICROBIAL COMMUNITY – PLFA ANALYSES AND 13C LABELING RESULTS *Andrea Watzinger, Tulln - Austria*
	S05.03-P -49 THE EFFECT OF BIOCHAR ON CLAY SOIL AGGREGATE STABILITY *Helena Soinne, Helsinki - Finland*
	S05.03-P -50 THE EFFECT OF BIOLOGICAL AND CHEMICAL AGING ON THE CEC OF BIOCHARS *Nele Ameloot, Gent - Belgium*
	S05.03-P -51 THE EFFECT OF CHARS AND THEIR WATER EXTRACTABLE ORGANIC CARBON (WEOC) FRACTIONS ON ATRAZINE ADSORPTION-DESORPTION PROCESSES *Ivana Cavoski, Valenzano - Italy*
	S05.03-P -52 THE EFFECTS OF FEEDSTOCK TYPE AND PYROLYSIS TEMPERATURE ON THE PROPERTIES OF BIOCHARS AND THEIR EFFECT ON SOIL HYDROLOGY AND AGGREGATE STABILITY *Steve Aston, Swansea - United Kingdom*
	S05.03-P -53 THE IMPACT OF ACTIVATED CHARCOAL ON NPK LEACHING *Henn Raave, Tartu - Estonia*
	S05.03-P -54 THE USE OF BIOCHAR ON THE QUALITY OF SOILS AND THE ORGANIC PRODUCTION OF CACAO (THEOBROMA CACAO L.) IN AGROFORESTRY SYSTEMS IN THE BRIBRI INDIGENOUS RESERVE, TALAMANCA, COSTA RICA *Tamara Benjamin, West Lafayette - United States*
	S05.03-P -55 USE OF NITROGEN-ENRICHED BIOCHAR AS A SOIL AMENDMENT IN TEMPERATE AGRICULTURE *Maren Oelbermann, Waterloo - Canada*

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POSTER SESSIONS

17.00-18.30	**S07.03-P** **MOLECULAR DYNAMICS OF SOIL ORGANIC MATTER: CHALLENGES, OPPORTUNITIES AND LIMITS**
	S07.03-P -1 BINDING OF CHLORINATED ORGANIC POLLUTANTS TO SOIL ORGANIC MATTER: CHROMATOGRAPHIC MEASUREMENTS, SPECTROSCOPIC CHARACTERIZATION AND THEORETICAL MODELING *Ashour Ahmed, Rostock - Germany*
	S07.03-P -2 CHANGES IN PHYSICAL, BIOLOGICAL AND CHEMICAL STABILIZATION PROCESSES OF PYROGENIC CARBON AFTER ONE YEAR IN FOREST TOP-SOIL *Nimisha Singh, Zurich - Switzerland*
	S07.03-P -3 CHARACTERIZATION OF ORGANIC MATTER IN RENDZINA SOILS *Tünde Nyilas, Szeged - Hungary*
	S07.03-P -4 COMPOSITION OF THE WATER-EXTRACTABLE SOIL ORGANIC MATTER CHARACTERIZED BY CHROMOPHORIC INDICATORS: EFFECTS OF SOIL TYPE AND IRRIGATION WATER QUALITY *Mikhail Borisover, Bet Dagan - Israel*
	S07.03-P -5 EFFECT OF NITROGEN DEPOSITION ON COMPOSITION AND TURNOVER OF AMINO SUGARS IN FOREST SOIL DENSITY FRACTIONS *Marco Griepentrog, Zurich - Switzerland*
	S07.03-P -6 EFFECTS OF NATURAL AFFORESTATION OF GRASSLANDS IN NORTHERN ITALY ON STOCKS AND FRACTIONS OF SOIL ORGANIC CARBON *Claudia Guidi, San Michele all'Adige (TN) - Italy*
	S07.03-P -7 EFFECTS OF SHORT-TERM EXPERIMENTAL CLIMATE WARMING ON THE ABUNDANCE AND DISTRIBUTION OF BRANCHED GDGTS IN A FRENCH PEATLAND *Arnaud Huguet, Paris - France*
	S07.03-P -8 ELECTROCHEMICAL CHARACTERIZATION OF THE REDOX PROPERTIES OF HUMIC SUBSTANCES *Michael Sander, Zurich - Switzerland*
	S07.03-P -9 EXPLORING SOIL ORGANIC MATTER DYNAMICS THROUGH ?CODE AND D13C: LAND COVER INFLUENCE AT A REGIONAL SCALE *Julien Guigue, Dijon - France*
	S07.03-P -10 HOW WATER DYNAMICS AFFECT SOIL ORGANIC MATTER (SOM) - A COMBINED 1H SOLID STATE NMR & DSC STUDY *Alexander Jäger, Leipzig - Germany*
	S07.03-P -11 IMPORTANCE OF STOICHIOMETRY OF LABILE C AND N FOR UNDERSTANDING THE DYNAMICS OF SOIL AMINO ACIDS *Hongbo He, Shenyang - China*
	S07.03-P -12 INFLUENCE OF SOIL ORGANIC MATTER IN THE FORMATION OF STABLE COMPLEXES WITH CHROMIUM *Vinicius Marques Gomes, Araraquara - SP - Brazil*
	S07.03-P -13 INFLUENCE OF SOIL ORGANIC MATTER ON THE POTENTIAL FOR METHYLATION OF MERCURY IN AREAS TO BE FLOODED FOR HYDROELECTRIC POWER PROJECTS *Vinicius Marques Gomes, Araraquara - SP - Brazil*
	S07.03-P -14 INORGANIC NUTRIENTS MEDIATE THE SEQUESTERING OF SOIL CARBON AS HUMUS *Alan Richardson, Canberra - Australia*
	S07.03-P -15 MODELLING THE MIGRATION OF DISSOLVED ORGANIC MATTER THROUGH THE CLAY ACCUMULATION HORIZON OF AN ALBELUVISOL IN UNDISTURBED SOIL COLUMN EXPERIMENTS *Florian Chabauty, Thiverval-Grignon, - France*
	S07.03-P -16 MOLECULAR CHARACTERISATION OF SOIL ORGANIC MATTER BY LASER-DESORPTION IONIZATION FOURIER-TRANSFORM ION CYCLOTRON RESONANCE MASS SPECTROMETRY (LDI-FT-ICR-MS) *Samuel Abiven, Zurich - Switzerland*
	S07.03-P -17 MOLECULAR COMPOSITION OF LIPIDS FROM MEDITERRANEAN SOILS IN TERMS OF THEIR PHYSICO-CHEMICAL PROPERTIES AND LAND USE *Lorena Recio-Vázquez, Madrid - Spain*
	S07.03-P -18 NEAR INFRARED SPECTRA OF SOIL ORGANIC MATTER AS A TOOL TO RECONSTRUCT PAST LAND USE *Damien Ertlen, Strasbourg - France*
	S07.03-P -19 ORGANIC MATTER "FINGERPRINT" DETERMINATION BY ROCK-EVAL PYROLYSIS *Tünde Nyilas, Szeged - Hungary*
	S07.03-P -20 PYROGENIC CARBON LOSSES UNDER AMBIENT AND INCREASED MINERAL N DEPOSITION *Bernardo Maestrini, Zurich - Switzerland*
	S07.03-P -21 SOIL STRUCTURE AND ORGANIC MATTER REPARTITION AS CONTROLLING FACTORS OF PAH-TYPE COMPOUNDS AVAILABILITY IN A FORMER INDUSTRIAL SOIL *Audrey Pernot, Vandoeuvre les Nancy - France*
	S07.03-P -22 SOM GENESIS - MICROBIAL BIOMASS AS A SIGNIFICANT SOURCE *Anja Miltner, Leipzig - Germany*

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	S07.03-P -23 THE ROLE OF ROOT LITTER FOR ORGANIC MATTER STORAGE IN SOILS *Emily Solly, Jena - Germany*
	S07.03-P -24 THERMAL STABILITY INDICES AS A PROXY FOR ORGANIC CARBON STABILIZATION IN SOIL *Maria Teresa Dell'Abate, Rome - Italy*
	S08.04-P **DYNAMIC NON-EQUILIBRIUM OF FLOW IN UNSATURATED PORUS MEDIA**
	S08.04-P -1 AN EXPERIMENTAL SETUP IN AVIGNON (SOUTH OF FRANCE) FOR THE MULTISCALE STUDY OF PREFERENTIAL FLOW IN SOIL AND OF GROUNDWATER RECHARGE PROCESSES *Stephane Ruy, Avignon - France*
	S08.04-P -2 WATER REPELLENCY & CONSEQUENCES ON HYSTERESIS PHENOMENA AND WATER RETENTION: THE CASE OF PEAT GROWING MEDIA USED IN HORTICULTURE *Jean-Charles Michel, Angers - France*
	S08.04-P -3 CHANGES OF PREFERENTIAL FLOW PATHS IN FOREST SOILS UNDER EXTREME METEOROLOGICAL CONDITIONS *Karoly Müller, Bayreuth - Germany*
	S08.04-P -4 COMPARISON OF OBSERVED AND CALCULATED EXCESS WATER (DRAINAGE DISCHARGE) IN DRAINED SOIL *Ivan Simunic, Zagreb - Croatia*
	S08.04-P -5 DISCRETE SMALL AND LARGE SCALE MODELS OF UNSATURATED FLOW IN SOILS *Kirill Gerke, Moscow - Russian Federation*
	S08.04-P -6 DYNAMIC NON-EQUILIBRIUM EFFECTS IN SOIL HYDRAULIC PROPERTIES ESTIMATED WITH TRANSIENT EXPERIMENTS: COMPARISON OF WATER AND ETHANOL EXPERIMENTS *Efstathios Diamantopoulos, Braunschweig - Germany*
	S08.04-P -7 EFFECT OF BIOFILM ON SOIL HYDRAULIC PROPERTIES: LABORATORY STUDIES USING XANTHAN AS A SURROGATE *Hella Rosenkranz, Braunschweig - Germany*
	S08.04-P -8 EFFECT OF MINERAL DISSOLUTION/PRECIPITATION ON HYDRAULIC AND TRANSPORT PROPERTIES OF FLOODPLAIN SOILS *Sabine Schaefer, Jena - Germany*
17.00-18.30	S08.04-P -9 HOW DOES COMPACTION INFLUENCE PREFERENTIAL FLOW IN SOIL? *Mona Mossadeghi-Björklund, Uppsala - Sweden*
	S08.04-P -10 IDENTIFYING THE ROLE OF STONES AND TEXTURAL HETEROGENEITIES ON SOLUTE TRANSPORT SCALE IN SOILS BY SPECTRAL ANALYSIS *Antonio Coppola, Potenza - Italy*
	S08.04-P -11 INVESTIGATING FLOW INSTABILITIES CAUSED BY ENTRAPPED AIR: INFILTRATION-OUTFLOW EXPERIMENT MONITORED BY NEUTRON TOMOGRAPHY *Michal Snehota, Prague - Czech Republic*
	S08.04-P -12 MAXIMUM EVAPORATION DEPTH ON A COARSE COVER SYSTEMS IN SEMI-ARID AUSTRALIA *Anne Schneider, Brisbane - Australia*
	S08.04-P -13 MEASUREMENT OF NEAR-WILTING HYSTERESIS USING POLYMER TENSIOMETERS UNDER FIELD CONDITIONS *Quirijn De Jong Van Lier, Piracicaba - Brazil*
	S08.04-P -14 NEW MICROFLOWMETER-TENSION DISC INFILTROMETER: MEASUREMENT AND ANALYSIS OF THE TRANSIENT INFILTRATION RATE *David Moret-Fernández, Zaragoza - Spain*
	S08.04-P -15 SOLUTE MASS TRANSFER EFFECTS IN 2D DUAL-PERMEABILITY MODELING OF PREFERENTIAL BROMIDE LEACHING WITH DRAIN EFFLUENT *Horst H. Gerke, Müncheberg - Germany*
	S08.04-P -16 SPATIAL VARIABILITY OF SOIL PHYSICAL PROPERTIES IN A CULTIVATED FIELD *Coskun Gülser, Samsun - Turkey*
	S08.04-P -17 TEMPORAL AND SPATIAL VARIABILITY IN NEAR-SURFACE SOIL MOISTURE: A WAVELET ANALYSIS *Annie-claude Parent, Québec - Canada*
	S08.04-P -18 TESTING PERCOLATION THEORY AND SOIL FRACTAL MODEL USING LABORATORY SAMPLE MEASUREMENTS AND X-RAY MICROTOMOGRAPHY *Kirill Gerke, Moscow - Russian Federation*
	S08.04-P -19 UNBIASED SIMULTANEOUS ESTIMATION OF SOIL HYDRAULIC PROPERTIES AND DYNAMIC NONEQUILIBRIUM PARAMETERS FROM TRANSIENT OUTFLOW AND EVAPORATION EXPERIMENTS *Sascha Iden, Braunschweig - Germany*
	S08.04-P -20 BROMIDE AND LITHIUM TRANSPORT THROUGH INTACT SOIL COLUMN: INFLUENCE OF FLOW CONDITION AND CROP MANAGEMENT *Golayeh Yousefi, Hamedan - Iran, Islamic Republic of*

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17.00-18.30	**S09.01-P** **SOIL MICROMORPHOLOGY: A JOURNEY FROM SOIL GENESIS TO NEW INTERDISCIPLINARY ADVANCEMENTS**
	S09.01-P -1 ASSESSMENT OF SOIL STRUCTURE BY MEANS OF X-RAY COMPUTED TOMOGRAPHY IN BIODIVERSITY EXPLORATORIES GRASSLAND SITES *Katrin Kuka, Müncheberg - Germany*
	S09.01-P -2 CLAY MINERALS IN THE SOILS FORMED FROM GLACIAL TILL AND GLACIOLIMNIC MATERIALS IN NORTH-EASTERN POLAND *Miroslaw Orzechowski, Olsztyn - Poland*
	S09.01-P -3 COMPARISON OF SOIL PORE NETWORK QUANTIFICATION BY X-RAY CT AND THE WATER RETENTION CURVE *Liesbeth Bouckaert, Ghent - Belgium*
	S09.01-P -4 FORMATION OF RARE MINERALS IN THE SAVANNAH TERRACE LANDSCAPE WITH BRACKISH INFLUENCE IN THE SINE-SALOUM BASIN IN SOUTH SENEGAL *Karl Stahr, Stuttgart - Germany*
	S09.01-P -5 IMAGE ANALYSIS OF SOIL THIN SECTIONS TO PREDICT THE EVOLUTION OF A CONSTRUCTED TECHNOSOL'S STRUCTURE: QUANTIFICATION OF DESCRIPTORS OF POROSITY AND AGGREGATION *Watteau Françoise, Nancy - France*
	S09.01-P -6 IMPACT OF RIVER RESTORATION ON TOPSOIL POROSITY IN SWISS FLOODPLAINS *Claire Guenat, Lausanne - Switzerland*
	S09.01-P -7 LINKING SOIL FORM AND FUNCTION USING 3D X-RAY COMPUTER TOMOGRAPHY *Karin Müller, Hamilton - New Zealand*
	S09.01-P -8 ROCK FRAGMENTS AS FACTOR OF SOIL STRUCTURE FORMATION: AN EXPERIMENTAL STUDY BASED ON SOIL MICROMORPHOLOGY AND IMAGE ANALYSIS *Laura Gargiulo, Portici (NA) - Italy*
	S09.01-P -9 MICROMORPHOLOGY AS A METHOD OF ASSESSING THE MOUNTAIN SOIL SENSITIVITY IN ORDER TO ELABORATE THE MELIORATIVE TECHNOLOGY FRIENDLY TO ENVIRONMENT AND BIODIVERSITY *Daniela Raducu, Bucharest - Romania*
	S09.01-P -10 MICROSCOPIC ANALYSES AS A TOOL TO INFER THE GENESIS AND EVOLUTION OF SOILS FORMED FROM SLOPE MATERIALS IN THE CARPATHIAN FOOTHILLS (SOUTHERN POLAND) *Andrzej Kacprzak, Kraków - Poland*
	S09.01-P -11 SIMULATIONS OF WATER MOVEMENT IN THE POROUS NETWORK OF DIFFERENTLY FERTILISED SOILS SCANNED WITH X-RAY MICROTOMOGRAPHY *Nicola Dal Ferro, Padova - Italy*
	S09.01-P -12 ORGANO-MINERAL COATINGS GENESIS AND EVOLUTION FROM SOME ROMANIAN PHAEOZEMS *Daniela Raducu, Bucharest - Romania*
	S09.01-P -13 PEDOGENIC PROCESSES IN DRY LAKE BASINS OF THE SOUTHWESTERN KALAHARI, NAMIBIA *Eric Van Ranst, Ghent - Belgium*
	S09.01-P -14 POLYGENETIC EVOLUTION AND BIOTURBATION. MICROMORPHOLOGICAL STUDY OF A TERRA ROSSA SOIL IN A TRADITIONAL OLIVE CROP (SARDINIA, ITALY) *Salvatore Madrau, Sassari - Italy*
	S09.01-P -15 MICROMORPHOLOGICAL AND MINERALOGICAL PROPERTIES OF CARBONATES IN SOME ARIDISOLS AND INCEPTISOLS *Ahmad Heidari, Karaj - Iran, Islamic Republic of*
	S09.01-P -16 NEEDLE FIBER CALCITE INDUCED BY BIOLOGICAL ACTIVITIES AND ORGANIC MATTER IN SEMIARID SOILS OF RASHAKAN REGION, URMIA, IRAN *Shahram Manafi, Urmia - Iran, Islamic Republic of*
	S09.01-P -17 USE OF ORGANIC MATTER MIXED WITH CALCIUM CARBONATE PENDANTS IN ORDER TO RECORD CLIMATE CHANGE IN SEMIARID SOILS OF RASHAKAN REGION, URMIA, IRAN *Shahram Manafi, Urmia (Orumiyyeh) - Iran, Islamic Republic of*
	S11.09-P **UNDERSTANDING MINERAL-ORGANIC-MICROBIAL INTERACTIONS IN SOILS AND THE CONSEQUENCES FOR BIOLOGICAL AND BIOCHEMICAL ACTIVITY AND THE EFFICIENCY OF ROCK FLOUR AMENDMENTS**
	S11.09-P -1 APATITE-BIOTITE-CARBONATITE FROM STJERNØY (N-NORWAY) – CAN BARIUM CONTENT STOP A PROMISING MULTI-NUTRIENT ROCK-FERTILIZER? *Michael Heim, Aas - Norway*
	S11.09-P -2 BIOTITE-RICH ROCK FLOUR COMBINED WITH APATITE-CONTAINING ROCK FLOUR (RF) AS SLOW-RELEASE FERTILIZER *Marina Azzaroli Bleken, Aas - Norway*
	S11.09-P -3 CHOICE OF EXPERIMENTAL PLAN FOR PLANT GROWTH EXPERIMENTS WITH ROCK FLOUR (RF) IS COMPLEX *Marina Azzaroli Bleken, Aas - Norway*
	S11.09-P -4 ACID PHYTASES STABILIZATION AFTER ADSORPTION ON ALLOPHANIC SYNTHETIC COMPOUNDS AND MONTMORILLONITE NANOCLAYS *Daniel Menezes-Blackburn, Temuco - Chile*
	S11.09-P -5 ACIDITY ATTRIBUTES IN SOIL WITH SUCCESSIVE APPLICATIONS OF PIG SLURRY UNDER NO TILLAGE SYSTEM *Carlos Alberto Ceretta, Santa Maria - Brazil*

THURSDAY 5 JULY 2012 - GROUND FLOOR - Pavilion 9

POSTER SESSIONS

17.00-18.30	S11.09-P -6 ADSORPTION OF LICHEN LACCASES ON HYDROXYALUMINUM-KAOLINITE: PROPERTIES OF IMMOBILIZED ENZYMES AND THEIR ROLE IN SYNTHESIS OF HUMIC ACIDS *Anna Zavarzina, Moscow - Russian Federation*
	S11.09-P -7 DOES PEDOGENIC CARBONATES PRECIPITATION INTERACT WITH AGGREGATION IN SEMI-ARID SOILS? INSIGHTS FROM MICROSCOPY AND NATURAL ISOTOPIC ABUNDANCE *Iñigo Virto, Pamplona - Spain*
	S11.09-P -8 FRACTIONATION OF NATURAL SOIL ORGANIC MATTER DUE TO REACTION WITH FERRIHYDRITE *Karin Eusterhues, Jena - Germany*
	S11.09-P -9 IMPACT OF AZADIRACHTIN ON MICROBIAL RESPONSE VARIABLES IN SOIL *Ridvan Kizilkaya, Samsun - Turkey*
	S11.09-P -10 INFLUENCE OF GLUCOSE ON PHOSPHORUS MOBILISATION BY CITRATE IN SOIL *Michael Rose, Clayton - Australia*
	S11.09-P -11 MICROBIAL REGULATION OF MCPA DEGRADATION IN ARTIFICIAL SOILS *Franzisla Lang, Stuttgart - Germany*
	S11.09-P -12 MICROBIAL RESIDUES ARE INDICATORS OF CROP EFFECTS ON ORGANIC CARBON OF AN OXISOL UNDER NO-TILLAGE *Jose Eduardo Cora, Jaboticabal, SP - Brazil*
	S11.09-P -13 MODELING ORGANIC MATTER DECOMPOSITION IN HETEROGENEOUS SOIL STRUCTURE AT MICROBIAL HABITATS SCALE *Laure Vogel, Thiverval-Grignon - France*
	S11.09-P -14 POSSIBLE CORRELATION BETWEEN BACTERIAL DIVERSITY, PEDOLOGICAL PROPERTIES AND LEVEL OF INFECTION BY ROSELLINIA NECATRIX IN AN APPLE TREE ORCHARD BIOLOGICALLY MANAGED *Nadia Vignozzi, Firenze - Italy*
	S11.09-P -15 THE VIABILITY OF GRAM POSITIVE BACILLUS SP. AND TRICHODERMA SP. IN LIQUID AND SOLID FORMULATION *Nasim Ashkhasi, Karaj - Iran, Islamic Republic of*
	S11.09-P -16 THE IMPACT OF FACTORS (PF, TOC, WAY OF LAND USE) ON TOTAL DNA CONCENTRATION AND DEHYDROGENASE ACTIVITY *Agnieszka Wolinska, Lublin - Poland*
	S11.09-P -17 THE IMPACT OF MICROBIOLOGICAL PREPARATIONS ON SOIL CHARACTERISTICS AND ON THE RYEGRASS (LOLIUM PERENNE, L.) BIOMASS *Anita Jakab, Debrecen - Hungary*
	S11.09-P -18 THE INFLUENCE OF LAND USE IN MOUNTAIN SOILS ON THE LABILE ORGANIC CARBON CONTENT *Agnieszka Józefowska, Kraków - Poland*
	S11.09-P -19 THE EFFECT OF SOIL COMPACTION ON SOIL RESPIRATION ACTIVITY IN BOTH CLAY AND SAND SOIL TEXTURE *Sahar Akhavan, Rasht - Iran, Islamic Republic of*

4th International Congress of the

EUROSOIL 2012

6 FRIDAY JULY

Secular olive three. Archive photo FOTOGRAMMA - Bari

FRIDAY 6 JULY 2012 - ROOM ACERO - Pavilion 10

ORAL SESSIONS

BLOCK I 08.30-10.00	**S04.02a** **SOIL CONSERVATION POLICIES IN EUROPE: A DISCUSSION OF DIFFERENT IMPLEMENTATION STRATEGIES AND POLICY OPTIONS** *Chair Persons:* Tiziana Simoniello, Potenza - Italy Steven De Jong, Utrecht - Netherlands	BLOCK III 13.30-15.00	**S11.03a** **ECOSYSTEM SERVICES AND FUNCTIONS DRIVEN BY THE DIVERSITY OF SOIL BIOTA** *Chair Person:* Guenola Peres, Rennes - France
	S04.02a -1 IMPROVING THE SATELLITE-BASED CHARACTERIZATION OF RANGELAND DEGRADATION BY AN ADVANCED MULTIPLE ENDMEMBER SPECTRAL UNMIXING APPROACH *Joachim Hill, Trier - Germany*		S11.03a -1 THE CHALLENGES OF ANALYZING SOIL ORGANISMS-DRIVEN ECOSYSTEM SERVICES - AVAILABLE TOOLS *Juan José Jiménez, Jaca - Spain*
	S04.02a -2 TOWARDS NOVEL APPROACHES FOR COMPILING REMOTE SENSING *Michael Cherlet, Ispra - Italy*		S11.03a -2 CILIATES AS BIOINDICATORS OF SOIL QUALITY: FROM BIOMARKER TO COMMUNITY STRUCTURE ANALYSIS *Antonietta La Terza, Camerino - Italy*
	S04.02a -3 INTEGRATING ENVIRONMENTAL INFORMATION IN GULLY INITIATION TOPOGRAPHIC THRESHOLDS : APPLICATION TO THREE REGIONS OF WALLONIA (BELGIUM) *Alexandre Maugnard, Louvain-la-Neuve - Belgium*		S11.03a -3 THE IMPORTANCE OF THE SOIL MICROBIAL COMMUNITY IN REGULATING PATHOGEN DECAY *Emma Moynihan, Wexford - Ireland*
	S04.02a -4 ESTIMATING RAINFALL EROSIVITY FOR AFRICA WITH TRMM DATA *Anton Vrieling, Enschede - Netherlands*		S11.03a -4 MYCOTOXIN DEGRADATION BY NEMATODES AND COLLEMBOLANS IN WHEAT STRAW DEPENDING ON SOIL TEXTURE *Stefan Schrader, Braunschweig - Germany*
	S04.02a -5 SPECTRAL MAPPING OF MEDITERRANEAN SOIL SURFACE CRUSTS *Steven De Jong, Utrecht - Netherlands*		S11.03a -5 QUANTIFYING THE CONTRIBUTION OF FREE-LIVING NEMATODES TO NITROGEN MINERALIZATION IN MINIMALLY DISTURBED SOILS *Mesfin Tsegaye Gebremikael, Gent - Belgium*
	S04.02a -6 INTRODUCTION TO INDEXES IN IDENTIFICATION OF SALINE SOILS BY USING OF ASTER AND LISS III DATA *Seyed Kazem Alavipanah, Tehran - Iran, Islamic Republic of*		S11.03a -6 ROLE OF CROP RESIDUE MULCHES AND THEIR DECOMPOSITION ON SOIL FUNCTIONS IN CONSERVATION AGRICULTURE *Akhtar Iqbal, Reims - France*
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*	*15.00-15.30*	*COFFEE BREAK - Bar Pavilion 9*
BLOCK II 10.30-12.00	**S04.02b** **REMOTE SENSING TECHNIQUES FOR SOIL CHARACTERIZATION AND MONITORING** *Chair Persons:* Stefano Pignatti, Potenza - Italy Anton Vrieling, Twente - Netherlands Mariagrazia D'Emilio, Napoli - Italy	BLOCK IV 15.30-17.00	**S11.03b** **ECOSYSTEM SERVICES AND FUNCTIONS DRIVEN BY THE DIVERSITY OF SOIL BIOTA** *Chair Person:* Ciro Gardi, Ispra - Italy
	S04.02b -1 SPATIAL AND TEMPORAL TOPSOIL WATER CONTENT MAPPING IN ALPINE AREA BY USING SAR IMAGES *Claudia Notarnicola, Bolzano - Italy*		S11.03b -1 HOW DOES REDUCED TILLAGE INFLUENCE SOIL BIODIVERSITY, SOIL FUNCTIONS AND ECOSYSTEM SERVICES? THE EXAMPLE OF THE SUSTAIN PROJECT *Guénola Pérès, Paimpont - France*
	S04.02b -2 NEW DEVELOPMENTS TOWARDS OPERATIONAL SOIL SURFACE CHARACTERIZATION AND MONITORING BASED ON HYPERSPECTRAL IMAGERY: THE HYSOMA TOOLBOX *Sabine Chabrillat, Potsdam - Germany*		S11.03b -2 CHANGES IN SOIL MICROBIAL PROCESSES AND COMMUNITY STRUCTURE BY DIFFERENT LONG TERM TILLAGE SYSTEMS *Rajasekaran Murugan, Witzenhausen - Germany*
	S04.02b -3 ESTIMATING FIELD SCALE SOIL TEXTURAL PROPERTIES FROM AIRBORNE AND SATELLITE IMAGING SPECTROSCOPY *Raffaele Casa, Viterbo - Italy*		S11.03b -3 DOES RIVER RESTORATION CHANGE EARTHWORM COMMUNITIES, HUMUS FORMS AND SOIL STRUCTURE IN ALLUVIAL ECOSYSTEMS? *Claire Le Bayon, Neuchâtel - Switzerland*
	S04.02b -4 MAPPING VINEYARD TOPSOIL USING VERY HIGH SPATIAL RESOLUTION IMAGERY IN BURGUNDY, FRANCE *Emmanuel Chevigny, Dijon - France*		S11.03b -4 BIOGENIC SOIL STRUCTURES: FEEDBACKS BETWEEN BIOACTIVITY AND SOIL HYDROLOGY *Loes Van Schaik, Potsdam - Germany*
	S04.02b -5 SOIL HYDRAULIC PROPERTIES FROM LOCAL TO REGIONAL SCALE USING REMOTE SENSING AND PHYSICS-BASED MODEL *Binayak Mohanty, College Station - United States*		S11.03b -5 TRANSFORMATION AND DEGRADATION OF SOIL ORGANIC MATTER, MICROBIAL BIOMASS, POLYSACCHARIDES AND PROTEIN BY THE GEOPHAGOUS EARTHWORM METAPHIRE GUILLELMI *Jun Shan, Nanjing - China*
	S04.02b -6 QUANTITATIVE RESULTS FROM A NOVEL APPROACH TO REMOTE SENSING OF SOIL MOISTURE CONTENT IN A MICRO PROFILE SECTION UNDER VARIOUS PRECIPITATION ENERGIES *Alon Eliran, Tel Aviv - Israel*		S11.03b -6 IMPACT OF BIOCONTROL PLANTS ON BACTERIAL WILT AND NON-TARGETED SOIL MICROBIAL COMMUNITIES ON A NATURALLY INFESTED SOIL *Paula Fernandes, Lamentin - Martinique*
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*		
18.30-19.00	**CLOSING REMARKS**		

FRIDAY 6 JULY 2012 - ROOM OLMO - Pavilion 10

ORAL SESSIONS

BLOCK I 08.30-10.00	**S12.01** **PEDOLOGICAL PROCESSES AND SOIL POLLUTION** *Chair Person:* Claudio Zucca, Sassari - Italy	BLOCK III 13.30-15.00	**S07.07b** **LONG-TERM EFFECTS OF AGRONOMIC PRACTICES ON SOIL ORGANIC MATTER AND CROP PRODUCTIVITY** *Chair Persons:* Rosa Francaviglia, Roma - Italy Domenico Ventrella, Bari - Italy
	S12.01 -1 TRANSITION METAL STABLE ISOTOPE SYSTEMS IN SOIL SCIENCE *Moritz Bigalke, Bern - Switzerland*		S07.07b -1 CONTRIBUTION OF AGRICULTURAL CROP RESIDUE-C TO STABILIZED SOIL ORGANIC MATTER *Paul Voroney, Guelph - Canada*
	S12.01 -2 EARTHWORM BIOTURBATION INFLUENCE ON METALS BIOACCESSIBILITY AND BIODISPONIBILITY IN POLLUTED SOILS *Yann Foucault, Castanet-Tolosan - France*		S07.07b -2 RESPONSE OF SOIL ORGANIC MATTER AND SOIL MICROBIAL ACTIVITY TO LONG-TERM REDUCED TILLAGE UNDER ORGANIC FARMING *Paul Mäder, Frick - Switzerland*
	S12.01 -3 TRACE METAL CONTENTS IN AGRICULTURAL TOPSOILS AND SUBSOILS OF THE ISLAND OF RAB, CROATIA *Helena Bakic, Zagreb - Croatia*		S07.07b -3 DOES NO TILL INCREASE SOIL CARBON SEQUESTRATION ON THE LONG-TERM IN EUROPEAN TEMPERATE CLIMATE? ANALYSIS OF A LTE IN NORTHERN FRANCE *Bassem Dimassi, Laon - France*
	S12.01 -4 NUTRIENT AND POLLUTANT STATUS IN ARABLE SOILS IN THE PERI-URBAN REGION OF BEIJING *Marco Roelcke, Braunschweig - Germany*		S07.07b -4 LONG-TERM EFFECTS OF DIFFERENT FORMS OF ORGANIC FERTILIZERS AND TILLAGE ON SOIL ORGANIC CARBON AND CROP YIELDS *Sokrat Sinaj, Changins - Switzerland*
	S12.01 -5 SOIL POLLUTION MEASUREMENTS IN THE QUIRRA AREA, SARDINIA ISLAND (ITALY) *Massimo Zucchetti, Torino - Italy*		S07.07b -5 LONG-TERM TILLAGE TREATMENTS IMPACT ON THE PROPERTIES OF A HEAVY CLAY SOIL: INTERACTIONS BETWEEN ORGANIC CARBON, CLAY CONTENT, MICROBIAL ACTIVITY AND PHYSICAL PROPERTIES *Pascal Boivin, Genève - Switzerland*
			S07.07b -6 IMPACTS OF ARABLE MANAGEMENT ON SOIL ORGANIC CARBON AND CROP PARAMETERS *Heide Spiegel, Vienna - Austria*
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*	*15.00-15.30*	*COFFEE BREAK - Bar Pavilion 9*
BLOCK II 10.30-12.00	**S07.07a** **LONG-TERM EFFECTS OF AGRONOMIC PRACTICES ON SOIL ORGANIC MATTER AND CROP PRODUCTIVITY** *Chair Persons:* Domenico Ventrella, Bari - Italy Rosa Francaviglia, Roma - Italy	BLOCK IV 15.30-17.00	**S07.07c** **LONG-TERM EFFECTS OF AGRONOMIC PRACTICES ON SOIL ORGANIC MATTER AND CROP PRODUCTIVITY** *Chair Persons:* Uwe Franko, Halle - Germany Christopher Brock, Giessen - Germany Hansrudolf Oberholzer, Zurich - Switzerland
	S07.07a -1 LONG-TERM RESEARCHES FOR TYPICAL CROPPING SYSTEMS OF SOUTHERN ITALY: EFFECTS ON SOIL FERTILITY AND CROP YIELD *Domenico Ventrella, Bari - Italy*		S07.07c -1 CHRONOSEQUENCE – A SPACE-FOR-TIME SUBSTITUTION FOR SOIL FERTILITY ASSESSMENT OF DIFFERENT LAND-USE TYPES IN THE SOUTHERN ANDES OF ECUADOR *Etienne Bahr, Dresden - Germany*
	S07.07a -2 SOIL ORGANIC CARBON TRENDS IN ARABLE SOILS: INTERPRETING IMPERFECT EVIDENCE FROM EXPERIMENTS AND MAKING PRACTICAL MANAGEMENT DECISIONS *David Powlson, Harpenden - United Kingdom*		S07.07c -2 LONG-TERM FERTILIZATION EFFECTS ON ABIOTIC AND BIOTIC PARAMETERS OF SOIL FERTILITY AND BIOMASS PRODUCTIVITY *Jana Schmidt, Halle - Germany*
	S07.07a -3 LONG-TERM EFFECTS OF MINERAL FERTILISERS AND ORGANIC MANURES ON SOIL ORGANIC MATTER AND CROP PRODUCTION *Andrew Macdonald, Harpenden - United Kingdom*		S07.07c -3 DYNAMICS OF SOIL C FRACTIONS DURING THE CONVERSION OF SHORT-ROTATION COPPICES INTO ARABLE LAND AND GRASSLAND *Charlotte Toenshoff, Witzenhausen - Germany*
	S07.07a -4 SHORT- AND LONG-TERM EFFECTS OF DIFFERENT ORGANIC CARBON INPUTS ON CROP YIELDS AND SOIL FERTILITY EVALUATED IN SWEDISH LONG-TERM FIELD EXPERIMENTS *Thomas Kätterer, Uppsala - Sweden*		S07.07c -4 SOIL CARBON BUDGET OF A 50-YEAR RESIDUE MANAGEMENT EXPERIMENT IN A BELGIAN CROPLAND *Pauline Buysse, Gembloux - Belgium*
	S07.07a -5 SUSTAINABILITY OF CROPPING SYSTEMS IN NUTRIENT LIMITING CONDITIONS IN A MEDITERRANEAN ENVIRONMENT *Antonio Berti, Legnaro (PD) - Italy*		S07.07c -5 SIMULATION OF SOC DYNAMICS UNDER DIFFERENT FERTILIZING MANAGEMENT PRACTICES USING ROTHC CARBON MODEL *Rosa Francaviglia, Rome - Italy*
	S07.07a -6 LONG-TERM EFFECTS OF AGRONOMIC PRACTICES ON SOIL ORGANIC CARBON AND CROP PRODUCTIVITY IN THE INTERNAL HILLS OF SICILY *Salvatore Luciano Cosentino, Catania - Italy*		S07.07c -6 USING LONG TERM EXPERIMENTS TO ASSESS SOM REPRODUCTION ON ARABLE FIELDS *Uwe Franko, Halle - Germany*
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*		
18.30-19.00	**CLOSING REMARKS**		

FRIDAY 6 JULY 2012 - ROOM LECCIO - Pavilion 10

ORAL SESSIONS

	S07.06a **MECHANISMS OF C STABILIZATION AND SEQUESTRATION IN SOILS** *Chair Persons:* Claudio Zaccone, Foggia - Italy Claudio Marzadori, Bologna - Italy		**S12.04a** **BIOREMEDIATION OF SOILS AND SEDIMENTS CONTAMINATED WITH ORGANIC CHEMICALS: ASSESSING AND OVERCOMING CHEMICAL AND MICROBIOLOGICAL CONSTRAINTS** *Chair Persons:* Edoardo Puglisi, Piacenza - Italy Lorenz Adrian, Leipzig - Germany
	S07.06a -1 SOIL ORGANIC CARBON STOCKS IN SOUTHEAST GERMANY AS AFFECTED BY LAND USE, SOIL TYPE AND SAMPLING DEPTH *Margit Von Lützow, Freising-Weihenstephan - Germany*		S12.04a -1 PRINCIPLES AND APPROACHES FOR BIOREMEDIATION OF PCB-CONTAMINATED SOILS: A CASE STUDY *Martin-Laurent Fabrice, Dijon - France*
	S07.06a -2 THE VARYING CONTRIBUTION OF PEDOGENE OXIDES AND CLAY MINERALS TO STABILIZE CARBON ALONG A SLOPE TRANSECT *Sebastian Doetterl, Louvain-la-Neuve - Belgium*		S12.04a -2 DECONTAMINATION AND FUNCTIONAL RECLAMATION OF DREDGED BRACKISH SEDIMENTS *Serena Doni, Pisa - Italy*
BLOCK I 08.30-10.00	S07.06a -3 THE EFFECTS OF LAND CONVERSION TO BIOENERGY CROPS ON SOIL CARBON *Gary Mcclean, Edinburgh - United Kingdom*	BLOCK III 13.30-15.00	S12.04a -3 ENRICHMENT OF HEXACHLOROBENZENE AND 1,3,5-TRICHLOROBENZENE TRANSFORMING BACTERIA FROM RIVER SEDIMENTS IN VIETNAM AND GERMANY *Hoa Duan Tran, Leipzig - Germany*
	S07.06a -4 COMPOSITION AND TURNOVER OF ORGANIC MATTER IN PERMAFROST SOILS *Robert Mikutta, Hannover - Germany*		S12.04a -4 MULTIPLE PRE-EXPOSURE OF A SOIL MICROBIAL COMMUNITY TO ORGANIC CONTAMINANTS DOES NOT ENHANCE SOIL MICROBIAL COMMUNITY FUNCTIONAL RESPONSE *Deborah Shuhui Lin, Perth - Australia*
	S07.06a -5 A COMPARISON OF RADIOCARBON AGES IN ORGANIC CARBON OF CHARCOAL AND PARTICLE-SIZE FRACTIONS IN A SANDY SOIL FROM SOUTH-EAST AUSTRALIA *Eleanor Hobley, Newcastle - Australia*		S12.04a -5 DECONTAMINATION OF A POLYCHLORINATED BIPHENYLS-POLLUTED SOIL BY PHYTOREMEDIATION-ASSISTED BIOAUGMENTATION *Thierry Lebeau, Nantes - France*
	S07.06a -6 BIOLOGICAL PATHWAYS OF LITTER DECOMPOSITION AND SOIL CARBON STABILIZATION: RETHINKING THE ROLE OF PLANT INPUTS AND MICROBIAL COMMUNITIES *A. Stuart Grandy, Durham, NH - United States*		S12.04a -6 IN SITU LONG-TERM EVOLUTION OF FUNGAL ABUNDANCE AND COMMUNITY STRUCTURE IN A POLYCYCLIC AROMATIC HYDROCARBON AND HEAVY METAL CONTAMINATED SOIL: EFFECTS OF PLANT COVER AND THERMAL DESORPTION TREATMENT *Cécile Thion-Caupert, Nancy - France*
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*	*15.00-15.30*	*COFFEE BREAK - Bar Pavilion 9*
	S07.06b **MECHANISMS OF C STABILIZATION AND SEQUESTRATION IN SOILS** *Chair Persons:* César Plaza, Madrid - Spain Manuel Tejada, Seville - Spain		**S12.04b** **BIOREMEDIATION OF SOILS AND SEDIMENTS CONTAMINATED WITH ORGANIC CHEMICALS: ASSESSING AND OVERCOMING CHEMICAL AND MICROBIOLOGICAL CONSTRAINTS** *Chair Persons:* Edoardo Puglisi, Piacenza - Italy Lorenz Adrian, Leipzig - Germany
	S07.06b -1 FRACTIONS MEET FLUXES –WHAT DETERMINES THE DISTRIBUTION OF SOIL CARBON OVER DENSITY FRACTIONS AND HOW DOES IT RELATE TO TURNOVER? *Marion Schrumpf, Jena - Germany*		S12.04b -1 CHARACTERISATION OF POTENTIAL FOR NATURAL ATTENUATION WITHOUT GROUNDWATER MONITORING WELLS? – A NEW DIRECT PUSH PROBE *Christian Schurig, Leipzig - Germany*
	S07.06b -2 IS STABLE ORGANIC MATTER PHYSICALLY PROTECTED ? AN APPROACH USING LONG TERM BARE FALLOW EXPERIMENTS *Remigio Paradelo Celso, Grignon - France*		S12.04b -2 INSIGHTS INTO THE GENOME OF A XENOBIOTIC DEGRADING BACTERIUM *Edoardo Puglisi, Piacenza - Italy*
	S07.06b -3 STABILIZATION OF ORGANIC MATTER BY ADSORPTION TO AND COPRECIPITATION WITH FERRIHYDRITE *Chunmei Chen, Newark - United States*		S12.04b -3 ARE ENZYMES USEFUL TOOLS IN BIOREMEDIATION PROCESSES? *Maria A. Rao, Portici - Italy*
BLOCK II 10.30-12.00	S07.06b -4 RELATION BETWEEN LIGNINS AND ALIPHATIC CONSTITUENTS IN SOILS HIGHLIGHTED BY AN ISOLATION PROCEDURE: IMPLICATION FOR LIGNIN DEGRADATION ? *Mathieu Thevenot, Villeneuve d'Ascq - France*	BLOCK IV 15.30-17.00	S12.04b -4 ASSESSMENT OF PAH AND MHC CONTAMINATED SOILS BASED ON BIOAVAILABILITY *Konstantin Terytze, Berlin - Germany*
	S07.06b -5 HUMIN: IS IT A REALLY A HUMIC SUBSTANCE? *Roger Swift, Queensland - Australia*		S12.04b -5 HIGHWAYS VERSUS PIPELINES – CONTRIBUTIONS OF TWO FUNGAL TRANSPORT MECHANISMS TO EFFICIENT BIOREMEDIATION *Thomas Banitz, Leipzig - Germany*
	S07.06b -6 MINERAL-ASSOCIATED SOIL C STABILIZATION IN THE 80 YEARS BARE FALLOW CHRONOSEQUENCE *Claire Chenu, Thiverval-Grignon - France*		S12.04b -6 BRINGING (BIO)ACCESSIBILITY EXTRACTIONS TO THE NEXT LEVEL - COMBINING MOBILISATION MEDIUM AND INFINITE ABSORPTION SINK *Varvara Gouliarmou, Roskilde - Denmark*
	S07.06b -7 SOIL AGGREGATE- AND PARTICLE-ASSOCIATED ORGANIC CARBON AND NITROGEN POOLS UNDER DIFFERENT LAND USES IN ETHIOPIA *Aweke Gelaw, Aas - Norway*		S12.04b -7 EFFECT OF STRONG SORPTION ON BIODEGRADATION AND VOLATILIZATION OF PCBS *Upal Ghosh, Baltimore - United States*
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*		S12.04b -8 BIODEGRADATION OF AN AGED DIESEL CONTAMINATION: EFFECTS OF SOIL MATRIX TYPE, CONTAMINANT CONCENTRATION, AND BIOAVAILABILITY *Nora B. Sutton, Wageningen - Netherlands*
18.30-19.00	**CLOSING REMARKS**		

FRIDAY 6 JULY 2012 - ROOM BIANCOSPINO - Pavilion 10

ORAL SESSIONS

BLOCK I 08.30-10.00	**S13.04** **INTERNATIONAL CRITICAL ZONE OBSERVATORY RESEARCH FOCUSING ON SOIL** *Chair Persons:* Winfried E.H. Blum, Vienna - Austria Pauline F.M. Van Gaans, Utrecht - The Netherlands	BLOCK III 13.30-15.00	**S12.06b** **OPPORTUNITIES AND CHALLENGES IN MINE SITE REHABILITATION** *Chair Persons:* Héctor M. Conesa, Cartagena - Spain Marco Contin, Udine - Italy
	S13.04 -1 CHARACTERIZATION OF EUROPEAN CRITICAL ZONE OBSERVATORIES AT SOIL PROFILE SCALE – AN OVERVIEW *Svetla Rousseva, Sofia - Bulgaria*		S12.06b -1 DO AVAILABILITY RESULTS OBTAINED BY CHEMICAL METHODS REALLY TRANSLATE INTO "BIOLOGICAL AVAILABILITY" OBTAINED BY OBSERVING EFFECTS ON ORGANISMS? *Paula Alvarenga, Beja - Portugal*
	S13.04 -2 IMPACT OF TIME AND LAND USE ON CARBON ACCUMULATION AND STRUCTURE FORMATION IN SOILS *Georg J. Lair, Vienna - Austria*		S12.06b -2 PHYTOREMEDIATION OF TRACE ELEMENTS (AS, CD, CU AND ZN) IN A DERELICT ARSENOPYRITE MINE (CENTRE OF SPAIN): MULTISCALE APPROACHES *Eduardo Moreno, Leuven - Belgium*
	S13.04 -3 A COUPLED CARBON, AGGREGATION, AND STRUCTURE TURNOVER MODEL FOR TOPSOILS *Fotini Stamati, Chania - Greece*		S12.06b -3 GEOCHEMICAL ASSESSMENT OF THE MIXTURE OF TAILINGS AND WASTE ROCK WITH AMENDMENTS (LIME AND BENTONITE) FOR A WATER-SHEDDING COVER ON MINE WASTES *Lu Zhao, Brisbane - Australia*
	S13.04 -4 CHARACTERISATION OF THE MICROBIAL COMMUNITIES WITHIN SOIL AGGREGATES DEVELOPED UNDER DIFFERENT LAND MANAGEMENT *Bas Van Der Zaan, Utrecht - Netherlands*		S12.06b -4 CHANGES IN MICROBIAL COMMUNITY STRUCTURE LINKED TO ORGANIC AMENDMENTS IN RECONSTRUCTED SOILS *Mark Beasse, Edmonton, Alberta - Canada*
	S13.04 -5 OXIDE NANOPARTICLES IN A PODZOL SOIL: EXTRACTION AND SIZE DISTRIBUTION *Liping Weng, Wageningen - Netherlands*		S12.06b -5 RECLAIMED LIGNITE MINING AREAS IN LUSATIA – DEVELOPMENT OF SOIL PHYSICAL PARAMETERS OF AN AGRICULTURAL SITE WITHIN THE FIRST YEARS AFTER THE CONSTRUCTION *Julia Kruemmelbein, Cottbus - Germany*
	S13.04 -6 AN INTERNATIONAL INITIATIVE FOR CRITICAL ZONE OBSERVATORIES (CZO) AND RESEARCH ALONG GLOBAL ENVIRONMENTAL GRADIENTS *Steven Banwart, Sheffield - United Kingdom*		
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*	*15.00-15.30*	*COFFEE BREAK - Bar Pavilion 9*
BLOCK II 10.30-12.00	**S12.06a** **OPPORTUNITIES AND CHALLENGES IN MINE SITE REHABILITATION** *Chair Persons:* Michael Haubold-Rosar, Finsterwalde - Germany Thomas Baumgartl, Brisbane - Australia	BLOCK IV 15.30-17.00	**S08.03** **PEDOTRANSFER FUNCTIONS IN SOIL HYDROLOGY: STILL A MYTH, OR A PLEASANT REALITY? APPLICATIONS, VALIDATIONS, AND CASE STUDIES** *Chair Person:* Nunzio Romano, Napoli - Italy
	S12.06a -1 THE EFFECT OF COMBINED IN SITU IMMOBILISATION AND SUBSEQUENT RHIZOSPHERE ACIDIFICATION ON THE PHYTOEXTRACTION EFFICIENCY OF WILLOWS *Markus Puschenreiter, Tulln - Austria*		S08.03 -1 APPLYING PEDOTRANSFERFUNCTIONS: THE SORCERER´S APPRENTICE AT WORK? *Johan Bouma, Wageningen - Netherlands*
	S12.06a -2 ESTABLISHING PHYTOSTABILISATION FIELD PLOTS IN CU-RICH MINE TAILINGS: AN INITIAL EVALUATION OF PLANT SPECIES AND SOIL AMENDMENTS. *Petra Kidd, Santiago de Compostela - Spain*		S08.03 -2 SOIL INFERENCE SYSTEMS: MAKING THE MYTH INTO A REALITY *Jason Morris, Sydney - Australia*
	S12.06a -3 APPLICATION OF ORGANIC SECONDARY RAW MATERIALS FOR THE RECLAMATION OF DEGRADED SITES *Michael Haubold-Rosar, Finsterwalde - Germany*		S08.03 -3 HOW ACCURATE AND RELIABLE ARE PAN-EUROPEAN PEDOTRANSFER FUNCTIONS? *Mélanie Weynants, Ispra - Italy*
	S12.06a -4 CO-EVOLUTION OF SOILS AND LANDFORMS: PEDOGENESIS AND EROSION MODELLING OVER DECADAL TIMESCALES FOR DISTURBED LANDS *Garry Willgoose, Callaghan - Australia*		S08.03 -4 THE ROLE OF PEDOTRANSFER FUNCTIONS IN THE UNCERTAINTY AND SENSITIVITY ANALYSIS OF SIMULATED SOIL MOISTURE *Lien Loosvelt, Ghent - Belgium*
	S12.06a -5 DEVELOPMENT OF A TOOL-BOX TO DELIVER A MICROBIAL ASSISTED PHYTOREMEDIATION PROCESS WITHIN THE MINE SITE OF INGURTOSU (SARDINIA, ITALY) *Chiara Alisi, Rome - Italy*		S08.03 -5 APPLICATION OF PEDOTRANSFER FUNCTIONS FOR 3D-DISTRIBUTED HYDRAULIC PROPERTIES OF GENERATED CATCHMENT MODELS *Horst H. Gerke, Muencheberg - Germany*
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*		S08.03 -6 INFLUENCE OF PARTICLE-SIZE DISTRIBUTION MEASUREMENT METHOD ON THE PREDICTION OF SOIL WATER RETENTION CURVE *Massimo Iovino, Palermo - Italy*
			S08.03 -7 PEDOTRANSFER FUNCTION BASED MULTI-MODEL ENSEMBLE ESTIMATION OF SOIL WATER STORAGE, DRAINAGE AND ACTUAL EVAPOTRANSPIRATION *Jacques Diederik, Mol - Belgium*
			S08.03 -8 WHY DO THEY KEEP REJECTING MY MANUSCRIPT - DO-S, DON'T-S AND NEW HORIZONS OF PTF STUDIES *Attila Nemes, College Park - United States*
18.30-19.00	**CLOSING REMARKS**		

FRIDAY 6 JULY 2012 - ROOM ALLORO - Pavilion 10

ORAL SESSIONS

	S04.03 **SOIL MICRO-HETEROGENEITY: NOVEL MEASUREMENT TECHNIQUES, MODELLING AND MACROSCOPIC IMPACTS** *Chair Persons:* Philippe C. Baveye, Troy - United States Veronica Morales, Abertay - United Kingdom		**S12.03** **BIOGEOCHEMISTRY OF CONTAMINANTS IN WETLAND AND RIVER FLOODPLAIN SOILS** *Chair Persons:* Ruben Kretzschmar, Zurich - Switzerland Christian Mikutta, Zurich - Switzerland
	S04.03 -1 REVEALING SOIL FEATURES AND PROCESSES USING NANOSIMS *Carmen Hoeschen, Freising-Weihenstephan - Germany*		S12.03 -2 TEMPORAL AND SPATIAL VARIATION OF IRON AND PHOSPHORUS STATUS IN A WETLAND SOIL *Ole K. Borggaard, Frederiksberg - Denmark*
	S04.03 -2 PROBING SOIL MICROHETEROGENEITY BY NUCLEAR MAGNETIC RESONANCE (NMR) *Sabina Haber-Pohlmeier, Aachen - Germany*		S12.03 -2 INTERACTION BETWEEN SALINITY AND HEAVY-METAL POLLUTION ON TAMARIX GALLICA, A POTENTIAL CANDIDATE FOR PHYTOREMEDIATION OF MEDITERRANEAN COASTAL POLLUTED SOILS *Renée Abou Jaoudé, Viterbo - Italy*
BLOCK I 08.30-10.00	S04.03 -3 DYNAMICS OF ROOT RESPONSES TO WATER HETEROGENEITY IN SOIL USING NEUTRON RADIOGRAPHY *Abbas Dara, Potsdam - Germany*	BLOCK III 13.30-15.00	S12.03 -3 DYNAMIC OF HEAVY METALS AND ARSENIC IN FLOODPLAIN SOILS – RESULTS OF FIELD AND LYSIMETER EXPERIMENTS *Holger Rupp, Falkenberg - Germany*
	S04.03 -4 NETWORK MODELS TO INVESTIGATE THE ROLE OF SOIL STRUCTURAL HETEROGENEITY ON MICROBIAL INVASION *Francisco J. Perez-Reche, Dundee - United Kingdom*		S12.03 -4 MOBILITY OF ARSENIC IN IRRIGATED RICE SYSTEMS ON FLOODPLAIN SOILS *Steve Mcgrath, Harpenden - United Kingdom*
	S04.03 -5 QUANTIFYING DISTURBANCE OF SOIL STRUCTURE AT MICROBIAL SCALES IN THE PREPARATION OF BIOLOGICAL SECTIONS *Thilo Eickhorst, Bremen - Germany*		S12.03 -5 CHARACTERISATION OF THE TRANSFER AND BIODEGRADATION OF CHLOROACETAMIDE HERBICIDES IN LAB-SCALE WETLANDS *Elodie Maillard, Strasbourg - France*
	S04.03 -6 MODELING AND RECONSTRUCTION OF SOIL MICROSTRUCTURE USING STATISTICAL PHYSICS METHODS AND SIMULATED ANNEALING *Marina Karsanina, Moscow - Russian Federation*		S12.03 -6 TERNARY COMPLEX FORMATION BETWEEN ARSENATE AND FERRIC IRON COMPLEXES OF HUMIC SUBSTANCES *Christian Mikutta, Zurich - Switzerland*
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*	*15.00-15.30*	*COFFEE BREAK - Bar Pavilion 9*
	S10.02 **NEW TECHNOLOGIES TO DETERMINE THE SOIL INFLUENCE ON WINE GRAPE AND OTHER QUALITY CROPS** *Chair Persons:* Edoardo Costantini, Firenze - Italy María Concepción Ramos, Lleida - Spain		**S12.05** **SPECIATION AND LOSSES OF PHOSPHORUS AND METALS FROM SOILS AN MITIGATION MEASURES** *Chair Persons:* Sara De Bolle, Ghent - Belgium Gerwin F. Koopmans, Wageningen - Netherlands
	S10.02 -1 INFLUENCE OF THE SOIL TYPE ON THE MUST QUALITY IN A VINEYARD OF THE D.O.CA RIOJA *Urtzi Leibar, Derio - Spain*		S12.05 -1 EFFECT OF INORGANIC COLLOIDS ON THE DETERMINATION OF DISSOLVED P BY THE DGT TECHNIQUE, ION CHROMATOGRAPHY AND COLORIMETRY *Christoff Van Moorleghem, Leuven - Belgium*
	S10.02 -2 SR ISOTOPES AS A ROBUST TRACER FOR HIGH-QUALITY WINES AND PRODUCTION TERROIR *Eleonora Braschi, Firenze - Italy*		S12.05 -2 CHARACTERIZATION OF NANO-SIZED COLLOIDAL PHOSPHORUS SPECIES IN PIPE DRAIN AND TRENCH WATERS FROM A FERTILIZED CLAY SOIL USING ASYMMETRIC FLOW FIELD FLOW FRACTIONATION *Inge C. Regelink, Wageningen - Netherlands*
BLOCK II 10.30-12.00	S10.02 -3 UNEXPECTED RELATIONSHIPS BETWEEN DC13, WATER DEFICIT, AND WINE GRAPE PERFORMANCE *Edoardo A.c. Costantini, Firenze - Italy*	BLOCK IV 15.30-17.00	S12.05 -3 PHOSPHORUS MOBILITY AFFECTED BY SLURRY APPLICATION TECHNIQUE *Nadia Glæsner, Frederiksberg - Denmark*
	S10.02 -4 REALISATION OF TERRONS IN THE LOWER HUNTER VALLEY, AUSTRALIA *Alex Mcbratney, Sydney - Australia*		S12.05 -4 TRANSPORT OF DISSOLVED ORGANIC PHOSPHORUS (DOP) FROM SOIL TO SURFACE WATER ON HEAVILY MANURED GRASSLAND ON A SANDY SOIL *Dries Verheyen, Leuven - Belgium*
	S10.02 -5 SOIL-PLANT WATER STATUS AND WINE QUALITY: INNOVATIVE IMPLEMENTATION IN VITICULTURE ZONING *Antonello Bonfante, Ercolano (NA) - Italy*		S12.05 -5 EFFECT OF DIFFERENT SLURRY APPLICATION TECHNIQUES ON PHOSPHORUS OUTPUT INTO TILE DRAINS *Rosemarie Hösl, Petzenkirchen - Austria*
	S10.02 -6 RELATIONSHIPS BETWEEN DIGITAL SOIL MAP UNITS AND CROP RESPONSE THROUGH THE NDVI ANALYSIS IN A VINEYARD REGION OF THE NE SPAIN *José A. Martínez-Casasnovas, Lleida - Spain*		S12.05 -6 FIXATION OF PHOSPHORUS BY ADDING AMENDMENTS TO P SATURATED SOILS IN FLANDERS *Sara De Bolle, Ghent - Belgium*
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*		S12.05 -7 REDUCING PHOSPHORUS LEACHING FROM DRAINED HEAVY CLAY SOIL *Barbro Ulén, Uppsala - Sweden*
			S12.05 -8 REMOVAL OF PHOSPHORUS FROM DRAINAGE WATER USING AN ENVELOPED PIPE DRAIN ***Gerwin F. Koopmans, Wageningen - Netherlands***
18.30-19.00	**CLOSING REMARKS**		

FRIDAY 6 JULY 2012 - ROOM MIRTO - Pavilion 10

ORAL SESSIONS

BLOCK I 08.30-10.00	**S13.01a** **SOIL MEMORY: ARCHAEOLOGICAL AND NATURAL HERITAGE PRESERVED IN SOILS** *Chair Person:* György Füleky, Gödöllő - Hungary	BLOCK III 13.30-15.00	**S13.03** **SOIL POICY AND SOIL INFORMATION IN A CHANGING WORLD** *Chair Persons:* Pavel Krasilnikov, Moscow - Russian Federation Allan Lilly, Aberdeen - United Kingdom
	S13.01a -1 KEEPING OF INFORMATION ABOUT ENVIRONMENT OF ANCIENT MAN HABITAT IN PALEOSOLS OF DIFFERENT BURIAL CONDITIONS *Maria Dergacheva, Novosibirsk - Russian Federation*		S13.03 -1 THE GLOBAL SOIL PARTNERSHIP *Ronald Vargas-Rojas, Rome - Italy*
	S13.01a -2 PALEOENVIRONMENT AND POTENTIAL USE OF NATURAL RESOURCES OF A PRECERAMIC OCCUPATION AT VERACRUZ MEXICO: AN APPROACH FROM PALEOPEDOLOGY *Paris Alejandro Ferrand Alcaraz, Mexico - Mexico*		S13.03 -2 SOIL ATLAS OF LATIN AMERICA: AN INNOVATIVE TOOL FOR POLICY DEVELOPMENT AND AWARENESS RAISING *Ciro Gardi, Ispra - Italy*
	S13.01a -3 APPLYING SOIL CHRONOLOGY IN STUDIES OF ANCIENT LAND USE *Vladimir F. Stolba, Aarhus - Denmark*		S13.03 -3 SOIL CONSERVATION IN EU AGRICULTURE: INTERACTION BETWEEN POLICY MEASURES AND FARMING PRACTICES TO REACH SOIL QUALITY *Geertrui Louwagie, Seville - Spain*
	S13.01a -4 INFLUENCE OF HUMAN ACTIVITIES ON SOIL PROPERTIES AND LANDSCAPE EVOLUTION IN LES ALCUSSES (VALENCIA, SPAIN) SINCE NEOLITHIC TIMES *Rebeca Tallón-Armada, Santiago de Compostela - Spain*		S13.03 -4 THE IMPLEMENTATION OF SOIL CONSERVATION POLICIES IN BRANDENBURG (GERMANY) – DEFICITS AND POLICY RECOMMENDATIONS *Nina Hagemann, Leipzig - Germany*
	S13.01a -5 GEOCHEMICAL SOIL SIGNATURES ON A CLASSICAL-HELLENISTIC SITE IN SOUTH-WESTERN TURKEY AS A PROXY FOR ANCIENT HUMAN ACTIVITY *Katrijn Dirix, Leuven - Belgium*		S13.03 -5 PROVISIONAL EUROPEAN SOIL DATA INFRASTRUCTURE - THE GS SOIL APPROACH *Katharina Feiden, Hannover - Germany*
			S13.03 -6 DATA REQUIREMENTS FOR EUROPEAN ENVIRONMENTAL REPORTING AND POLICY IMPLEMENTATION *Geertrui Louwagie, Seville - Spain*
			S13.03 -7 THE ROLE OF EUROPEAN SOIL DATA CENTRE (ESDAC) TO EUROPEAN POLICY SUPPORT AND PUBLIC DATA REQUIREMENTS *Panos Panagos, ISPRA - Italy*
10.00-10.30	*COFFEE BREAK - Bar Pavilion 9*	*15.00-15.30*	*COFFEE BREAK - Bar Pavilion 9*
BLOCK II 10.30-12.00	**S13.01b** **SOIL MEMORY: ARCHAEOLOGICAL AND NATURAL HERITAGE PRESERVED IN SOILS** *Chair Person:* Karen Vancampenhout, Leuven - Belgium	BLOCK IV 15.30-17.00	**S13.05** **TAILORED IMPROVEMENT OF BROWNFIELD REGENERATION IN EUROPE: A DISCUSSION OF STATE-OF-THE-ART APPROACHES, TECHNOLOGIES AND TOOLS, AND COMPARISON WITH INTERNATIONAL CONTEXT** *Chair Persons:* Stephan Bartke, Leipzig - Germany Antonio Marcomini, Venezia - Italy
	S13.01b -1 THE ECHO-SOIL INCENTIVE: TOWARDS A EUROPEAN COOPERATION ON SOIL HERITAGE *Karen Vancampenhout, Leuven - Belgium*		S13.05 -1 HOLISTIC INTEGRATED DECISION SUPPORT SYSTEMS FOR BROWNFIELD REVITALIZATION – KNOWLEDGE TRANSFER CHALLENGES IN TOOL DEVELOPMENT *Maximilian Morio, Tübingen - Germany*
	S13.01b -2 UNLOCKING THE HIDDEN LEGACY OF HUMAN SOIL INHUMATION: MICROMORPHOLOGY OF ST. ROMBOUTS GRAVEYARD, MECHELEN. *Carol Lang, York - United Kingdom*		S13.05 -2 SOME CRITICAL ISSUES ON RISK ASSESSMENT AND REMEDIATION OF INDUSTRIAL CONTAMINATED SITES *Fasheng Li, Beijing - China*
	S13.01b -3 IN SITU PRESERVATION AND PRESENTATION OF HERITAGE SOILS IN LANDSCHAP DE LIEREMAN (BELGIUM) *Bas Van Der Veken, Kasterlee - Belgium*		S13.05 -3 TREE CORING AS A PHYTOSCREENING METHOD *Mette Algreen, Kgs. Lyngby - Denmark*
	S13.01b -4 COLLUVIAL SOILS AS ARCHIVES OF NATURAL AND CULTURAL HERITAGE: THE CASE STUDY OF THE ARCHAEOLOGICAL SITE OF MONTENEGRO (GALICIA, SPAIN). *Manuela Costa-Casais, Spain - Spain*		S13.05 -4 SOIL-WASHING WITH REUSED FLUIDS FOR IN-SITU AND ON-SITE REMEDIATION *Nicolas Fatin-Rouge, Besançon - France*
	S13.01b -5 CHARCOAL-AFFECTED SOILS AT MOUND KILN SITES IN WALLONIA, BELGIUM: FROM HISTORICAL LAND USE TO SOIL HERITAGE *Brieuc Hardy, Louvain-la-Neuve - Belgium*		S13.05 -5 TIMBRE EXPERT SYSTEM AS INFORMATION PLATFORM FOR INNOVATIVE AND WIDELY APPLICABLE STRATEGIES, TECHNOLOGIES AND SOLUTIONS FOR BROWNFIELD REGENERATION *Lisa Pizzol, Venice - Italy*
	S13.01b -6 INVESTIGATING THE RELATIONSHIP BETWEEN ARSENIC POLLUTION AND SOCIAL CRISES IN ETRUSCAN CIVILISATION: WAS ARSENIC POISONING A CONCOMITANT CAUSE? *Ilenia Cattani, Piacenza - Italy*		S13.05 -6 KNOWLEDGE AND DECISION MAKING IN BROWNFIELD REVITALIZATION: CROSS-CULTURAL VARIATIONS WITHIN EASTERN EUROPE *Filip Alexandrescu, Leipzig - Germany*
12.00-13.30	*LUNCH BREAK - "La Caravella" Restaurant and Cash Bar Pavilion 9*		
18.30-19.00	**CLOSING REMARKS**		

FRIDAY 6 JULY 2012 - FIRST FLOOR *- Pavilion 10*

POSTER SESSIONS

	S04.02-P **REMOTE SENSING TECHNIQUES FOR SOIL CHARACTERIZATION AND MONITORING**
	S04.02-P -1 ANALYSIS OF THE REPRESENTATIVENESS OF LAND USE IN FRANCE BY THE FRENCH SOIL MONITORING NETWORK *Line Boulonne, Orleans - France*
	S04.02-P -2 EFFECTIVENESS OF SOIL AND WATER CONSERVATION IN THE USAMBARA MOUNTAINS, TANZANIA *Geert Sterk, Utrecht - Netherlands*
	S04.02-P -3 GENERATING LAND COVER/USE TIME SERIES FROM ARCHIVE SATELLITE DATA FOR LAND DEGRADATION ASSESSMENTS: A PROCEDURE BASED ON IMAGE SEGMENTATION AND HYBRID CLASSIFIERS *Tomaso Ceccarelli, Rome - Italy*
	S04.02-P -4 USING THE WORLDVIEW2 SATELLITE DATA TO MAP SEVERAL PROPERTIES OF POST-GLACIAL SOILS *Krzysztof Kusnierek, Poznan - Poland*
	S04.02-P -5 IDENTIFICATION OF EROSION PROCESSES DYNAMICS USING THE EROSION RESPONSE UNITS (ERU´S) CONCEPT RELETED TO THE SEDIMENT TRASPORT IN A LIGURIAN RIVER BASIN *Claudia Scopesi, Genova - Italy*
	S04.02-P -6 INPUT OF ATMOSPHERIC DUST AND SOLUBLE ELEMENTS INTO A SAND DUNE ECOSYSTEM IN THE NEGEV, ISRAEL AND ITS CONTRIBUTION TO THE NUTRIENT STATUS OF DESERT BIOLOGICAL SOIL CRUST *Vincent Felde, Giessen - Germany*
	S04.02-P -7 RELATION BETWEEN SOIL SALINITY AND AGRICULTURE AROUND THE NATURAL PARK OF “EL HONDO DE ELCHE Y CREVILLENTE” (ALICANTE, SPAIN) *Jose Navarro-Pedreño, Elche - Spain*
	S04.02-P -8 A MULTITEMPORAL EXTENSION OF TS-VI METHOD FOR THE EVALUATION OF SURFACE SOIL MOISTURE OVER HETEROGENEOUS LARGE AREAS *Katia Fontanelli, Sesto Fiorentino (FI) - Italy*
	S04.02-P -9 A NOVEL APPROACH FOR SOIL MAPPING OF WRB UNITS *Endre Dobos, Miskolc - Hungary*
	S04.02-P -10 AN EXPEDITIOUS RISK ANALYSIS OF INTENSE RAINFALL EVENTS IN LOW MOUNTAIN RANGES OF CENTRAL GERMAN UPLANDS UNDER THE ASPECT OF A SUSTAINABLE AND DECENTRALISED FLOOD RETENTION *David Bertermann, Erlangen~Nuremberg - Germany*
	S04.02-P -11 DEVELOPMENT OF ENVIRONMENTAL INDICATORS FOR ESTIMATING VULNERABILITY TO LAND DEGRADATION *Vito Imbrenda, Tito Scalo (PZ) - Italy*
17.00-18.30	S04.02-P -12 EVALUATION OF SURFACE SOIL MOISTURE FROM SATELLITE AND GROUND-BASED MEASUREMENTS* *Boguslaw Usowicz, Lublin - Poland*
	S04.02-P -13 EXAMINATION OF THE RELATIONSHIPS BETWEEN SOIL FERTILITY INDICATORS ESTIMATED TO HUNGARIAN ARABLE LANDS AND VEGETATION INDICES MEASURED WITH REMOTE SENSING *Kocsis Mihály, Keszthely - Hungary*
	S04.02-P -14 FIELD MEASUREMENT OF SOIL CARBON FOR ACCOUNTING PURPOSES *Kanika Singh, Sydney - Australia*
	S04.02-P -15 INTEGRAL QUANTIFICATION OF SOIL WATER CONTENT AT THE INTERMEDIATE CATCHMENT SCALE BY GROUND ALBEDO NEUTRON SENSING (GANS) *Carlos Andres Rivera Villarreyes, Potsdam - Germany*
	S04.02-P -16 MAGNETIC RESONANCE IMAGING AND RELAXOMETRY AS TOOLS TO INVESTIGATE WATER DISTRIBUTION IN REPACKED SOILS *Paméla Faure, Champs-Sur-Marne - France*
	S04.02-P -17 MAPPING SPATIO-TEMPORAL RELATIONSHIPS BETWEEN SOIL PROPERTIES AND REMOTE SENSING-DERIVED INFORMATION FOR SCOTLAND. *Laura Poggio, Aberdeen - United Kingdom*
	S04.02-P -18 OPERATIONAL MONITORING OF SOIL MOISTURE FROM SPACE: AN OVERVIEW OF THE TU WIEN PRODUCT SUITE *Angelika Xaver, Vienna - Austria*
	S04.02-P -19 REMOTE SENSING APPLICATION IN EVALUATION OF SOIL CHARACTERISTICS IN DESERT AREAS *Seyed Kazem Alavipanah, Tehran - Iran, Islamic Republic of*
	S04.02-P -20 REMOTE SENSING OBSERVATIONS AND GEOELECTRICAL SURVEYS IN A CRITICAL COASTAL AREA AFFECTED BY SOIL SALINITY *Antonio Satriani, Tito Scalo (PZ) - Italy*
	S04.02-P -21 SOIL ORGANIC MATTER MONITORING ON LOCAL SCALE BY AIRBORNE IMAGING SPECTROSCOPY: A CASE STUDY ON APULIA LAND *Valeria Ancona, Bari - Italy*
	S04.02-P -22 SUB-SURFACE IMAGING USING ELECTRICAL IMPEDANCE TOMOGRAPHY: A MODELLING APPROACH FOR ELECTRICAL IMPEDANCE DATA INTERPRETATION *Robert Hayes, Manchester - United Kingdom*
	S04.02-P -23 THERMAL AND SOLAR-REFLECTIVE REMOTE SENSING METHODS FOR MAPPING SUSTAINABLE FARMING RELEVANT SURFACE SOIL PARAMETERS *Andreas Eisele, Potsdam - Germany*
	S04.02-P -24 THERMOMAP – AREA MAPPING OF SUPERFICIAL GEOTHERMIC RESOURCES BY SOIL AND GROUNDWATER DATA *David Bertermann, Erlangen-Nuremburg - Germany*

FRIDAY 6 JULY 2012 - FIRST FLOOR - Pavilion 10

POSTER SESSIONS

	S04.02-P -25 USE OF LANDSAT 7 IMAGE FOR THE DETERMINATION OF ABANDONED LAND IN BOSNIA AND HERZEGOVINA *Tihomir Predic, Banja Luka - Bosnia and Herzegovina*
	S04.02-P -26 USING RADIOMETRIC TEMPERATURE FOR SOIL AND VEGETATION ENERGY FLUXES ESTIMATION IN MEDITERRANEAN DRYLANDS *Francisco Domingo, Almeria - Spain*
	S04.02-P -27 USING SOIL LANDSCAPE RELATIONS AND REMOTELY SENSED INFORMATION FOR DIGITAL SOIL MAPPING IN SOUTHERN BASILICATA *Michael Maerker, Florence - Italy*
	S04.02-P -28 GIS-BASED LANDSLIDE SUSCEPTIBILITY MAPPING USING ANALYTICAL HIERARCHY PROCESS AND FREQUENCY RATIOIN ZIARAT (IRAN) *Hirad Abghari, Urmia - Iran, Islamic Republic of*
	S08.03-P **PEDOTRANSFER FUNCTIONS IN SOIL HYDROLOGY: STILL A MYTH, OR A PLEASANT REALITY? APPLICATIONS, VALIDATIONS, AND CASE**
	S08.03-P -1 AN APPLICATION OF K-NEAREST CODE AS AN ALTERNATIVE TO CLASS PEDOTRANSFER FUNCTIONS FOR MAPS OF FIELD CAPACITY AND WILTING POINT *Svatopluk Matula, Prague - Czech Republic*
	S08.03-P -2 CONSISTENT PARAMETER CONSTRAINTS FOR SOIL HYDRAULIC FUNCTIONS *Andre Peters, Berlin - Germany*
	S08.03-P -3 USE OF THE NONPARAMETRIC NEAREST NEIGHBOUR APPROACH TO ESTIMATE SOIL WATER CONTENT OF SOILS IN THE HUMID TROPICS *Botula Manyala Yves-dady , Ghent - Belgium*
	S08.03-P -4 ESTIMATION OF SOIL MOISTURE USING RESISTIVITY METHODS *Erika Lueck, Potsdam - Germany*
	S08.03-P -5 ESTIMATION OF SOIL WATER RETENTION OF A STUDY AREA BASED ON DETAILED CATEGORICAL SOIL MAP INFORMATION *András Makó, Keszthely - Hungary*
	S08.03-P -6 EVAPORATION METHODS FOR DETERMINING SOIL HYDRAULIC PROPERTIES: A REINVESTIGATION OF LINEARIZATION ERRORS *Sascha C. Iden, Braunschweig - Germany*
	S08.03-P -7 LINKING PREFERENTIAL SOLUTE TRANSPORT TO SOIL PROPERTIES, SITE FACTORS AND EXPERIMENTAL CONDITION *John Koestel, Uppsala - Sweden*
17.00-18.30	S08.03-P -8 MULTISTEP-OUTFLOW MEASUREMENTS FOR GENERATION AND VALIDATION OF PEDOTRANSFER FUNCTIONS *Heike Puhlmann, Freiburg - Germany*
	S08.03-P -9 UPSCALING SOIL PHYSICAL PROPERTIES FROM SOIL MONITORING DATA *Klaus V.wilpert, Freiburg - Germany*
	S08.03-P -10 PEDOTRANSFER FUNCTIONS FOR ESTIMATING SOIL HYDRAULIC PROPERTIES. STATUS OF THE RESEARCH CARRIED OUT IN PORTUGAL *Tiago Ramos, Lisbon - Portugal*
	S08.03-P -11 PEDOTRANSFER FUNCTIONS FOR MACROPORE FLOW IN DUTCH CLAY SOILS *Aaldrik Tiktak, Bilthoven - Netherlands*
	S08.03-P -12 PREDICTION ACCURACY AND UNCERTAINTY OF PEDOTRANSFER FUNCTIONS AND IMPACT ON SOIL WATER TRANSPORT MODELLING *Heike Puhlmann, Freiburg - Germany*
	S08.03-P -13 RESEARCH ON THE PHYSICAL PROCESSES INVOLVED IN AIR REGIME IN SOIL *Voicu Petre, Bucharest - Romania*
	S08.03-P -14 SITE-SPECIFIC OPTIMIZATION OF PEDOTRANSFER FUNCTION RESULTS USING TEXTURAL AND GEOCHEMICAL DATA *Heidi Lissner, Jena - Germany*
	S08.03-P -15 THE INFLUENCE OF LAND-USE AND SOIL PARENT MATERIAL ON THE ESTIMATION OF SOIL WATER RETENTION *Attila Nemes, College Park - United States*
	S08.03-P -16 TRANSPOSABILITY AND EVALUATION OF PEDOTRANSFER FUNCTIONS FOR PREDICTING PROPERTIES OF WATER RETENTION ON SOILS OF LOW CHELIFF. ALGERIA *Sami Touil, Chlef - Algeria*
	S08.03-P -17 UPDATES AND REVISIONS TO THE HYPRES DATABASE *Allan Lilly, Aberdeen - United Kingdom*
	S08.03-P -18 ESTIMATION OF SATURATED HYDRAULIC CONDUCTIVITY AND INVERSE OF MACROSCOPIC CAPILLARY LENGTH PARAMETER USING PTFS *Ghorbani Dashtaki Shoja, Shahrekord - Iran, Islamic Republic of*
	S08.03-P -19 PEDOTRANSFER FUNCTIONS FOR ESTIMATING ATTERBERG LIMITS IN SEMI-ARID AREA *Abbas Ahmadi, Tabriz - Iran, Islamic Republic of*

FRIDAY 6 JULY 2012 - FIRST FLOOR - Pavilion 10

POSTER SESSIONS

17.00-18.30	**S11.03-P** **ECOSYSTEM SERVICES AND FUNCTIONS DRIVEN BY THE DIVERSITY OF SOIL BIOTA**
	S11.03-P -1 A 25 YEARS BIOLOGICAL STUDY OF VINEYARD SOILS – THE VITIECOBIOSOL PROGRAM IN CHAMPAGNE *Raphaël Marichal, Paimpont - France*
	S11.03-P -2 ARE TOPSOIL PARAMETERS RELEVANT INDICATORS OF ALLUVIAL SOIL EVOLUTION? *Hallaire Vincent, Rennes - France*
	S11.03-P -3 ASSESSMENT OF SOIL BIOLOGICAL QUALITY INDEX IN BURNED FOREST ECOSYSTEMS *Chiara Lisa, Firenze - Italy*
	S11.03-P -4 CAN MODIFICATION OF CULTURAL PRACTICES INFLUENCE SOIL MICROBIAL COMMUNITY RESPONSE DURING A DROUGHT EVENT? *Aurore Kaisermann, Paris - France*
	S11.03-P -5 CILIATE COMMUNITIES AS A TOOL TO ASSESS SOIL QUALITY IN AGROECOSYSTEM: INVESTIGATION ON AGRICULTURAL SOILS UNDER ORGANIC FARMING *Daizy Bharti, Camerino - Italy*
	S11.03-P -6 CONSERVATIVE VS TRADITIONAL AGRICULTURE: HOW DO THEY AFFECT SOIL FAUNA AND ECOSYSTEM SERVICES? *Federica D. Conti, Parma - Italy*
	S11.03-P -7 DETECTION OF PRION PROTEIN ASSOCIATED WITH CERVID CHRONIC WASTING DISEASE IN ENVIRONMENTAL SAMPLES *Chad Johnson, Madison - United States*
	S11.03-P -8 DO MULTITROPHIC INTERACTIONS MATTER FOR TREE NUTRITION? A LABORATORY STUDY INVOLVING BACTERIA, BACTERIAL-FEEDING NEMATODES AND ECTOMYCORRHIZAL FUNGI *Claude Plassard, Montpellier - France*
	S11.03-P -9 DOES REPLACING FALLOW BY A COVER CROP AFFECT BIOGEOCHEMICAL PROPERTIES? *Chiquinquirá Hontoria , Madrid - Spain*
	S11.03-P -10 EARTHWORM COMMUNITIES UNDER PASTURES: EFFECTS OF PLANT DIVERSITY MANIPULATION AND GRAZING MANAGEMENT *Martin Potthoff, Göttingen - Germany*
	S11.03-P -11 EFFECT OF PHYSICAL AND BIOLOGICAL FACTORS ON METHANOTROPHIC ACTIVITY OF SOIL AND OTHER POROUS MATERIALS *Witold Stepniewski, Lublin - Poland*
	S11.03-P -12 EFFECT OF REDUCED SOIL DISTURBANCE ON SOIL PHYSICAL QUALITY RELATED TO EARTHWORM PARAMETERS *Stephen Crittenden, Wageningen - Netherlands*
	S11.03-P -13 EFFECTS OF LONG-TERM ORGANIC AND MINERAL FERTILISATION ON MICROBIAL PROPERTIES IN A SANDY SUBSOIL *André Sradnick, Witzenhausen - Germany*
	S11.03-P -14 HOME-FIELD ADVANTAGE EFFECT UNDER CONTROL OF DIFFERENT DECOMPOSER GROUP BETWEEN THREE SUCCESSIONAL STAGES *Gabriel Perez, Mont Saint Aignan - France*
	S11.03-P -15 IMPACT OF SOIL MANAGEMENT ON EARTHWORM DIVERSITY ACCORDING TO DIFFERENTIAL PLOWING AND PLANT RESIDUE INCORPORATION *Aboulkacem Lemtiri,Gembloux - Belgium*
	S11.03-P -16 INTERACTIVE EFFECTS OF EARTHWORMS AND VEGETATION ON C AND N GAS FLUXES FROM RIPARIAN AREAS IN SOUTHERN QUEBEC *Maria Kernecker, Montreal - Canada*
	S11.03-P -17 IS FUNCTIONAL BIODIVERSITY RELATED TO PROFILE DEVELOPMENT? *Sara Marinari, Viterbo - Italy*
	S11.03-P -18 MICROBIAL ABUNDANCE AND ACTIVITY AS A RESPONSE TO SOIL COVERING AND MINERAL NITROGEN FERTILIZATION *Ivana Rajnovic, Zagreb - Croatia*
	S11.03-P -19 PHYTASES AND ITS APPLICATION IN AGGRICULTURE *Mohammad Reza Sarikhani, Tabriz - Iran, Islamic Republic of*
	S11.03-P -20 SCARABAEID GRUBS; POTENTIAL SOURCE OF ATMOSPHERIC NITROUS OXIDE IN TROPICAL SOILS *Muhammad Zeeshan Majeed, Montpellier - France*
	S11.03-P -21 SEED GERMINATION DEPENDS ON EARTHWORM SPECIES AND SOIL TYPES *Julia Clause, Mont Saint Aignan - France*
	S11.03-P -22 SHORT-TERM CHANGES IN METABOLIC DIVERSITY OF SOIL BACTERIAL COMMUNITY AS INFLUENCED BY ORGANIC AMENDMENTS AND FERTILIZERS APPLICATION *Ivana Cavoski, Valenzano - Italy*
	S11.03-P -23 SOIL BIODIVERSITY CHARACTERIZATION ALONG A GLACIAL CHRONOSEQUENCE (PRÉ DE BAR GLACIER, NW ITALY) *Ciro Gardi, Ispra (VA) - Italy*

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POSTER SESSIONS

	S11.03-P -24 SOIL ORGANIC MATTER QUALITY INFLUENCES FUNCTIONAL AND STRUCTURAL MICROBIAL DIVERSITY OF A LONG-TERM FERTILIZATION EXPERIMENT *Caterina Giacometti, Bologna - Italy*
	S11.03-P -25 SOIL QUALITY IN LONG-TERM ORGANICALLY MANAGED VINEYARDS: ANALYSIS OF CILIATED PROTOZOA AND MICROARTHROPOD COMMUNITY STRUCTURES *Antonietta La Terza, Camerino - Italy*
	S11.03-P -26 THE SOFIA PROJECT: INCLUDING SOIL BIODIVERSITY SERVICES IN AGROECOSYSTEMS' MANAGEMENT SCHEMES *Sylvie Recous, Reims - France*
	S13.01-P **SOIL MEMORY: ARCHAEOLOGICAL AND NATURAL HERITAGE PRESERVED IN SOILS**
	S13.01-P -1 CHEMICAL ANALYSES OF AN IRON AGE FLOOR DEPOSIT AT ROTZO (VICENZA, ITALY) *Diego Pizzeghello, Legnaro (Padova) - Italy*
	S13.01-P -2 CONSERVING AND RESTORING THE SOIL MONOLITH COLLECTION OF THE BELGIAN SOIL MAP: HISTORY, CHALLENGES, NEW DEVELOPMENTS AND EDUCATION POTENTIAL *Karen Vancampenhout, Leuven - Belgium*
	S13.01-P -3 FROM COMPLEX VISION TO SIMPLE ACTION: WHERE IS THE GAP BETWEEN SOIL BIODIVERSITY, SCIENCE AND POLICY? *Elena Havlicek, Bern - Switzerland*
	S13.01-P -4 GEOARCHAEOLOGICAL EVIDENCE OF OCCUPATION AND HUMAN MODIFICATION OF THE ENVIRONMENT IN THE NEOLITHIC SITE OF MONTE DOS REMEDIOS (NW SPAIN) *Cruz Ferro, Santiago de Compostela - Spain*
	S13.01-P -5 HISTORICAL SOIL LEGACIES IN THE CARPATHIAN BASIN *György Füleky, Gödöllo - Hungary*
	S13.01-P -6 LATE PLEISTOCENE-HOLOCENE PALEOENVIRONMENT RECONSTRUCTION AND EARLY PEOPLING IN SONORA DESERT, NE MEXICO: A PALEOPEDOLOGICAL APPROACH *Tamara Cruz Y Cruz, Mexico City - Mexico*
	S13.01-P -7 LONG TERM SOIL EROSION ANALYSIS ON A TERRACED SYSTEM WITH THE SUPPORT OF ARCHAEOLOGICAL DATA IN THE AREA OF AKSUM (ETHIOPIA) *Rossano Ciampalini, Montpellier - France*
	S13.01-P -8 OUR SOIL MAP AS CULTURAL HERITAGE: WHAT OF THE SOIL MAP OF BELGIUM SURVEY SHOULD BE PRESERVED AND WHAT IS BEING LOST ? *Xavier Legrain, Gembloux - Belgium*
17.00-18.30	S13.01-P -9 PALEOSOLS OF ALLUVIAL SEQUENCES IN SOUTHERN MEXICO AS EVIDENCES OF PALEOENVIRONMENTAL CHANGE AND HUMAN OCCUPATION *Berenice Solis Castillo, - Mexico*
	S13.01-P -10 POLAND'S FIRST SOIL MUSEUM – PROJECT INFORMATION *Ewa Blonska, Krakow - Poland*
	S13.01-P -11 QUANTIFICATION OF CARBON SURPLUS AND C/N RATIO IN CHARCOAL-AFFECTED SOILS UNDER ANCIENT MOUND KILNS IN CULTIVATED AREAS OF WALLONIA (BELGIUM) *Joseph E. Dufey, Louvain-la-Neuve - Belgium*
	S13.01-P -12 ROCK MAGNETISM PROPERTIES IN PALEOSOLS AS INDICATORS OF PRE-HISPANIC HUMAN ACTIVITIES IN THREE ARCHAEOLOGICAL SITES IN MEXICO *Hermenegildo Barceinas, Ciudad de México - Mexico*
	S13.01-P -13 SOIL CHEMICAL ANALYSES AS INTERPRETIVE TOOLS FOR ANCIENT HUMAN ACTIVITIES IN A MEDIEVAL SETTLEMENT IN CENTRAL ITALY: PRELIMINARY RESULTS *M. Cristina Moscatelli, Viterbo - Italy*
	S13.01-P -14 SOIL CHEMICAL LEGACIES OF 17TH AND 18TH C WHISKY PRODUCTION IN NORTH-EAST SCOTLAND *Clare Wilson, Stirling - United Kingdom*
	S13.01-P -15 SOIL QUALITY AND SCIENCE OF SUSTAINABILITY:MAKE RESEARCH INTO PRACTICE *Stefano Grego, Viterbo - Italy*
	S13.01-P -16 SOILS AND ARCHAEOLOGY. THE COSTANCIACUS PROJECT IN THE FRAME OF THE VENICE LAGOON EVOLUTION, ITALY *Claudio Bini, Venice - Italy*
	S13.01-P -17 SOILS IN URBOSEDIMENTS OF THE ANCIENT CITIES OF EUROPEAN RUSSIA *Andrey Dolgikh, Moscow - Russian Federation*
	S13.01-P -18 THE DYNAMICS OF SOLONETZIC SOILS ASSOCIATIONS PROPERTIES AFTER 30 YEARS OF RECLAMATION *Valerie Kalinitchenko, Persianovka - Russian Federation*
	S13.01-P -19 THE IMPACT OF CINNABAR (HGS) MINING IN SOILS AND ANCIENT WORKERS IN TWO ARCHAEOLOGICAL SITES IN MEXICO *Gilberto Hernández-Silva, Querétaro - Mexico*
	S13.01-P -20 THE ECONOMICS OF SOIL EROSION CONTROL AND INCREASE VEGETATION *Kaveh Khaksar, Karaj - Iran, Islamic Republic of*

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POSTER SESSIONS

17.00-18.30	**S13.03-P** **SOIL POICY AND SOIL INFORMATION IN A CHANGING WORLD**
	S13.03-P -1 THE DEVELOPMENT OF AN INTEGRATED DATABASE OF SOIL RESOURCES OF RUSSIA, UKRAINE AND BELORUSSIA *Pavel Krasilnikov, Petrozavodsk - Russian Federation*
	S13.03-P -2 A METHODOLOGY TO TAKE INTO ACCOUNT SOIL QUALITY IN URBAN PLANNING: CASE STUDY OF TWO DISTRICTS IN PROVENCE, SOUTHERN FRANCE *Catherine Keller, Aix-en-Provence - France*
	S13.03-P -3 ACHIEVING EFFECTIVE LONG-TERM SOIL POLICIES IN A SHORT-TEM WORLD *Johan Bouma, Wageningen - Netherlands*
	S13.03-P -4 DELIMITATION OF AREAS WITH NATURAL HANDICAPS IN HUNGARY ACCORDING TO COMMON EUROPEAN BIOPHYSICAL CRITERIA *Pásztor László, Budapest - Hungary*
	S13.03-P -5 RAISING AWARENESS ABOUT SOIL IN AFRICA: A HARMONIZED SOIL MAP AT THE CONTINENTAL SCALE *Olivier Dewitte, Ispra - Italy*
	S13.03-P -6 SOIL DATA AVAILABILITY TO CLASSIFY AGRICULTURAL LAND TO PRODUCTIVITY CLASSES *Sid Theocharopoulos, Athens - Greece*
	S13.03-P -7 SOIL MANAGEMENT AND POLICY: A SCOTTISH PERSPECTIVE *Willie Towers, Aberdeen - United Kingdom*
	S13.03-P -8 SPATIAL SOIL INFORMATION SYSTEMS AT RISSAC HAS AND THE RESULTS OF TESTING THEIR INSPIRE COMPATIBILITY *László Pásztor, Budapest - Hungary*
	S13.03-P -9 STRATEGY OF SOIL RESOURCES USE IN THE NATIONAL AND GLOBAL CONTEXT *Aldis Karklins, Jelgava - Latvia*
	S13.03-P -10 SUSTAINABLE AGRICULTURE AND SOIL CONSERVATION: STATUS AND FUTURE PERSPECTIVES *Luca Montanarella, Ispra - Italy*
	S13.03-P -11 TEA BAG INDEX FOR DECOMPOSITION: A CROWDSOURCING APPROACH TO OBTAIN PROCESS RATES AT THE SCALE OF THE GLOBAL SOIL MAP *Joost Keuskamp, Utrecht - Netherlands*
	S13.03-P -12 THE DATASETS OF THE EUROPEAN SOIL DATA CENTRE IN AN INSPIRE CONTEXT *Marc Van Liedekerke, Ispra (VA) - Italy*
	S13.03-P -13 TOWARDS A HARMONIZED VIEW OF THE STATE OF SOIL ACROSS EUROPE *Arwyn Jones, Ispra - Italy*
	S13.04-P **INTERNATIONAL CRITICAL ZONE OBSERVATORY RESEARCH FOCUSING ON SOIL**
	S13.04-P -1 SPATIAL AND TEMPORAL TRENDS IN SOIL SOLUTE CHEMISTRY AND STABLE ISOTOPE COMPOSITION AT A CRITICAL ZONE OBSERVATORY (CZECH REPUBLIC) *Martin Novak, Prague - Czech Republic*
	S13.04-P -2 ATMOSPHERIC DEPOSITION OF INORGANIC ECOTOXINS IN THE CZECH REPUBLIC: COMPARISON OF THE LYSINA CRITICAL ZONE OBSERVATORY AREA WITH THE SATELLITE SITE U DVOU LOUCEK *Martin Novak, Prague - Czech Republic*
	S13.04-P -3 CARBOZALF-D – AN INTERDISCIPLINARY FIELD EXPERIMENT ON CARBON DYNAMICS *Michael Sommer, Muencheberg - Germany*
	S13.04-P -4 CHARACTERIZATION OF THE EUROPEAN CRITICAL ZONE OBSERVATORIES AT SOIL PROFILE SCALE – SOIL PHYSICAL STRUCTURE *Milena Kercheva, Sofia - Bulgaria*
	S13.04-P -5 FATE OF ANTROPOGENIC PB STORED IN CENTRAL EUROPEAN FOREST SOILS DURING THE PEAK POLLUTION PERIOD *Martin Novak, Prague - Czech Republic*
	S13.04-P -6 HYDROCHEMICAL DYNAMICS IN RECHARGE-DISCHARGE TRANSECTS AT THE CZO KINDLA *Lars Lundin, Uppsala - Sweden*
	S13.04-P -7 MODELING OF SOIL TRANSFORMATIONS IN THE CZECH CRITICAL ZONE OBSERVATORY *Pavel Kram, Prague - Czech Republic*
	S13.04-P -8 MODELING SOIL ORGANIC CARBON ASSESSMENT FOR THE KOILIARIS CZO BY USING A GEOSTATISTICAL APPROACH *Ece Aksoy, Ispra - Italy*
	S13.04-P -9 PEDOGENIC CHARACTERIZATION OF SOILS AT KOILIARIS CZO ALONG A CLIMATIC AND LITHOLOGICAL GRADIENT *Daniel Moraetis, Chania - Greece*
	S13.04-P -10 RARE EARTH ELEMENTS AS TRACERS OF CHEMICAL TRANSFER PROCESSES IN TROPICAL RAIN FOREST SOILS IN FRENCH GUIANA *Anne-Lise Floch, Besançon - France*
	S13.04-P -11 RESPONSE OF SOIL PROPERTIES TO DIFFERENT FARMING PRACTICES – CASE STUDIES IN ICELAND AND AUSTRIA *Taru Lehtinen, Vienna - Austria*
	S13.04-P -12 SURFACE AND SUB-SURFACE HYDROLOGY AT THE DAMMA GLACIER CRITICAL ZONE OBSERVATORY *Florian Kobierska, Davos Dorf - Switzerland*
	S13.04-P -13 UNDERSTANDING THE HYDROLOGICAL PROCESSES IN THE WATERSHED OF DAMMA GLACIER, SWITZERLAND, USING SWAT *Maria Andrianaki, Zürich - Switzerland*
	S13.04-P -14 USEFULNESS OF STABLE ISOTOPES IN CRITICAL ZONE STUDIES: OVERVIEW OF RESULTS FROM THE STRESSED ECOSYSTEMS OF CENTRAL EUROPE *Martin Novak, Prague - Czech Republic*

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POSTER SESSIONS

	S04.03-P **SOIL MICRO-HETEROGENEITY: NOVEL MEASUREMENT TECHNIQUES, MODELLING AND MACROSCOPIC IMPACTS**
	S04.03-P -1 APPLYING X-RAY MICROTOMOGRAPHY AND FLUORESCENT LABELS TO TRACE NANOPARTICLE TRANSPORT AND FATE WITHIN MICROHETEROGENEOUS SOILS AND AGGREGATES *Jonathan Bridge, Sheffield - United Kingdom*
	S04.03-P -2 ASSUMPTIONS FOR A POLISH STANDARD OF THE PSD DETERMINATION OF SOILS WITH THE LASER DIFFRACTION METHOD *Andrzej Bieganowski, Lublin - Poland*
	S04.03-P -3 EVALUATION OF SOIL GRANULOMETRY INFLUENCE ON CARBON AND HUMIFICATION DEGREE OF ORGANIC MATTER DETERMINATION *Edilene Cristina Ferreira, São Carlos - Brazil*
	S04.03-P -4 HIGH-RESOLUTION µ-CT AND NANO-CT FOR 3D ANALYSIS OF SOILS AND MINERALS *Gerhard Zacher, Wunstorf - Germany*
	S04.03-P -5 PHOTONIC TECHNIQUES FOR MEASURING SOIL ATTRIBUTES AIMING LOW CARBON AGRICULTURE *Debora Marcondes Bastos Pereira Milori, Sao Carlos - Brazil*
	S04.03-P -6 PROFILING TRACERS IN SOILS USING X-RAY COMPUTED TOMOGRAPHY *Kathryn Grayling, Nottingham - United Kingdom*
	S04.03-P -7 SEQUENTIAL MODELING OF SANDY/UNSTRUCTURED SOIL MICROSTRUCTURE *Roman Vasiliev, Vladimir - Russian Federation*
	S04.03-P -8 SOIL "PORE SPECTRUM" BY 3D MATHEMATICAL MORPHOLOGY: COMPARISON OF THREE DIFFERENT PROCEDURES *Marcella Matrecano, Ercolano - Italy*
	S07.06-P **MECHANISMS OF C STABILIZATION AND SEQUESTRATION IN SOILS**
	S07.06-P -1 ADDING CLAY TO SANDS TO INCREASE CARBON STORAGE *Richard Bell, Murdoch - Australia*
	S07.06-P -2 AN OPTIMIZED METHOD FOR THE FRACTIONATION OF SOIL ORGANIC MATTER INTO POOLS NOT PROTECTED AND PROTECTED FROM DECOMPOSITION BY PHYSICAL AND CHEMICAL MECHANISMS *César Plaza, Madrid - Spain*
	S07.06-P -3 ASSESSING NATURAL OR ANTHROPOGENIC IMPACT ON FOREST MEDITERRANEAN SOILS BY HUMIC MATTER CHARACTERIZATION *Alessandra Trinchera, Rome - Italy*
17.00-18.30	S07.06-P -4 CANOPY GAPS IN A MIXED BEECH STAND OF NORTHERN IRAN: EFFECT ON SOIL C STOCK *Yahya Kooch, Noor - Iran, Islamic Republic of*
	S07.06-P -5 CARBON ACCUMULATION AND TURNOVER AT ALLEY-CROPPING SYSTEMS PRESENTED BY BLACK LOCUST, POPLAR AND MAIZE IN BRANDENBURG, EASTERN GERMANY *Tetiana Medinski, Cottbus - Germany*
	S07.06-P -6 CARBON RETENTION CAPACITY AND QUALITY OF ORGANIC MATTER IN SILT AND CLAY FRACTIONS OF BRAZILIAN OXISOLS UNDER DIFFERENT SOIL MANAGEMENT SYSTEMS *Deborah Pinheiro Dick, Porto Alegre - Brazil*
	S07.06-P -7 DEPTH DISTRIBUTION OF SOM IN SOILS OF VOLCANIC ORIGIN OF TENERIFE (CANARY ISLANDS, SPAIN) *Cecilia Maria Armas-Herrera, La Laguna - Spain*
	S07.06-P -8 EFFECT OF MANAGEMENT PRACTICES ON PHYSICAL-CHEMICAL STABILIZATION MECHANISMS OF ORGANIC CARBON IN SEMIARID SOILS *Noelia Garcia Franco, Murcia - Spain*
	S07.06-P -9 EFFECT OF PERMAFROST ON THE FORMATION OF ORGANIC CARBON POOLS, THEIR PHYSICAL-CHEMICAL PROPERTIES AND EROSION RATES IN THE EASTERN SWISS ALPS *Barbara Pichler, Zurich - Switzerland*
	S07.06-P -30 THE ROLE OF MINERAL-BOUND FUNGAL LACCASES IN SYNTHESIS AND STABILIZATION OF HUMIC ACIDS IN SOILS *Anna Zavarzina, Moscow - Russian Federation*
	S07.06-P -31 VARIATIONS IN COMPOSITION AND QUALITY OF SOIL ORGANIC MATTER WITH RESPECT TO ENVIRONMENTAL CONDITIONS *Tünde Nyilas, Szeged - Hungary*
	S07.06-P -12 EFFECTS OF PODZOLISATION INTENSITY AND ORGANIC MATTER STABILISATION ON SURFACE PROPERTIES OF B HORIZONS *Eleonora Bonifacio, Grugliasco - Italy*
	S07.06-P -13 HOW MANY C IS "RECALCITRANT" THROUGHOUT A PEAT BOG PROFILE? *Claudio Zaccone, Foggia - Italy*
	S07.06-P -14 HUMIC SUBSTANCES AS INDICATORS OF SOIL CARBON STABILIZATION IN ALFISOLS DEVELOPED UNDER MEDITERRANEAN CLIMATE *Giuseppe Natale Mezzapesa, Bari - Italy*
	S07.06-P -15 INTERACTION OF SOIL RESPIRATION AND AGGREGATE SIZE DISTRIBUTION RESULTING FROM DIFFERENT TILLAGE PRACTICES IN A SWEDISH CLAY SOIL *Veera Kainiemi, Uppsala - Sweden*

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17.00-18.30	S07.06-P -16 ISOLATING THE EFFECT OF MINERAL-ORGANIC INTERACTIONS ON THE RESPIRATION OF RECALCITRANT ORGANIC SOIL CARBON *Lacey Pyle, Austin - United States*
	S07.06-P -17 LAND USE AND AMENDMENT EFFECTS ON SOIL AGGREGATION AND ORGANIC CARBON IN ACID SOILS OF SW SPAIN *Chiquinquirá Hontoria, Madrid - Spain*
	S07.06-P -18 OPTIMISING DENSITY CUT-OFF AND DISPERSION FOR DENSITY FRACTIONATION OF SOIL ORGANIC MATTER *Chiara Cerli, Amsterdam - Netherlands*
	S07.06-P -19 ORGANIC MATTER CONTENT AND HUMIFICATION RATE IN THE SOILS OF FOREST LANDS OF DIFFERENT AGES IN LATVIA *Imants Kukuls, Riga - Latvia*
	S07.06-P -20 RELEASE AND TRANSPORT OF MOBILE PARTICULATE ORGANIC SUBSTANCES STUDIED BY TWO-LAYER COLUMN EXPERIMENTS *Katharina Reichel, Jena - Germany*
	S07.06-P -21 RESIDUE MANAGEMENT OF SUGARCANE AND ITS EFFECT ON SOIL CARBON SEQUESTRATION ESTIMATED BY CENTURY AND CQESTR MODELS IN NORTHEASTERN BRAZIL *Luiz Leite, Teresina - Brazil*
	S07.06-P -22 SOIL CARBON AND LANDSCAPE FUNCTION: THE EFFECT OF GRAZING ON SOIL PROCESSES AND PROPERTIES *Helen King, Canberra - Australia*
	S07.06-P -23 SOIL CARBON DISTRIBUTION AND STABILITY IN SEMI-ARID, SUCCULENT-THICKET ECOSYSTEM FROM SOUTH AFRICA *Ailsa Hardie, Stellenbosch - South Africa*
	S07.06-P -24 SOIL CARBON DYNAMICS AFTER PRIMARY FOREST CLEARING WITH CHOP AND MULCH METHOD IN FRENCH GUIANA *Kenji Fujisaki, Montpellier - France*
	S07.06-P -25 SOIL CARBON POOLS AND THEIR DYNAMICS ALONG A SOIL BIOSEQUENCE DEVELOPED ON CARBONATE-RICH SANDS *Gloria Falsone, Bologna - Italy*
	S07.06-P -26 SOIL ORGANIC MATTER (SOM) DENSITY FRACTIONATION OF ANDIC HORIZONS FROM THE SOUTH OF ITALY *Simona Vingiani, Portici (NA) - Italy*
	S07.06-P -27 SOIL ORGANIC MATTER AS AFFECTED BY PINUS AFFORESTATION IN SOUTH BRAZIL *Deborah Pinheiro Dick, Porto Alegre - Brazil*
	S07.06-P -28 SPATIAL DISTRIBUTION AND STABILIZATION OF ORGANIC CARBON WITHIN MACROAGGREGATES FROM ARABLE LUVISOLS UNDER DIFFERENT SOIL MANAGEMENT *Anneka Mordhorst, Kiel - Germany*
	S07.06-P -29 THE IMPORTANCE OF ECTOMYCORRHIZAL FUNGI FOR CARBON SEQUESTRATION IN FOREST SOIL *Håkan Wallander, Lund - Sweden*
	S07.06-P -30 EFFECT OF SOIL PARTICLES ON ORGANIC CARBON CONTENT OF THE LOESS-DERIVED SOILS OF GOLESTAN PROVINCE, NORTHERN IRAN *Farhad Khormali, Gorgan - Iran, Islamic Republic of*
	S07.06-P -31 EFFECT OF TOPOGRAPHY ON LOCAL-SCALE SPATIAL VARIABILITY OF SOIL ORGANIC CARBON (SOC) IN STEEP SLOPES IN TOSHAN REGION LOCATED IN GOLESTAN PROVINCE *Farhad Khormali, Gorgan - Iran, Islamic Republic of*
	S07.07-P **LONG-TERM EFFECTS OF AGRONOMIC PRACTICES ON SOIL ORGANIC MATTER AND CROP PRODUCTIVITY**
	S07.07-P -1 APPLICATION OF ROTHC CARBON MODEL OVER 50 YEARS UNDER A ROTATION TOMATO-MAIZE ON A SILTY-LOAM SOIL *Claudio Baffi, Piacenza - Italy*
	S07.07-P -2 ASSESSMENT OF SOIL ORGANIC CARBON STOCKS IN SERBIA *Maja Manojlovic, Novi Sad - Serbia*
	S07.07-P -3 ASSESSMENT OF SOIL ORGANIC MATTER CHANGES FOR FARM FIELDS *Uwe Franko, Halle - Germany*
	S07.07-P -4 AVAILABLE TOOLS FOR THE ASSESSMENT OF SOM REPRODUCTION ON ARABLE FIELDS *Uwe Franko, Halle - Germany*
	S07.07-P -5 CAN CURRENT STICS MODEL BE AN EFFICIENT TOOL TO VALIDATE NITROGEN DYNAMIC OF A LONG TERM EXPERIMENT? *Ahmed Karim Dhaouadi, Grignon - France*
	S07.07-P -6 CARBON (C) AND NITROGEN (N) CONTENT UNDER SEVERAL YEARS OLD EUCALYPTUS PLANTS AND LAND USE TREATED SOILS *Ibrahim Ortas, Balcalı - Adana ~ Turkey*
	S07.07-P -7 CEREAL AND FORAGE CROPPING IN THE LOMBARDY PLAIN. YIELD AND EVOLUTION OF SOIL FERTILITY IN THE 24-YR OF TRIAL *Lamberto Borrelli, Lodi - Italy*

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17.00-18.30	S07.07-P -8 CHANGES IN SOC AND NITROGEN AS RELATED TO CROPPING AND SOIL EROSION IN A SMALL SCALE AGRICULTURAL LANDSCAPE *Jianhui Zhang, Chengdu - China*
	S07.07-P -9 CONTRIBUTION OF SEDIMENTARY AND FRESH ORGANIC MATTER TO SOIL STRUCTURAL STABILITY: INSIGHT FROM A FIELD STUDY IN SLOVENIAN ORCHARD DEVELOPED ON MARLS *Pierre Curmi, Dijon - France*
	S07.07-P -10 DYNAMICS OF SOIL CARBON IN A LONG TERM CROP ROTATION EXPERIMENT IN APULIA, ITALY *Roberta Farina, Rome - Italy*
	S07.07-P -11 EFFECT OF MANURE MANAGEMENT SYSTEMS ON SOIL ORGANIC CARBON (SOM) *Lamberto Borrelli, Lodi - Italy*
	S07.07-P -12 EFFECTS OF OLIVE GROVE MANAGEMENT ON CARBON SEQUESTRATION AND CHEMICAL AND MICROBIOLOGICAL SOIL PARAMETERS IN SOUTH OF ITALY *Adriano Sofo, Potenza - Italy*
	S07.07-P -13 EVALUATION OF SOME CROP SPECIES FOR REMEDATION OF LEAD (PB) IN CONTAMINATED SOILS UNDER GREENHOUSE CONDITION *Afshin Mozafari, Tehran - Iran, Islamic Republic of*
	S07.07-P -14 EVALUATION OF THE EFFECT OF FERTILIZATION IN P FRACTIONS AND THEIR RELATION WITH THE ORGANIC MATTER IN AN ANDISOL *Gabriela Velasquez, Temuco - Chile*
	S07.07-P -15 EXTENDED HUMUS BALANCE METHOD OF NEYROUD – DESCRIPTION AND VALIDATION *Hans-Rudolf Oberholzer, Zürich - Switzerland*
	S07.07-P -16 IMPACT OF PREVIOUS FERTILIZER INPUT HISTORY ON APPARENT NITROGEN RECOVERY FROM RECENTLY APPLIED SOLID CATTLE MANURE TO GRASSLANDS *Muhammad Imtiaz Rashid, Wageningen - Netherlands*
	S07.07-P -17 INFLUENCE OF LONG-TERM FERTILIZATION AND CROPING SYSTEM ON SOIL PROPERTIES UNDER CORN PRODUCTION *Stanko Milic, Novi Sad - Serbia*
	S07.07-P -18 INFLUENCE OF MANAGEMENT PRACTICES ON SOIL STRUCTURE AND ORGANIC CARBON IN A SEMIARID AREA OF SOUTH EAST SPAIN *Maria Martinez-Mena, Murcia - Spain*
	S07.07-P -19 INFLUENCE OF PERIODICAL APPLICATION OF DIFFERENT ORGANIC MATTERS OVER TEN YEARS ON SOIL FERTILITY AT A CALCAREOUS VINEYARD SOIL IN FRANCONIA/GERMANY *Arnold Schwab, Veitshoechheim - Germany*
	S07.07-P -20 LONG TERM SIMULATION OF WHEAT YIELD AND SOIL ORGANIC CARBON CONTENT WITH DIFFERENT CROP RESIDUE MANAGEMENT *Michele Rinaldi, Bari - Italy*
	S07.07-P -21 LONG-TERM EFFECTS OF AGRONOMICAL PRACTICES ON SOIL HYDRAULIC PROPERTIES *Mirko Castellini, Bari - Italy*
	S07.07-P -22 TOPSOIL CARBON CONTENT IN FINNISH CULTIVATED LAND PREDICTED BY SOIL TYPE, CULTIVATION HISTORY AND REGION *Jaakko Heikkinen, Jokioinen - Finland*
	S07.07-P -23 LONG-TERM TEMPORAL VARIATIONS IN SOIL ORGANIC MATTER UNDER DIFFERENT TILLAGE INTENSITIES *Alessandra Lagomarsino, Firenze - Italy*
	S07.07-P -24 METHODOLOGY OF THE GERMAN STANDARD METHOD FOR HUMUS BALANCING BY VDLUFA *Christopher Brock, Giessen - Germany*
	S07.07-P -25 N AND C STOCKS IN SOILS IS MODIFIED BY CROPPING SYSTEMS MANAGEMENT: LONG TERM FIELD AND MODELLING APPROACHES *Dario Sacco, Grugliasco - Italy*
	S07.07-P -26 NITROGEN CONTRIBUTION FROM WINTER CROPS TO SUBSEQUENT MAIZE CROP USING NITROGEN - 15 *Edson Luiz Mendes Coutinho, Jaboticabal - Brazil*
	S07.07-P -27 NITROGEN FERTILIZATION MANAGEMENT AND NITROGEN (15N) UTILIZATION BY MAIZE CROP UNDER NO-TILLAGE WITH DIFFERENT WINTER CROPS *AndrÉ Mendes Coutinho Neto, Jaboticabal - Brazil*
	S07.07-P -28 NO TILLAGE INCREASED SOIL ORGANIC CARBON AND BIOLOGICAL ACTIVITY IN A MEDITERRANEAN VERTISOL IN APULIA, ITALY *Flavio Fornasier, Rome - Italy*
	S07.07-P -29 TRENDS IN SOIL ORGANIC CARBON CONCENTRATION AND CROP YIELDS DEPENDING ON LONG-TERM FERTILISATION *Alar Astover, Tartu - Estonia*
	S07.07-P -30 REFINING THE LOSS ON IGNITION METHOD: THE EFFECT OF SAMPLE WEIGHT *Martine Hoogsteen, Wageningen - Netherlands*
	S07.07-P -31 SOIL CARBON STOCKS UNDER OIL PALM PLANTATIONS IN BAHIA STATE, BRAZIL *Leidivan Almeida Frazão, Piracicaba - Brazil*

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POSTER SESSIONS

17.00-18.30	S07.07-P -32 SOIL ORGANIC CARBON BALANCE IN A BIO-ENERGY CROP *Gonzalo Berhongaray, Antwerp - Belgium*
	S07.07-P -33 SOIL ORGANIC CARBON STOCK AND SOIL STRUCTURE OF CALCIC CHERNOZEM IN THE SEMIARID ENVIRONMENT OF THE PROVINCE OF VOJVODINA *Vladimir Ciric, Novi Sad - Serbia*
	S07.07-P -34 SOIL ORGANIC MATTER FRACTIONS UNDER LONG-TERM CONSERVATION TILLAGE IN RAINFED ARAGON (NE SPAIN) *Nuria Blanco-Moure, Zaragoza - Spain*
	S07.07-P -35 SOIL ORGANIC MATTER IN TWO DIFFERENT REGIONS OF THE SAO PAULO STATE – BRAZILIAN SOUTHEASTERN REGION - ASSESSMENT OF QUALITY *Alexandre Marco Da Silva, Sorocaba - Brazil*
	S07.07-P -36 SOIL ORGANIC MATTER STOCK CHANGES IN A CEREAL/LEGUMINOUS CROP ROTATION MANAGED WITH NO-TILLAGE FOR OVER TWO DECADES *Claudia Di Bene, Pisa - Italy*
	S07.07-P -37 SOIL QUALITY PARAMETERS IN GRASS AND MIXED VEGETATION BUFFER STRIPS *Alessandra Cardinali, Legnaro (PD) - Italy*
	S07.07-P -38 STUDY OF THE EFFECTS OF LONG-TERM ORGANIC FERTILIZATIONS ON SOIL MACROPOROSITY USING X-RAY MICROTOMOGRAPHY *Nicola Dal Ferro, Padova - Italy*
	S07.07-P -39 STUDY ON SOIL ORGANIC MATTER CONTENT AND SOIL PHYSICAL PROPERTIES IN LONG-TERM FIELD EXPERIMENT *Attila Dunai, Keszthely - Hungary*
	S07.07-P -40 SUSTAINABLE MANAGEMENT OF AGRICULTURAL SOILS IN EUROPE FOR ENHANCING CROP PRODUCTION AND CLIMATE CHANGE MITIGATION (SMARTSOIL) *Jørgen E. Olesen, Tjele - Denmark*
	S07.07-P -41 THE EFFECTS OF CROPPING TECHNOLOGY ON SOIL CARBON STOCK OF CHERNOZEM SOIL *Srdjan Seremesic, Novi Sad - Serbia*
	S07.07-P -42 THE EFFECTS OF LAND USE CHANGE ON SOME OF SOIL QUALITY PROPERTIES IN THE SAFASHAHR AREA, FARS PROVINCE, IRAN *Reza Karimi, Shahrekord - Iran, Islamic Republic of*
	S07.07-P -43 TILLAGE AND COVER CROP SPECIES AFFECTS SOIL ORGANIC CARBON IN ANDOSOL, KANTO, JAPAN *Tatsuya Higashi, Ibaraki - Japan*
	S07.07-P -44 THE HUMUS BALANCE MODEL HU-MOD – METHODOLOGY AND SCOPE *Christopher Brock, Giessen - Germany*
	S07.07-P -45 THE EFFECTS OF LAND USE CHANGES ON SOIL ORGANIC C POOLS AND C STOCKS IN ZREBAR LAKE WATERSHED *Mohsen Sheklabadi, Hamedan - Iran, Islamic Republic of*
	S07.07-P -46 LONG-TERM LAND USE CHANGE EFFECTS ON DENSITY FRACTIONS OF SOIL ORGANIC C MANAGEMENT INDEX IN ZREBAR LAKE WATERSHED *Mohsen Sheklabadi, Hamedan - Iran, Islamic Republic of*
	S07.07-P -47 PROTECTION OF SOIL ORGANIC MATTER IS PROTECTION OF LIFE *Mohammad Ali Daei,Yazd - Iran, Islamic Republic of*
	S10.02-P **NEW TECHNOLOGIES TO DETERMINE THE SOIL INFLUENCE ON WINE GRAPE AND OTHER QUALITY CROPS**
	S10.02-P -1 LAND EVALUATION MODEL "ALBARIZA" FOR PREDICTING VINEYARD PRODUCTIVITY *María Anaya-Romero, Seville - Spain*
	S10.02-P -2 ANALYSIS OF VINEYARD RESPONSE IN FIELDS AFFECTED BY EPHEMERAL GULLYING USING AN HYDROLOGICAL MODEL AND MULTISPECTRAL AERIAL IMAGES *María Concepción Ramos, Lleida - Spain*
	S10.02-P -3 DISTRIBUTION OF PHOSPHORUS AND POTASSIUM (AL-METHOD) IN VINEYARDAS OF EASTERN CROATIA *Daniel Rasic, Osijek - Croatia*
	S10.02-P -4 GRASSED VINEYARDS, CONSEQUENCES IN SOIL PARAMETERS AND PRODUCTION, MUST AND WINE *Maria Jose Marques, Madrid - Spain*
	S10.02-P -5 HOMOGENEOUS ZONES WITHIN THE VINEYARD FOR SEPARATE GRAPE-HARVESTING: A CASE STUDY ON THE APPLICATION OF AN EMI PROXIMAL SENSOR *Simone Priori, Firenze - Italy*
	S10.02-P -6 INTEGRATED USE OF INNOVATIVE TECHNOLOGIES AND STANDARD PEDOLOGICAL SURVEY FOR CHARACTERIZING THE VARIABILITY OF VINEYARD SOILS *Nadia Vignozzi, Firenze - Italy*
	S10.02-P -7 MOBILITY OF SELECTED TRACE ELEMENTS IN THE AGROSYSTEM SOIL - GRAPEVINE (LEAVES) - WINE FROM HUSI AREA, ROMANIA *Ramona Huzum, Iasi - Romania*

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POSTER SESSIONS

17.00-18.30	S10.02-P -8 REACTIVITY AND SURFACE PROPERTIES OF CARBONATES IN SOILS FROM A TYPICAL ITALIAN WINE-PRODUCING AREA (MONFERRATO - NW ITALY) *Marcella Catoni, Grugliasco (TO) - Italy*
	S10.02-P -9 SOIL CHARACTERISTICS AS PART OF AN INTERDISCIPLINARY STUDY TO DESCRIBE THE "TERROIR" OF THE CARNUNTUM WINE GROWING AREA, AUSTRIA *Andreas Baumgarten, Vienna - Austria*
	S10.02-P -10 SOIL POTASSIUM AND MAGNESIUM AVAILABILITY AS RELATED TO PROPERTIES OF VINEYARD SOILS *Giuseppe Valboa, Florence - Italy*
	S10.02-P -11 THE STUDY OF SOIL MICROBIAL ACTIVITY ASSOCIATED TO GRAPEVINE PLANTS GROWN UNDER DIFFERENT WATER STRESS BY MEANS OF GEOCHIP MICROARRAYS *Stefano Mocali, Firenze - Italy*
	S10.02-P -12 USING A.R.P. PROXIMAL SURVEY TO MAP CALCIC HORIZON DEPTH IN VINEYARDS *Simone Priori, Firenze - Italy*
	S12.01-P **PEDOLOGICAL PROCESSES AND SOIL POLLUTION**
	S12.01-P -1 THE EFFECT OF CHEMICAL FERTILIZERS, ANIMAL MANURE AND SAWDUST ON REDUCE OIL POLLUTION BY NATIVE MICROORGANISM *Soheila Ebrahimi, Gorgan - Iran, Islamic Republic of*
	S12.01-P -2 A RADIO-ISOTOPIC DILUTION TECHNIQUE FOR CHARACTERISING ASSOCIATIONS BETWEEN METAL(LOID)S AND NATURALLY OCCURRING SOIL NANOPARTICLES *Ehsan Tavakkoli, Adelaide - Australia*
	S12.01-P -3 ADHESION OF MICROORGANISMS ENHANCES THEIR BIODEGRADATION POTENTIAL *Alena Cejkova, Prague - Czech Republic*
	S12.01-P -4 AVAILABILITY OF BA, CR, CU, NI AND ZN IN TROPICAL SOILS SUBJECTED TO THE ADDITION OF SEWAGE SLUDGE *Larissa Macedo Dos Santos, Pato Branco - Brazil*
	S12.01-P -5 BIOAVAILABILITY OF METALS AND RADIONUCLIDES IN VENEZUELAN BAUXITE RESIDUE *Brenda Omaña Sanz, Lille - France*
	S12.01-P -6 BIODIVERSITY AND PAH-DEGRADING POTENTIAL OF THE BACTERIAL COMMUNITY OF A POLLUTED SOIL AS STUDIED BY STABLE ISOTOPE PROBING *Jouanneau Yves, Grenoble - France*
	S12.01-P -7 BIOGEOCHEMICAL CRITERIA TO ASSESS RECLAMATION EFFORTS FOLLOWING OIL SANDS MINING *Sylvie Quideau, Edmonton - Canada*
	S12.01-P -8 BIOREMEDIATION OF A PCP CONTAMINATED SOIL BY USING FUNGI AND COMPOST *Rosalia Scelza, Portici - Italy*
	S12.01-P -9 COLLOID-FACILITATED TRANSPORT OF METAL AND METALLOIDS IN A TECHNOSOL: A COLUMN LEACHING STUDY *Bo Hu, Limoges - France*
	S12.01-P -10 COMPARAISON OF SOIL SOLUTION CHEMISTRY SAMPLED BY TWO TYPES OF SUCTION PROBES *Fanny Coutelot, Pessac - France*
	S12.01-P -11 COMPARATIVE ANALYSIS OF TOTAL PETROLEUM HYDROCARBONS BY INDIGENOUS AND NON-INDIGENOUS MICROORGANISMS IN SOIL *Soheila Ebrahimi, Gorgan - Iran, Islamic Republic of*
	S12.01-P -12 COMPARISON OF TWO SEQUENTIAL EXTRACTION PROCEDURES FOR THE FRACTIONATION OF ZINC IN AGRICULTURAL CALCAREOUS SOILS OF IRAN *Akbar Forghani, Rasht - Iran, Islamic Republic of*
	S12.01-P -13 CONTENT OF POLYCYCLIC AROMATIC HYDROCARBONS IN SOILS OF URBAN AREAS *Evgeny Lodygin,- Russian Federation*
	S12.01-P -14 DETERMINATION OF WATER/LNAPL CONTENT IN A POROUS MEDIA BY ADSORPTION ON ACTIVATED CARBON *Svatopluk Matula, Prague - Czech Republic*
	S12.01-P -15 DIOXINS AND PCBS – NO END IN SIGHT. SOIL AS A SINK AND SOURCE OF POLLUTANTS *Bernd M Bussian, Dessau - Germany*
	S12.01-P -16 ECOTOXICITY TESTS TO ASSESS LANDFILLING OF POLLUTED SOILS IN FUNCTION OF METAL AVAILABILITY *Yann Foucault, Toulouse - France*
	S12.01-P -17 EFFECT OF INORGANIC FERTILIZER MANUFACTURED WITH COAL ASH ON SOIL QUALITY AND CROP GROWTH IN UPLAND *Jae E. Yang, Chuncheon - Korea, Republic of*
	S12.01-P -18 EFFECT OF SOIL PHOSPHOGYPSUM RECLAMATION ON THE LEAD AND CADMIUM FORMS IN CHERNOZEM *Anatoly Endovitsky, Persianovka - Russian Federation*

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17.00-18.30	S12.01-P -19 EFFECT OF THE PARTICLE-SIZE DISTRIBUTION ON THE ADSORPTION OF COPPER, LEAD, AND ZINC BY CHERNOZEM *Tatiana Minkina, Rostov-on-Don - Russian Federation*
	S12.01-P -20 EVALUATING BIOAVAILABILITY OF HEAVY METALS WITH VARIED EXTRACTANTS IN AGRICULTURAL FIELD *Jae E. Yang, Chuncheon - Korea, Republic of*
	S12.01-P -21 EVALUATING RECLAMATION FEASIBILITY OF COAL ASH FOR OVERBURDEN IN COAL MINE: COLUMN LEACHING EXPERIMENT *Jae E. Yang, Chuncheon - Korea, Republic of*
	S12.01-P -22 EVALUATION OF POLLUTION LEVEL OF SOILS OF ECOLOGICAL VOLNERABLE AREAS AROUND AGARAK TOWN AND SUGGESTION OF IMPROVEMENT WAYS *Karen Ghazaryan, Yerevan - Armenia*
	S12.01-P -23 EVALUATION OF THE MICROBIAL POPULATION IN DIFFERENT CONDITIONS OF OIL POLLUTION REFINEMENT *Soheila Ebrahimi, Gorgan - Iran, Islamic Republic of*
	S12.01-P -24 FRACTIONATION CHANGES OF CADMIUM WITH TIME IN SOILS TREATED WITH CADMIUM CHLORIDE IN DIFFERENT MOISTURE REGIMES *Akbar Forghani, Rasht - Iran, Islamic Republic of*
	S12.01-P -25 FRACTIONATION OF HEAVY METALS AND THEIR TRANSFORMATION TO RADISH IN SOIL AMENDED WITH DIFFERENT RATE OF SWAGE SLUDGE *Ghasem Rahimi, Hamedan - Iran, Islamic Republic of*
	S12.01-P -26 GREEN MANURE CROPS FOR SOIL QUALITY RESTORATION IN KITCHEN GARDENS *Yann Foucault, Toulouse - France*
	S12.01-P -27 HEAVY METALS CONTENT IN URBAN SOILS OF ISFAHAN, CENTRAL IRAN *Zahra Rasaei, Shahrekord - Iran, Islamic Republic of*
	S12.01-P -28 IMPACT OF A TRACE METAL CONTAMINATION FROM MINING ACTIVITY ON SOIL MICROBIAL COMMUNITIES AND RESPIRATION ACTIVITY OF IRRIGATED KASTANOZEMS IN GEORGIA *Hülya Kaplan, Giessen - Germany*
	S12.01-P -29 IMPACT OF SOUR EL GHOZLANE'S CEMENT PLANT'S EMISSIONS ON SOIL AND VEGETATION *Yacine Bellout, Boumerdes - Algeria*
	S12.01-P -30 INFLUENCE OF SOME POTENTIALLY HARMFUL ELEMENTS CONTAMINATION ON THE BIOLOGICAL ACTIVITIES IN SOILS *Jaume Bech, Barcelona - Spain*
	S12.01-P -31 INVESTIGATION OF PEDOGENESIS AND WEATHERING PROCESSES ON AGGTELEK KARST (NORTH-EAST HUNGARY) *Nóra Czirbus, Szeged - Hungary*
	S12.01-P -32 METAL AND METALLOID BEHAVIOUR IN COLLUVIOSOLS LOCATED ALONG A TRANSECT OF INCREASING SOIL CONTAMINATION *Catherine Keller, Aix-en-Provence - France*
	S12.01-P -33 NONYLPHENOL ON SOIL: EFFECTS ON AGGREGATE STABILITY, WATER RETENTION AND MICROBIAL ACTIVITY *Gerardo Ojeda, Coimbra - Portugal*
	S12.01-P -34 RAILWAY RELATED SOIL POLLUTION: THE TURIN-LYON HIGH-SPEED RAIL CASE *Massimo Zucchetti, Torino - Italy*
	S12.01-P -35 REMOVAL OF ANTHRACENE FROM A SURFACTANT-AMENDED SOIL *Gabriela Salomón-Hernández, - Mexico*
	S12.01-P -36 RESISTANCE OF RHODOCOCCUS ERYTHROPOLIS BIOFILM, POTENT DEGRADER OF AROMATIC COMPOUNDS, TO ATTACK OF (BIO)SURFACTANTS *Jan Masak, Prague - Czech Republic*
	S12.01-P -37 SOIL PROTECTION ON CONSTRUCTION SITES: 10 YEARS OF EXPERIENCE *Elena Havlicek, Bern - Switzerland*
	S12.01-P -38 SOIL PROTECTION SPECIFIC REQUIREMENTS WITHIN THE FRAMEWORK OF CARBON DIOXIDE CAPTURE AND STORAGE (CCS) ACTIVITIES *C. Florian Stange, Hannover - Germany*
	S12.01-P -39 USING SPATIAL DISTRIBUTION MAPS TO DEFINE POLLUTION SOURCE OF SOILS WITH HEAVY METALS *Giorgi Ghambashidze, Tbilisi - Georgia*
	S12.01-P -40 STUDY OF ADSORPTION OF Cu, Ni, Cd, Pb AND Zn BY SOILS OF THE NEGRO RIVER'S BASIN IN THE BRAZILIAN AMAZON *Paulo Sergio Tonello, Sorocaba - Brazil*
	S12.01-P -41 SUDAN GRASS (SORGHUM SUDANENSE PERS.) IN GREEN MANURING OF SANDY DEPOSOLS IN STANARI MINING AREA *Mihajlo Markovic, Banja Luka - Bosnia and Herzegovina*
	S12.01-P -42 THE ASSESSMENT OF PHOSPHORUS FORMS IN LAKE SEDIMENTS AND ITS INFLUENCE ON WATER QUALITY *Ghasem Rahimi, Hamedan - Iran, Islamic Republic of*

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POSTER SESSIONS

17.00-18.30	S12.01-P -43 THE EFFECT OF HEAVY METALS DEPOSITED IN SILT OF THE SO-CALLED "BIAŁOGON POND" ON CHARACTERISTICS OF DRINKING WATER FOR THE CITY OF KIELCE (POLAND) *Anna Swiercz, Kielc - Poland*
	S12.01-P -44 TRICLOSAN BIOAVAILABILITY DETERMINED BY WHEAT PLANTS GROWN IN SOILS TREATED WITH BIOSOLIDS *Inés Ahumada, Santiago - Chile*
	S12.01-P -45 URBAN SOILS AND GROUNDS AS A SOURCE OF GREENHOUSE GASES IN ATMOSPHERE *Svetlana Kulachkova, Moscow - Russian Federation*
	S12.01-P -46 SOIL RECLAMATION AND ENVIRONMENT CONSERVATION WITH GEOGRID IN THE ARID AREA (CHANDAB BASIN-IRAN) *Kaveh Khaksar, Karaj - Iran, Islamic Republic of*
	S12.03-P **BIOGEOCHEMISTRY OF CONTAMINANTS IN WETLAND AND RIVER FLOODPLAIN SOILS**
	S12.03-P -1 A PROBABILISTIC MULTI-COMPARTMENTAL MODEL FOR EVALUATING BIOAVAILABLE CONCENTRATIONS OF METALS IN SOILS AND SEDIMENTS BY DGT *Philippe Ciffroy, Chatou - France*
	S12.03-P -2 ADVANCEMENT OF A SOIL MICROCOSM TECHNIQUE FOR RESEARCH OF BIOGEOCHEMISTRY OF CONTAMINANTS IN WETLAND SOILS *Jörg Rinklebe, Wuppertal - Germany*
	S12.03-P -3 BEHAVIOUR OF TRACE METALS IN EUTROPHICATED WETLANDS POLLUTED BY MINE WASTES: ASSAYS IN SIMULATED SOIL PROFILES WITH AND WITHOUT LIMING AND WITH AND WITHOUT VEGETATION *María Nazaret González-Alcaraz, Cartagena - Spain*
	S12.03-P -4 BIOINDICATING PROPERTIES OF MACROPHYTES FOR MONITORING TRACE ELEMENT-EXPOSURE ALONG THE JALLE RIVER (FRANCE) *Lilian Marchand, Talence - France*
	S12.03-P -5 COPPER ISOTOPE FRACTIONATION AS A PROXY FOR BIOGEOCHEMICAL PROCESSES IN WETLANDS RECEIVING COPPER-CONTAMINATED RUNOFF FROM AGRICULTURAL CATCHMENT *Izabella Babcsanyi, Strasbourg - France*
	S12.03-P -6 DYNAMICS OF SOLUBLE NICKEL IN A SERPENTINE SOIL: AN EXPERIMENT FROM REDUCING TO OXIDIZING CONDITIONS *Svetlana Antic-Mladenovic, Belgrade - Serbia*
	S12.03-P -7 FACTORS AFFECTING PHOSPHORUS RELEASE FROM SEDIMENTS TO WATER *Malorie Renneson, Gembloux - Belgium*
	S12.03-P -8 LEACHING OF (A, ß, ?, D) HCH ISOMERS FROM A CONTAMINATED SOIL THROUGH ALLUVIAL SOIL *Dousset Sylvie, Vandoeuvre-lès-Nancy - France*
	S12.03-P -9 NATURAL ANARSENIC-IRON COPRECIPITATES: IMPLICATIONS FOR ARSENIC MOBILITY IN THE WATER-SOIL SYSTEM *Maria Martin, Grugliasco - Italy*
	S12.03-P -10 REDUCED SULFUR MINERALS IN WETLAND SOILS *Robert Gilkes, Perth - Australia*
	S12.03-P -11 SOLUBILITY OF FERROUS IRON LIMITS RELEASE OF PHOSPHOROUS IN SUBMERGED SOILS *Fien Amery, Leuven - Belgium*
	S12.03-P -12 STUDY OF MERCURY ACCUMULATION IN TYPHA DOMINGENSIS (PERS.) IN VALDEAZOGUES RIVER BASIN (ALMADÉN-SPAIN) *Miguel Angel Lominchar, Madrid - Spain*
	S12.05-P **SPECIATION AND LOSSES OF PHOSPHORUS AND METALS FROM SOILS AN MITIGATION MEASURES**
	S12.05-P -1 ENVIRONMENTAL RISK ASSESSMENT OF NANOMATERIALS: INTERDISCIPLINARY METHOD DEVELOPMENT *Enzo Lombi, Adelaide - Australia*
	S12.05-P -2 FIELD-FLOW FRACTIONATION TO ASSESS COLLOIDAL COPPER FORMS IN VINEYARD SOIL WATERS *Hind El Hadri, Pau - France*
	S12.05-P -3 MOBILITY OF SILVER AND SILVER NANOPARTICLES IN SOILS *Martin Hoppe, Hannover - Germany*
	S12.05-P -4 PHOSPHATE-BEARING FE(III) PRECIPITATES FORMING BY FE(II) OXIDATION IN WATER *Andreas Voegelin, Duebendorf - Switzerland*
	S12.05-P -5 APPLICATION OF THE PHOSPHOROUS LEACHING MODEL PLEASE AT THE REGIONAL SCALE *Caroline Van Der Salm, Wageningen - Netherlands*
	S12.05-P -6 ASSESSMENT OF PHOSPHORUS (P) LEACHING LOSSES FROM A LONG-TERM MANURED SANDY SOIL *Jian Liu, Uppsala - Sweden*

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17.00-18.30	S12.05-P -7 CARBONATION AGEING OF EAF SLAG: IMPLICATIONS FOR LEACHING BEHAVIOUR *Gorka Gallastegui, Bilbao - Spain*
	S12.05-P -8 COLLOID-FACILITATED TRANSPORT OF PHOSPHORUS THROUGH SOIL COLUMNS: INFLUENCE OF SOIL TEXTURE AND CROPPING SYSTEM. *Mohsen Morshedizad, Hamadan - Iran, Islamic Republic of*
	S12.05-P -9 COMPARISON OF EXTRACTION METHODS FOR PHOSPHORUS (P) AND ITS MAJOR BINDING COMPONENTS (FE, AL) IN NON-CALCAREOUS SOILS AND SEDIMENTS *Jan Jirí, Ceske Budejovice - Czech Republic*
	S12.05-P -10 COMPETITIVE AND SYNERGISTIC EFFECTS IN PH DEPENDENT PHOSPHATE ADSORPTION IN SOILS: LCD MODELING *Liping Weng, Wageningen - Netherlands*
	S12.05-P -11 EFFICACY OF PHOSPHORUS BINDING MATERIALS IN REDUCING DISSOLVED PHOSPHORUS LOSSES IN SURFACE RUNOFF FROM GRASSLANDS *Mari Räty, Maaninka - Finland*
	S12.05-P -12 GROUNDWATER-P CONCENTRATIONS BENEATH DUTCH AGRICULTURAL SOILS *Mostafa Emadi, Wageningen - Netherlands*
	S12.05-P -13 IRRIGATION PRACTICE AFFECTS SOIL PHOSPHORUS AVAILABILITY *Jim Ippolito, Kimberly, ID - United States*
	S12.05-P -14 IS A ZERO P-INPUT COMPATIBLE WITH A SUSTAINABLE AGRICULTURE? LONG-TERM FIELD EXPERIMENTS IN LOAMY SOILS *Malorie Renneson, Gembloux - Belgium*
	S12.05-P -15 LONG TERM EFFECTS OF MINING SOIL PHOSPHOROUS BY ZERO P APPLICATION *Caroline Van Der Salm, Wageningen - Netherlands*
	S12.05-P -16 MANAGING PHOSPHORUS LEACHING ON SANDY MEDITERRANEAN SOILS TO MEET AGRONOMIC AND ENVIRONMENTAL TARGETS *Mike T F Wong, Floreat - Australia*
	S12.05-P -17 PHOSPHORUS BIOCYCLING IN WET/DRY INCUBATED SOILS SUBJECTED TO A DIFFERENT FERTILIZATION HISTORY FOR ASSESSING THE RISK OF LEACHING *Teresa Borda, Grugliasco (Torino) - Italy*
	S12.05-P -18 PHOSPHORUS DISTRIBUTION IN THE PROFILES OF THREE ITALIAN SOILS AFTER LONG-TERM MINERAL AND MANURE APPLICATIONS *Diego Pizzeghello, Legnaro (Padova) - Italy*
	S12.05-P -19 PHOSPHORUS LEACHING FROM A CLAY AND SANDY SOIL SUPPLIED WITH MANURE AND MINERAL FERTILIZER *Jian Liu, Uppsala - Sweden*
	S12.05-P -20 PHOSPHORUS LOAD FROM GRASSLANDS TO INLAND WATERS IN CENTRAL FINLAND *Mari Räty, Maaninka - Finland*
	S12.05-P -21 PREDICTING PHOSPHORUS LOSSES WITH THE MODEL PLEASE IN THE ACID SANDY REGION OF FLANDERS *Sara De Bolle, Ghent - Belgium*
	S12.05-P -22 THE EFFECT OF VARIOUS FERTILIZING STRATEGIES ON SOIL ORGANIC MATTER, SOIL P FRACTIONS AND P LEACHING POTENTIAL IN FLANDERS AND THE NETHERLANDS *Thijs Vanden Nest, Merelbeke - Belgium*
	S12.05-P -23 THE EUTROPHICATION POTENTIAL OF PHOSPHORUS IN AGRICULTURAL SOILS OF THE CZECH REPUBLIC *Jakub Borovec, Ceske Budejovice - Czech Republic*
	S12.05-P -24 THE IMPACT OF PH ON PHOSPHORUS SORPTION IN PHOSPHORUS-RICH SANDY SOILS *Magdalena Debicka, Wroclaw - Poland*
	S12.05-P -25 THE INFLUENCE OF ECO-TOURISM AND FARMING PRACTICES ON THE QUALITY OF EAST MEDITERRANEAN ALTERED WETLAND SOILS AND WATERWAYS *Iggy Litaor, Kyriat Shemona - Israel*
	S12.06-P **OPPORTUNITIES AND CHALLENGES IN MINE SITE REHABILITATION**
	S12.06-P -1 ARSENIC CONTAMINATED SOILS FROM THE SIERRA MINERA OF LA UNIÓN *Clémence Bes, Murcia - Spain*
	S12.06-P -2 BIOAVAILABLE PB REDUCTION IN CONTAMINATED SOIL AMENDED BY ANIMAL MANURE COMPOSTS *Masahiko Katoh, Gifu - Japan*
	S12.06-P -3 CADMIUM AND LEAD SORPTION CAPACITY IN SOME PALYGORSKITIC SOILS IN ISFAHAN PROVINCE *Mohammad Hassan Salehi, Shahrekord - Iran, Islamic Republic of*
	S12.06-P -4 CHANGES IN THE MICROBIOLOGICAL PROPERTIES OF SOIL POLLUTED WITH RED MUD *Gábor Csitári, Keszthely - Hungary*
	S12.06-P -5 CONTRIBUTION TO THE STUDY OF SOIL-TECNOSOL EQUILIBRIUM IN THE CU MINE OF TOURO (GALICIA, NW SPAIN) *Jose Ramon Verde Vilanova, Santiago de Compostela - Spain*
	S12.06-P -6 DEVELOPMENT OF REMEDIATION GUIDELINES FOR CONTAMINATED SITES BASED ON THE RESULTS OF THE EU-PROJECT UMBRELLA *Andreas Baumgarten, Vienna - Austria*

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	S12.06-P -7 DEVELOPMENT OF REMEDIATION GUIDELINES FOR CONTAMINATED SITES BASED ON THE RESULTS OF THE EU-PROJECT UMBRELLA *Andreas Baumgarten, Vienna - Austria*
	S12.06-P -8 EFFECT OF NATIVE PLANT SPECIES ON PYRITIC MINE SOILS. *Rebeca Manzano, Madrid - Spain*
	S12.06-P -9 EFFECTS OF PH AND SOLUBLE ORGANIC MATTER PROVIDED BY ORGANIC AMENDMENTS ON HEAVY METAL MOBILITY IN MINE SOILS *Javier Pérez-Esteban, Madrid - Spain*
	S12.06-P -10 ENVIRONMENTAL GRADIENTS AND COLONIZATION PATTERNS OF PIONEER VEGETATION IN MINE TAILINGS LOCATED AT SOUTHEAST SPAIN *Héctor Miguel Conesa-Alcaraz, Cartagena - Spain*
	S12.06-P -11 ESTIMATING SOIL WATER AND BUFFER PROPERTIES OF MINE SPOILS IN NORTHEASTERN GERMANY FOR SOIL FERTILITY CLASSIFICATION *Thomas Heinkele, Finsterwalde - Germany*
	S12.06-P -12 EVALUATION OF BIOLOGICAL SOIL QUALITY (QBS-AR) INDEX FROM SPOLIC TECHNOSOLS IN AN ABANDONED MINE AREA IN NE ITALY: 50 YEARS OF BIOLOGICAL REHABILITATION OPPORTUNITY *Andrea Ferrarini, Venice - Italy*
	S12.06-P -13 EVALUATION OF THE PHYTOSTABILISATION EFFICIENCY IN A TRACE ELEMENTS POLLUTED SOIL USING SOIL MICROBIAL PARAMETERS *Tania Pardo, Murcia - Spain*
	S12.06-P -14 FIRST DATA ON PEDOGENESIS AND EVOLUTION OF PLANT COVER ON CONTAMINATED SUBSTRATA COLONIZED BY TWO ENDEMIC METALLOPHYTES FROM THE MINING AREAS OF SW-SARDINIA *Mauro Casti, Iglesias - Italy*
	S12.06-P -15 IMPACT OF PAST MINING ACTIVITY ON THE QUALITY OF SOIL IN THE HIGH MOULOUYA VALLEY (MOROCCO) *Pietro Iavazzo, Napoli - Italy*
	S12.06-P -16 METHANOTROPHIC ACTIVITY OF THE COALBED ROCKS FROM UPPER SILESIAN COAL BASIN *Anna Pytlak, Lublin - Poland*
	S12.06-P -17 MOBILITY OF TOXIC METALS FROM CALCAREOUS MINE TAILINGS IN COMPOST AMENDED MESOCOSMS *Maria De Nobili, Udine - Italy*
	S12.06-P -18 PHYTOMINING OF NICKEL IN SERPENTINE SOILS OF ALBANIA *Aida Bani, Tirana - Albania*
	S12.06-P -19 POTENTIAL USE OF SORGHUM BICOLOR AND CARTHAMUS TINCTORIUS IN PHYTOREMEDIATION OF NI, PB AND ZN
17.00-18.30	*Ziad Al Chami, Valenzano - Italy*
	S12.06-P -20 SOIL-PLANT INTERACTIONS AT THE ABANDONED SÃO DOMINGOS MINE (IBERIAN PYRITE BELT, PORTUGAL) *Paula Alvarenga, Beja - Portugal*
	S12.06-P -21 SULFATE RELEASE FROM COAL OVERBURDEN TREATED WITH LIME IN A LONG TERM LEACHING EXPERIMENT *Luiz Fernando Spinelli Pinto, Pelotas - Brazil*
	S12.06-P -22 SUSTAINABLE TAILINGS TREATMENT, REMEDIATION AND REVEGETATION: A REAL-WORLD LONGITUDINAL STUDY OF THE KING RIVER "TAILINGS BEACH" COMPARING VIROMINE TECHNOLOGY TO A STANDARD APPLICATION AND DOING NOTHING *Lee Fergusson, Coomera Waters - Australia*
	S12.06-P -23 TAILINGS COVER SYSTEM USING A SOLIDIFIED LAYER AND ITS FIELD PERFORMANCE *Joo Sung Ahn, Daejeon - Korea, Republic of*
	S12.06-P -24 THE EFFECT OF TWO EARTHWORM SPECIES ON PB, ZN, CD AND CU BIOACESSIBILITY AND MICROBIAL ACTIVITY IN SOIL AFTER ITS REMEDIATION WITH STABILIZATION *Metka Udovic, Ljubljana - Slovenia*
	S12.06-P -25 THE GREENLAND PROJECT: GENTLE REMEDIATION OF TRACE ELEMENT CONTAMINATED LA *Markus Puschenreiter, Tulln - Austria*
	S12.06-P -26 THE POTENTIAL OF CISTUS LADANIFER L. IN THE RESTORATION OF MINE TAILINGS AT RIOTINTO (SW SPAIN) *Mª Dolores Mingorance, Granada - Spain*
	S12.06-P -27 THE ROLE OF HYDROLOGICAL PROPERTIES AND THEIR EFFECTS ON GEOCHEMICAL PROCESSES FOR ESTABLISHING ROOT ZONES IN MINE WASTES *Thomas Baumgartl, Brisbane - Australia*
	S12.06-P -28 TRANSPORT OF COPPER, CADMIUM AND NICKEL IN MINE SOILS AMENDED WITH MUSSEL SHELL RESIDUES *Marcos Paradelo, Ourense - Spain*
	S12.06-P -29 URANIUM AND DECAY PRODUCTS IN SOME SOILS IN THE VICINITY OF FORMER URANIUM MINING SITES *Lauret Pourcelot, St Paul lez Durance - France*
	S12.06-P -30 USE OF BIODIESEL BYPRODUCT AS NUTRIENTS SOURCE FOR IRON-MINE TAILING RECLAMATION *Ana Sevilla Perea, Armilla - Spain*
	S12.06-P -31 USE OF PGPB TO ENHANCE MICROBIAL FUNCTIONAL AND GENETIC DIVERSITY IN MINING SOILS: A PRELIMINARY STUDY WITHIN THE UMBRELLA PROJECT *Sara Marinari, Viterbo - Italy*

GUIDELINES

SESSION CHAIRS

Please locate your session room in due time. You will find all necessary information concerning the date, time and location of your session again in this Final Programme Book.
Please be in your Session room at least 10 minutes prior to the start of the Session.
We remind you that Speakers should strictly observe timing.

ORAL PRESENTATIONS

Oral presentations are scheduled in the morning (from h 8.30 to h 12.00) and afternoon (from h 13.30 to h 17.00) of each working day (from 3 to 6 July), and only in the afternoon of the first day (2 July).
The speakers are kindly requested to upload their presentations directly in the slide center, where a technical assistant will be available for any help. Oral presentations have to be uploaded not later than 30 minutes preceding the actual time block of the session.

POSTER PRESENTATIONS

The poster display time is from 8.00 to 19.30 of the assigned presentation day. Authors are kindly requested to place their poster(s) from 08.00 to 08.30, be available at their display from 17.00 to 18.30, and remove the poster(s) from 19.00 to 19.30. After this time the remaining posters will be removed by the conference staff and discarded.
Poster boards are positioned in two different areas: ground floor (pavilion 9) and first floor (pavilion 10).
Poster numbers will be indicated on the boards by session and consecutive numbers. A poster help desk will be available during the congress. Adhesive material will be provided at the poster help desk.
The organizers do not take responsibility for loss or damage of posters displayed in the poster area if not remove by their authors.

REGISTRATION FEES

	ON-SITE
Regular Attendants	€ 630,00
Certified Students*	€ 340,00
Accompanying persons	€ 150,00
One Day registration	€ 200,00

All fees are 21% VAT included.
*Proof of student status must be provided by a relevant certificate signed by the tutor and must be exhibited at the registration desk.

The registration fee includes:

Attendants/Students: Welcome Cocktail at the venue on Monday 2 July, access to the opening and closing ceremony, attendance at all scientific sessions and to the exhibition and poster area, two tickets per day to access the coffee points, name badge, congress kit, scientific programme, proceedings of the conference on a USB flash drive, a certificate of attendance and an insurance coverage at the congress site only.

One Day registration: attendance at scientific sessions and to the exhibition and poster area, two tickets to access the coffee points, name badge, congress kit, scientific programme, proceedings of the conference on a USB flash drive, a certificate of attendance and an insurance coverage at the congress site only.

Accompanying persons: Welcome Cocktail at the venue on Monday 2 July, access to the exhibition area, name badge, map of the city of Bari, tour in the Old City of Bari on Tuesday, 3 July, bus transfers, entrance ticket and insurance coverage at the congress site only.
The fee does not include anything not specifically mentioned above under the heading “the registration fee includes”.

METHODS OF PAYMENT ON SITE

Registration on site will be accepted only by paying the related fee in cash or by traveler cheques. No credit cards or personal cheques will be accepted.

CANCELLATION AND REFUND POLICY

Note: All refunds will be processed by Selecto Srl after the congress.

CHANGES AND/OR AMENDMENTS

Selecto Srl reserves the right to make any changes for organizational or logistics reasons, which will be promptly notified by e-mail.

ACCOMPANYING PERSONS PROGRAMME

BARI CITY TOUR

Tuesday July 3, 2012

(Half day excursion for accompanying person only)

Several times destroyed and immediately rebuilt on its ruins from the strong, brave and sagacious inhabitants, famous navigators and merchants: this is the story of Bari.
A short drive by coach will take passengers to the “Old Town” on the Crusader’s routes to discover the stories and legends of this sea town: the Swabian Castle , also called “Women Castle”, the Cathedral of Saint Sabin and the Basilica of Saint Nicholas, patron saint of Bari and whose relics are preserved inside. The walk will proceed to Ferrarese and Mercantile Squares, the oldest centres of the social, economical and political life of the town.
A drive through the modern side of the town, with its elegant seafront promenade, will take passengers back to the starting point.

Buses depart from the Congress venue (Fiera del Levante Bari) at 9:00 hrs. Return at the starting point.
Duration: about 3.5 hrs. about.

Basilica of Saint Nicholas

Swabian Castle

Cathedral of Saint Sabin

Seafront promenade

Old City

EXCURSIONS

	Cost per person
"Sassi" of Matera	€ 105,00
Alberobello	€ 50,00

All fees are 21% VAT included.

The excursion fee includes:

Full day excursion at **"Sassi" of *Matera***, the unique cave town UNESCO World Heritage, on Wednesday 4 July (bus transfer, tour guide, entrance ticket and lunch at a restaurant).

Half day excursion at **Alberobello,** the famous unique Trulli town UNESCO World Heritage, on Thursday 5 July (bus transfer, tour guide and entrance ticket).

The fee does not include anything not specifically mentioned under the heading "the excursion fee includes".

EXCURSIONS PROGRAMME

MATERA
Wednesday, July 4, 2012
(Full day excursion - only for pre-registred partecipants)

Departure from Bari and transfer to Matera, the "town of Sassi". The city of Matera hosts very ancient quarters with rock-hewn homes and was declared by UNESCO a World Heritage Site in 1993: this is a unique opportunity to discover the real places where "The Passion of Christ" by Mel Gibson was shot. The first time Mel Gibson saw Matera, he just went crazy because it was simply perfect to shoot his movie: in fact, this city of the 21st century looks like an ancient town thanks to its deep canyon with numerous grottoes where streets, dwellings and churches were amazingly carved into the rock.
Upon arrival in Matera passengers will meet their local guide and start the guided tour. From Piazzetta Pascoli passengers will be able to enjoy a stunning view on Rione Sasso Caveoso and on the upland of Murge. The guided tour will continue through the narrow streets of Sasso Caveoso where it is possible to admire elegant palaces and ancient manors. Passengers will reach Piazza San Pietro Caveoso and they will visit "Casa-Grotta", a typical example of the ancient dwellings of Matera: they will be able to see and understand how people used to live in the past in such peculiar houses.
Lunch-break is provided in a typical restaurant of the city "Il Terrazzino".

Buses depart from the Congress venue (Fiera del Levante Bari) at 9:00 hrs. Return at the starting point.

Matera

ALBEROBELLO
Thursday July 5, 2012
(Half-day excursion – only for pre-registred partecipants)

Passengers will move from Bari by GT bus with the local guide. Firstly they will cross the town to proceed along the national road in the middle of the Apulian countryside scattered with “trulli”.
Alberobello is an ancient site, typical for its houses made of stone, used in the past as animal stables and today transformed into family cottages where inhabitants run their trade activities. The visit will give passengers the opportunity to experience the reality of the village. These constructions named “trulli” date back of VI and VII centuries. The typical cone-shaped roof has made them so peculiar that Unesco considers the old part of the village as a World Heritage Site.

Buses depart from the Congress venue (Fiera del Levante Bari) at 9:00 hrs. Return at the starting point.
Duration: 5 hrs. about.

Alberobello

THE CITY HOSTING THE CONGRESS

The city of Bari is located in Southeastern Italy on the sunny and warm Adriatic coast. Bari, the capital of Regione Puglia, counts around 400,000 inhabitants and is a very active commercial and tourist port featuring several daily ferry connections with Greece, Albania, Montenegro and Croatia.
The city features an old medieval area rich in renowned monuments, including the Romanic Basilica of San Nicola and the Cathedral of the 11th-12th century, several other churches and buildings of various styles, narrow streets and small squares permeated by a suggestive atmosphere, and several small restaurants, pubs and bars. The active and crowded city centre surrounds the old city featuring long strait streets, several buildings of the 19th-20th century, including the central University building, the Ateneo, elegant shops, restaurants of all types, pubs and bars. A typical feature of Bari is the impressive boulevard along the seashore (*Lungomare*), about 2-km long, with the old small harbor still hosting small fishing boats.
The modern and wider city surrounds the city centre, and includes the scientific Campus of the University of Bari, several other University Faculties and Research Institutes, and the Technical University of Bari.
The beaches south and north of the city are renowned for their fine white sands often surrounded by pine woods and cliffs of calcareous rock. The province of Bari and the region of Puglia offer a number of beautiful towns, both on the coast and on the hills, rich of culture, monuments and architectural features, and an agricultural land rich of centuries-old olive trees, vineyards and orchards.

CONGRESS DATES AND VENUE

July 2nd - 6th 2012
Fiera Del Levante - Lungomare Starita
70123 Bari, Italy - www.fieradellevante.it

HOW TO REACH THE CONGRESS VENUE

By Plane

Bari is located in the Southern-East part of Italy, and is connected to Europe and the entire World through a large number of direct national and international flights and connections via Rome Fiumicino airport, Milan Malpensa airport or Milan Linate airport.
Bari-Palese "Karol Wojtyla" international airport is about 12 km from Bari. Taxi cab transportation is available from the airport and a blue coloured shuttle bus continuously connects the airport with the Main Railway Station at Piazza Aldo Moro. The shuttle bus leaves the Main Railway Station to Bari-Palese airport 80 minutes before every flight. Tickets can be bought on the bus.
Bari Airport: +39-080-5800200 - www.pugliairports.it

By Train

The Main Railway Station of Bari is connected by long distance express trains to Rome, Milan, Napoli, Brindisi, Lecce and Taranto. Bus n° 53 connects the Main Railway Station to the Congress Venue every 30 minutes, at the stop "Lungomare Starita".

By Car

From the north and west**:** highway A14, take the exit towards Bari Nord. Turn left and head towards "*Bari-Fiera*", continue along the beltway (S.S. 16), take the exit 4 towards *Bari-Fiera Porto.* Proceed to the entrance *"Italo-Orientale".*
From south: beltway (S.S 16) to "Foggia", take the exit 4 towards *Bari-Fiera-Porto*.
From east: highway A14, take the exit towards Bari Sud. Turn right and head towards "*Foggia*". On beltway (S.S 16), take the exit 4 towards "*Bari-Fiera-Porto*".

On Foot

Pedestrians can access to the *Fiera del Levante* area either from the *"Italo-Orientale"* or *"Monumentale Hall 2".*

Free Shuttle Service

Every day during the congress week:

- Shuttle buses will leave piazza Massari (at the Via Villari corner) to Fiera del Levante at 7.45 and 8.15.
- Shuttle buses will leave Fiera del Levante to piazza Massari from 19.00 to 20.00.

Public Transportation

You can easily reach Fiera del Levante by public transport. Fiera del Levante is well connected to the urban bus network.

Ticket prices are as follows:
Ticket (valid for 75 minutes) € 1.00
Ticket (valid for 100 minutes) € 1.20
Daily ticket € 2.20
Ticket (on-board) € 1.50
You can purchase tickets on the bus or from all AMTAB authorized resellers.

BUS LINE 6

Starting point **Piazza Aldo Moro (stop)**
Via De Cesare – Piazza Aldo Moro, in front of house number 56
Via Andrea da Bari – Piazza Umberto, in front of the "Ateneo" University
Via Andrea da Bari, at the Bank of Rome
Via Piccinni, 105 at the Comune (Seat of the municipality)
Piazza Garibaldi
Via Crispi, 7
Via Crispi, 59
Via De Cristoforis, in front of the "Tamoil" gas station
Via De Cristoforis, 29
Corso Mazzini, in front of the ex – bus terminal
Corso Della Carboneria, in front of the house number 8
Via Tommaso Fiore, 74
Via Napoli, 333/O
Via Napoli, in front of the house number 322/a
Via Napoli, 349/e
Via Di Maratona, at the Mascagni street corner

Final destination **Via Di Maratona Piscine Comunali, Terminal**

BUS LINE 22

Starting point **Piazza Aldo Moro (stop)**
Piazza Moro, at the De Cesare street corner
Via Andrea da Bari – Piazza Umberto in front of the "Ateneo" University
Via Andrea da Bari, at the Bank of Rome
Via Piccinni , 105 at the Comune (Seat of the municipality)
Piazza Massari, at the Prefecture
Piazza Massari, in front of the Intendenza di Finanza (Finance offices)
Corso Vittorio Veneto,in front of the Anagrafe (Registry office)
Corso Vittorio Veneto, in front of the Guardia di Finanza (Italian finance police)
Corso Vittorio Veneto, at the Brigata Regina street corner
Corso Vittorio Veneto, in front of the Nucleo regionale - Guardia di Finanza (the Regional core - Italian finance police)
Piazza Garibaldi ,42
Via Crispi ,7
Via Crispi ,59
Via De Cristoforis, in front of the "Tamoil" gas station
Via De Cristoforis ,29
Corso Mazzini, in front of the ex – bus terminal
Via Brigata Regina, 75
Via Napoli, 299
Via Napoli, 329L
Via Napoli, 333/O
Via Caracciolo, at the Mercato Generale (city market)
Via Caracciolo, in front of the house number 30/A
Corso Vittorio Veneto, in front of the Acquedotto pugliese (Apulian Aqueduct)

Final destination **Lungomare Starita, Adriatico street corner (CUS)**

BUS LINE 27

Starting point **Piazza Moro (stop)**

Via De Cesare - Piazza Moro, in front of the house number 56
Via Andrea da Bari – Piazza Umberto, in front of the "Ateneo" University
Via Andrea da Bari, at the Bank of Rome
Via Piccinni, 105 at the Comune (Seat of the municipality)
Piazza Massari, at the Prefecture
Piazza Massari, in front of the Intendenza di Finanza (Finance offices)
Corso Vittorio Veneto,in front of the Anagrafe (Registry office)
Corso Vittorio Veneto, in front of the Guardia di Finanza (Italian finance police)
Corso Vittorio Veneto, at the Brigata Regina street corner
Corso Vittorio Veneto, in front of the Nucleo regionale - Guardia di Finanza (the Regional core - Italian finance police)
Corso Vittorio Veneto, in front of the Acquedotto pugliese (Apulian Aqueduct)

Final destination **Lungomare Starita, Adriatico street corner (CUS)**

BUS LINE 35

Starting point **Corso Cavour, Camera di commercio (bus station)**

Via Piccinni, 9
Via Piccinni, 105 at the Comune (Seat of the municipality)
Piazza Garibaldi, 42
Via Crispi, 7
Via Crispi, 59
Via De Cristoforis, in front of the "Tamoil" gas station
Via De Cristoforis, 29
Corso Mazzini, in front of the ex – bus terminal
Corso Della Carboneria, in front of the house number 8
Via Tommaso Fiore, 74
Via Napoli, 333/O
Via Napoli, in front of the house number 322/a
Via Napoli, 349/e
Via Di Maratona, at the Mascagni street corner

Final destination **Via Di Maratona Piscine Comunali, Terminal**

BUS LINE 53

Starting point **Piazza Moro (bus station)**

Piazza Moro ,Terminal
Via Andrea da Bari – Piazza Umberto, in front of the "Ateneo" University
Via Andrea da Bari, at the Bank of Rome
Via Piccinni, 105 at the Comune (Seat of the municipality)
Piazza Garibaldi, 42
Via Crispi, 7
Via Crispi, 59
Via De Cristoforis, in front of the "Tamoil" gas station
Via De Cristoforis, 29
Corso Mazzini, in front of the ex - terminal
Via Brigata Regina, 75
Via Napoli 299
Via Napoli, 329L
Via Napoli, 333/O
Via Napoli, in front of the house numebr 322/a
Via Napoli, 349/e
Via Di Maratona, at the Mascagni street corner
Viale Vittorio Emanuele Orlando, at the Acquedotto pugliese (Apulian Aqueduct)

Final destination **Lungomare Starita, Adriatico street corner (CUS)**

OFFICIAL CONGRESS LANGUAGE

The Official Congress language is English. No simultaneous translation will be provided.

REGISTRATION DESK

Opening hours:
From Monday 2nd July to Friday 6th July – 08.00 – 18.00 Pavilion 10 (first floor)

AUDIOVISUAL EQUIPMENTS

Lecture Room Equipment

- Beamer;
- Notebook for the upload of presentations (USB Flash Drive, DVD, CD);
- VGA Panel to connect the personal notebook/MacBook with the beamer;
- Presentation timer with displays for presenter and chairperson;
- Wireless hand-held discussion microphones;
- Fixed microphones.

The notebook in each lecture room is equipped with the following software:

- Windows XP;
- MS Office 2010 (Power Point, Word);
- OpenOffice 3.3.0;
- Adobe Reader X;
- Internet Explorer 8;
- Windows Media Player 11;
- Real Player SP 14.0.2;
- QuickTime;
- VLC media player 1.1.9;
- Adobe Flash Player 10.2;

Slide Center

The PC Tower is equipped with the following software:

- Windows XP;
- MS Office 2010 (Power Point, Word);
- OpenOffice 3.3.0;
- Adobe Reader X;
- Internet Explorer 8;
- Windows Media Player 11;
- Real Player SP 14.0.2;
- QuickTime;
- VLC media player 1.1.9;
- Adobe Flash Player 10.2;

EXHIBITION AREA

Participants are invited to visit the exhibition area (Pavillon 9), where business operators will present and promote their products.

COFFEE POINTS

Two tickets per day will be provided to each participant at the registration desk.

MEALS

At lunchtime, “La Caravella” restaurant located in front of pavilion 9 will offer a variety of set menu.

Lunch-tickets will be available at the price of € 15,00 (one ticket includes first course, second course, side dish and dessert) at the registration desk (only cash or traveler cheques accepted).

CASH BAR

A cash bar with a variety of drinks and snacks will be available in the catering area (pavillon 9) (only cash or traveler cheques accepted).

BADGES AND CONGRESS KIT

Name badges and congress kit will be provided on-site to all registered delegates at the Congress registration desk.

ACCESS SECURITY

For security reasons identification badges are mandatory for participants and accompanying persons and will be required for admission to all sessions and tour programmes. Badges should be worn visibly throughout the entire period of the congress.

CERTIFICATE OF ATTENDANCE

A certificate of attendance will be included in the congress kit.

INTERNET

Free Wi-Fi Internet access will be available at the Congress Venue (pavilion 9).

MESSAGE BOARDS

Message boards will be available in pavilion 9.

PARKING AREA

For participants arriving by car, at the *"Italo-Orientale"* "entrance, a large parking area at the Congress Venue will be available free of charge for the whole Congress period.

LOST PROPERTY

All participants are kindly requested to report immediately any lost or unattended items to the Congress staff. Should you lose anything while at the Congress Centre, please inquire at the Congress registration desk.

USEFUL INFORMATION

TIME

Italy is one hour ahead Greenwich Mean Time (GMT). Difference with world major cities are London: -1 hour; New York City: -6 hours; Sydney: + 10 hours; Tokyo: + 8 hours.

CLIMATE

The weather in *Bari* in July is generally warm. Average temperatures range from 20°C to 30°C (68 °F to 86 °F), and no rain may be expected.

TELEPHONE

In order to make phone calls in the city or to another city, the phone number must be preceded by the area code number. To call abroad, dial 00 + the country code + city (area) code + phone number.

MOBILE PHONES

In Italy, mobile phones use the following frequency bands: GSM-900/1800 and 3G 2100. An overview of the available networks can be found at: www.gsmworld.com/roaming/gsminfo/cou_it.shtml.

SHOPPING

Stores, shopping centres and most businesses are generally open from 09.00 to 13.00 and from 16.00 to 20.00 from Monday to Saturday.

ELECTRICITY

Voltage in Italy is 220V, three round pin plug. For different appliances an adaptor and /or transformer should be used.

SMOKING POLICY

Smoking is banned in all indoor public places and in all working places.

TIPPING

Service is included in the bill in bars and restaurants. Tipping is not mandatory but is welcome.

TAXES

Like most other European countries, Italy imposes a value added tax (VAT) on goods and services purchased in the country. This tax is known as IVA.
It is normally included in the price of most goods and services. Generally the rate stands at 21% of the sale price and 10% for catering services.

INSURANCE

It is strongly recommended that Participants purchase adequate coverage for health, travel and private liability insurance before departing their home countries.
The organisers will not accept responsibility for personal injury, loss or damage to private, personal property of Congress Participants and/or Accompanying persons.

SAFETY

Visitor safety is generally adequate. However, like in many other European and World cities, you have always to use common sense. Pick pocketing in heavily visited tourist areas or in public transport lines may be of concern. Some basic precautionary measures should always be taken. You are suggested not to carry important items when moving to/from the Congress Venue to the city, leave documents and important quantity of money in the hotel safety box, and remove your name badge when leaving the congress.

CASH DISPENSERS (ATMS)

ATMs or Cash dispensers in Italy are known as "Bancomat", and can be found in most places, like banks, most post offices, shopping centres, at the airport and at the Congress Venue. They are open 7 days a week, 24 hours a day and allow you to withdraw money in € EURO. All cash dispensers accept major international cards (Visa, Eurocard, Mastercard, Cartasì, Maestro, Diners Club and American Express). If you doubt about the compatibility or the banking systems, contact your Credit Card Company or local bank. It is advisable to find out from your bank the maximum daily amount that can be withdrawn in cash and then convert this sum into Euros; this will help you to budget your money.

CREDIT CARDS

Major credit cards are widely accepted in Italy, namely Visa, Eurocard, MasterCard, American Express and Diners Club.

BANKS, CURRENCY & FOREIGN EXCHANGE

Italy's official currency is the Euro. Currency can be exchanged at all local banks. These are open weekdays from 8.30 to 13.30 and from 14.45 to 15.45 (afternoon opening may vary depending on the bank). Most hotels, restaurants and shops accept major credit cards.

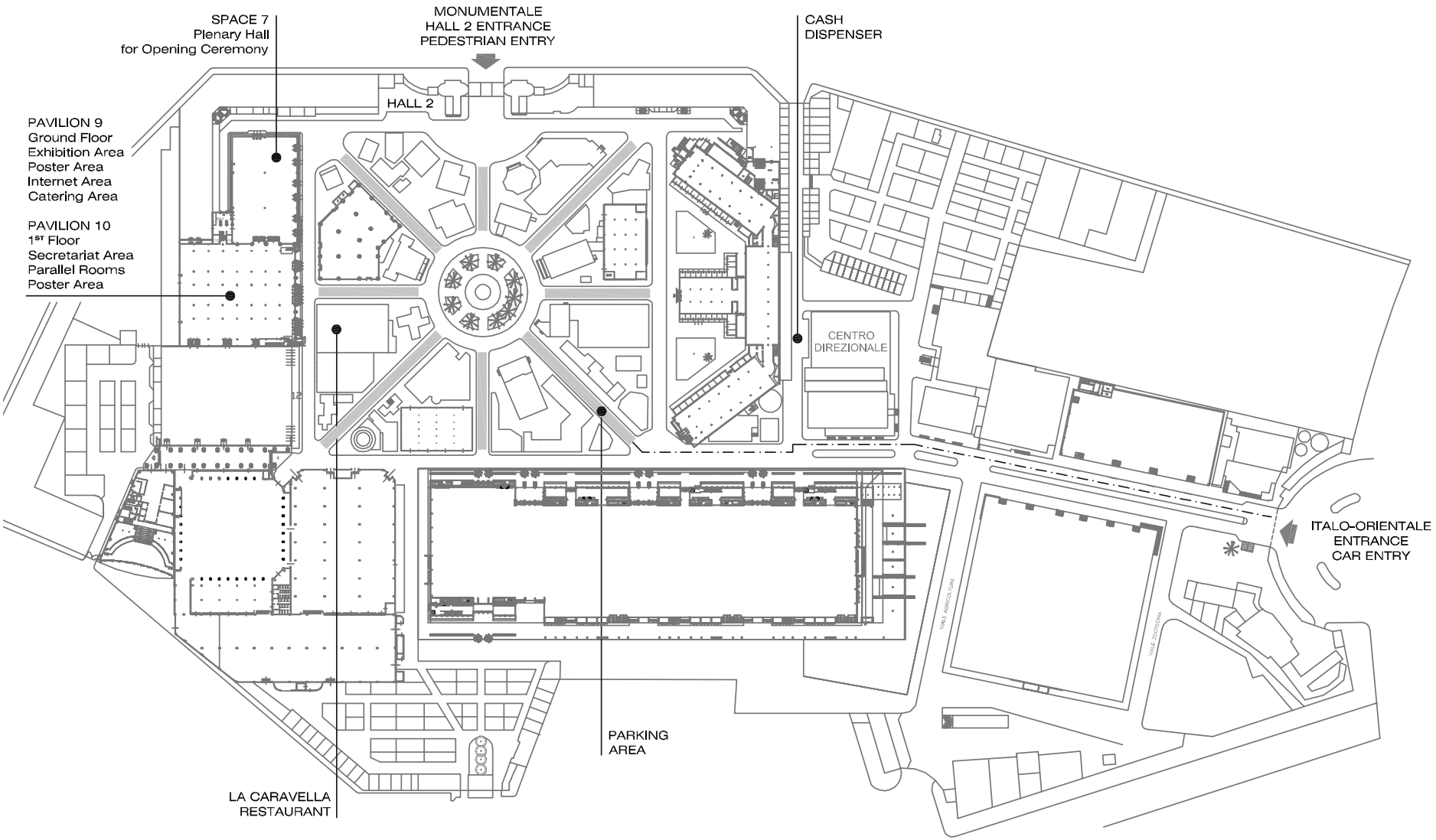
TAXI SERVICES

Radio Taxi: phone +39-080-5543333
Apulia Taxi: phone +39-080-5346666

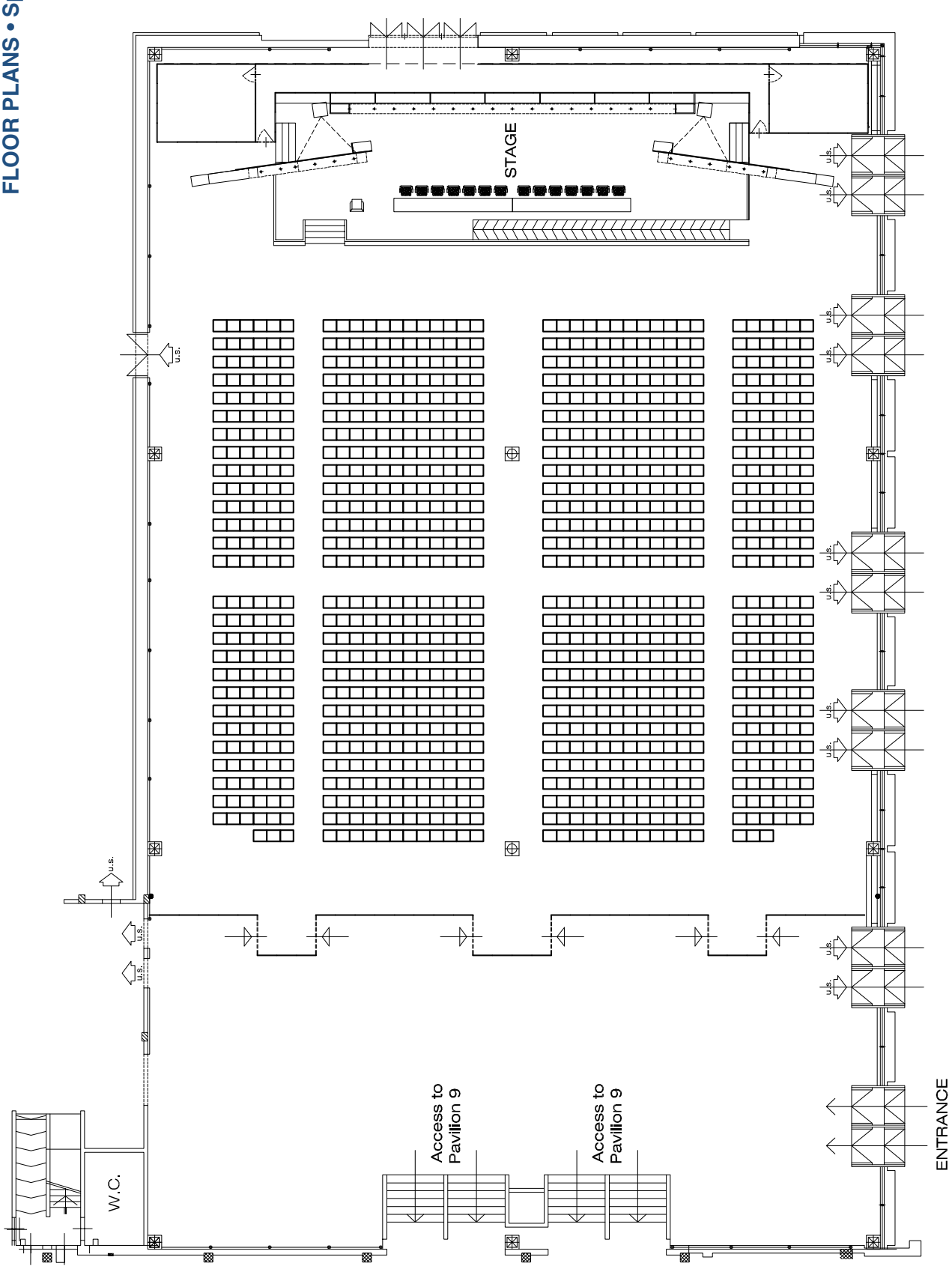
EMERGENCIES TELEPHONE NUMBERS

Police 113
Carabinieri 112
Medical Emergency First Aid 118

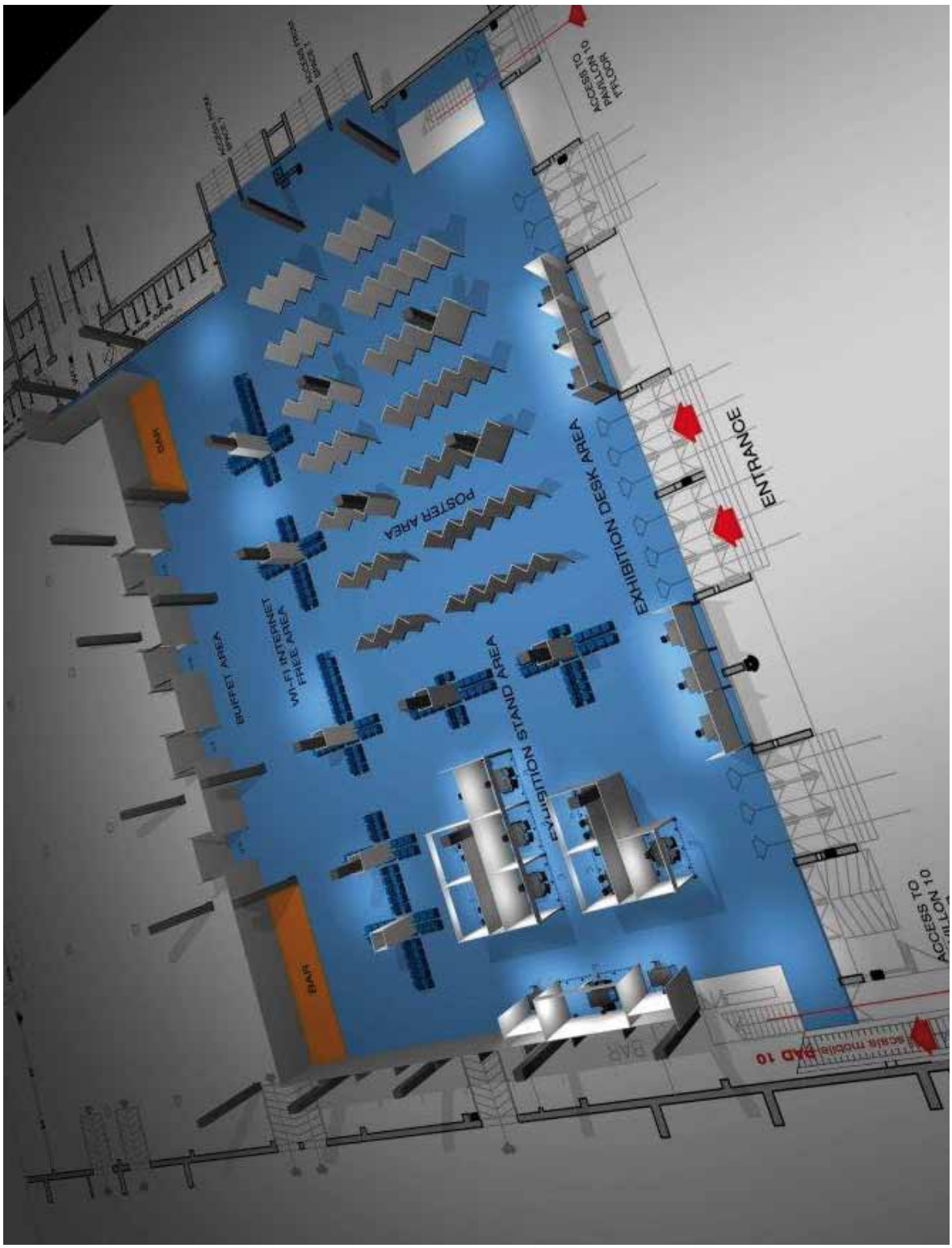
GENERAL MAP OF THE VENUE



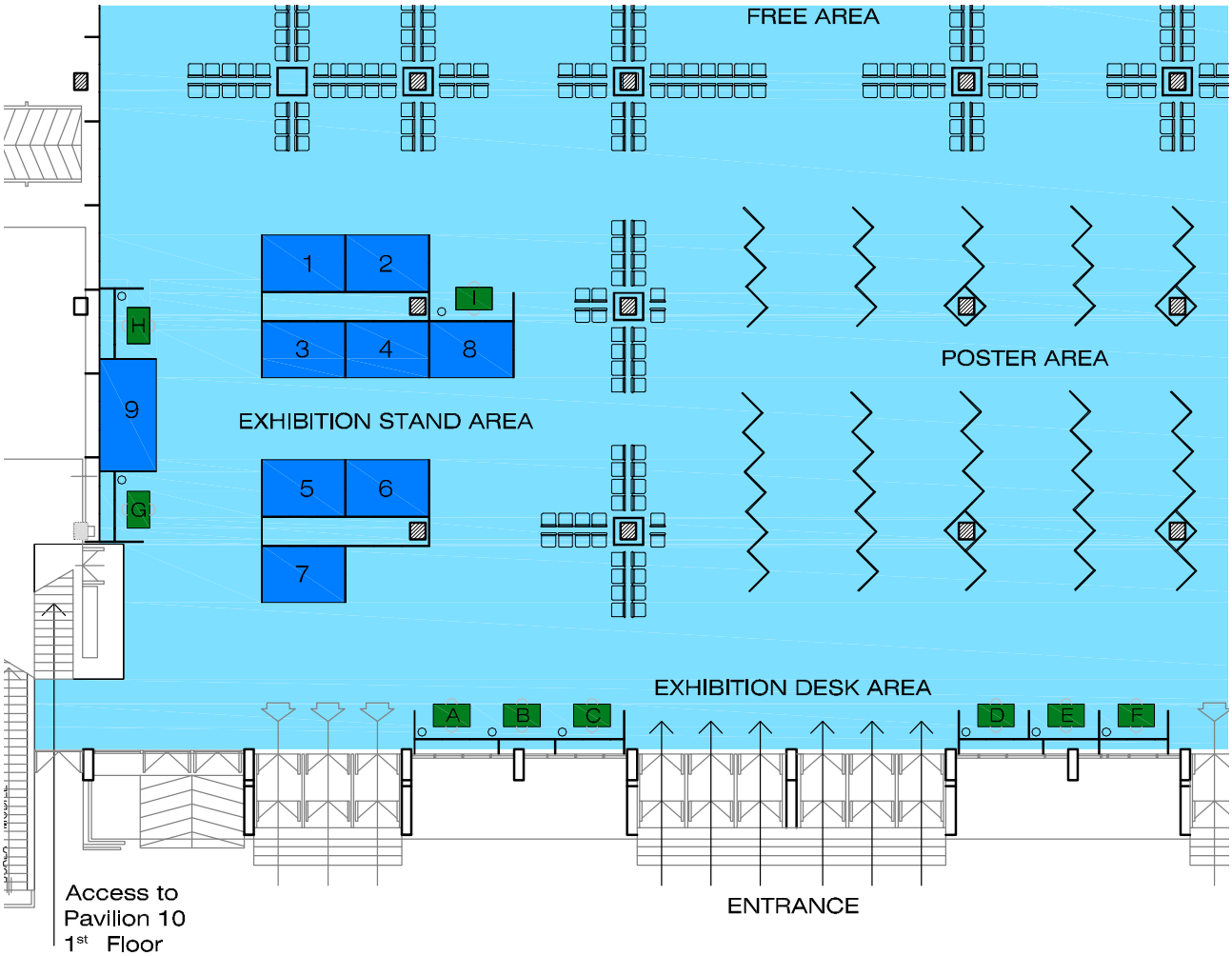
FLOOR PLANS • Spazio 7



FLOOR PLANS • Pavilion 9 (Ground Floor)

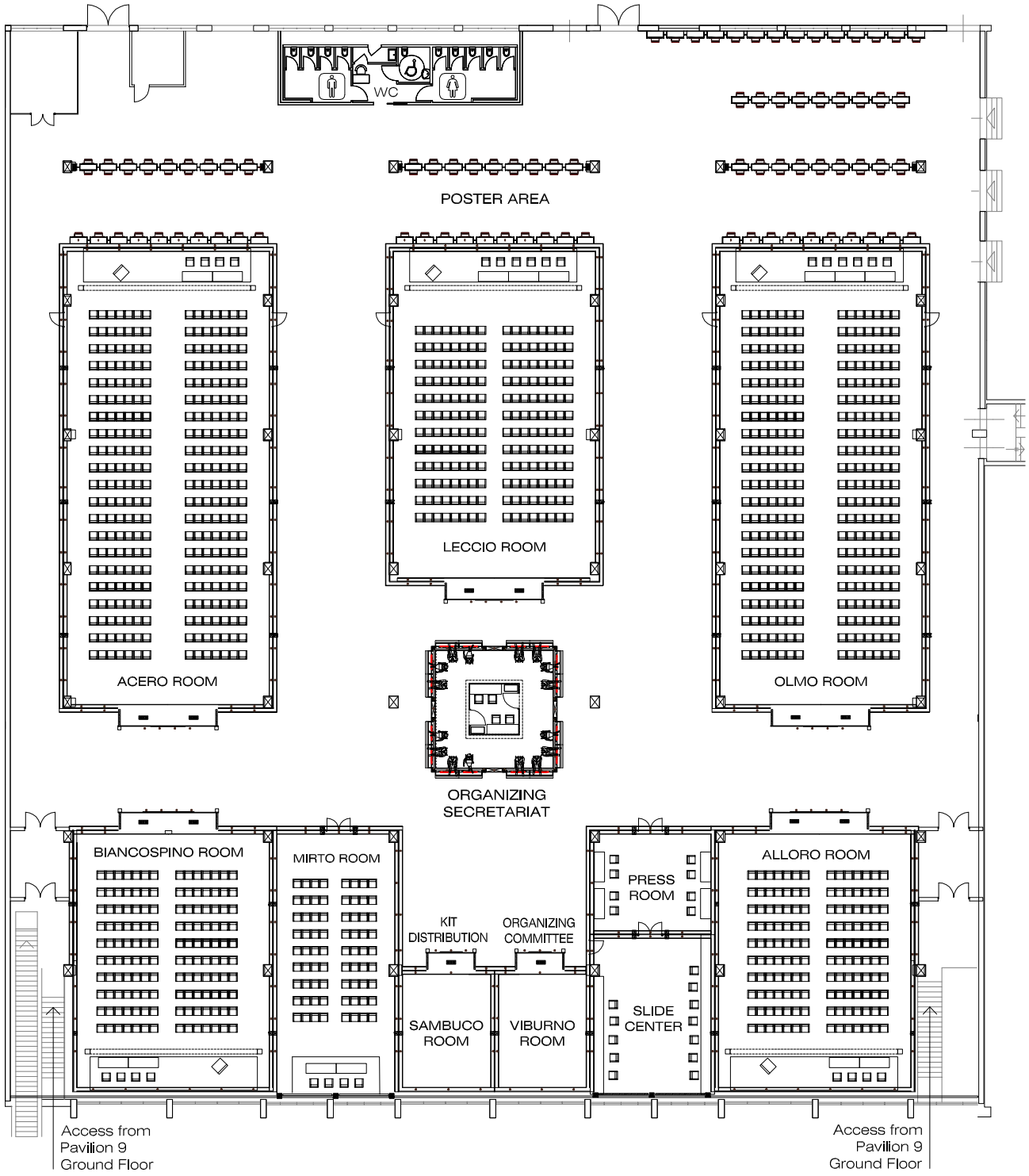


FLOOR PLANS • Pavilion 9 - Exhibition Area



Exhibitors Stand	N	Exhibitors Desk	Letter
ADC BioScientific Ltd.	6	Alfatest Srl	H
Decagon Devices	1	Association Française pour l'Étude du Sol" (AFES)	E
Delta-T Devices	5	Campbell Scientific	A
Eijkelkamp	7	Ecosearch Srl	B
Elementar	8	Elsevier	G
European Commission Joint Research Centre	9	Korean Society of Soil Science and Fertilizer (KSSSF)	F
UGT GmbH	4	LI-COR Biosciences	C
UMS GmbH	2	Micromeritics	D
Wiley - Blackwell	3	Springer	I

FLOOR PLANS • Pavilion 10 (First Floor)



Joint Research Centre

The European Commission's in-house science service

As the Commission's in-house science service, the Joint Research Centre's mission is to provide EU policies with independent, evidence-based scientific and technical support throughout the whole policy cycle.

Working in close cooperation with policy Directorates-General, the JRC addresses key societal challenges while stimulating innovation through developing new methods, tools and standards, and sharing its know-how with the Member States, the scientific community and international partners.

Soil data and information are relevant for a number of EU policy areas: agriculture, soil protection, water protection, nature protection, development policy, health and sustainable development. The EU Thematic Strategy for Soil Protection addresses these different policy areas in a coherent In addition, a number of global multilateral agreements which have been ratified by the European Community (UNFCCC, CBD, UNCCD) demand an increasing amount of soil data and information: climate change, biodiversity and desertification are global issues that are strongly related to soil degradation phenomena at the global scale.

Located in Ispra, Italy, the JRC SOIL Action is the main repository of soil data and information at European level and provides high-level analysis and assessments on the status and trends of soils in Europe and in the world. Staffed by a team of soil scientists, agricultural scientists, geographers and foresters, and with a strong competence in spatial analysis and geostatistics/GIS, it performs top-level research activities in support of EU soil related policy areas.

Through the establishment of the European Soil Data Centre, the JRC SOIL Action provides a single focal point for soil data and information for the Commission and other EU bodies and international organisations.

Through the European Soil Bureau Network, EIONET-SOIL FP7 Research Projects, public forums and numerous bilateral partnerships, the Soil Action collaborates with soil scientists, the education sector, the public and policy makers across Europe and beyond.

During the 2012 Eurosoil meeting, we would be please to meet you at our stand in the Exhibition Area or alternatively you can visit the European Soil Portal on http://eusoils.jrc.ec.europa.eu/

Please join the ESBN Business Meeting (BM3) in room BIANCOSPINO at 1830 on Tuesday evening for the launch of the European Node of the Global Soil Partnership (in collaboration with FAO).

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CONTACTS

SCIENTIFIC CONTACTS

Prof. Nicola Senesi

President of EUROSOIL 2012 and ECSSS
University of Bari "Aldo Moro"
Dipartimento di Biologia e Chimica Agroforestale e Ambientale
Via G. Amendola 165/A
70126 BARI - ITALY
Tel.: +39-080-5442853
Fax: +39-080-5442850
e-mail: senesi@agr.uniba.it

Prof. Teodoro Miano
Vice-President of EUROSOIL 2012 and ECSSS
University of Bari "Aldo Moro"
Dipartimento di Biologia e Chimica Agroforestale e Ambientale
Via G. Amendola 165/A
70126 BARI - ITALY
Tel.: +39-080-5442857
Fax: +39-080-5442850
e-mail: miano@agr.uniba.it

Dr. Claudio Cocozza
Scientific Secretariat EUROSOIL2012 and ECSSS
University of Bari "Aldo Moro"
Dipartimento di Biologia e Chimica Agroforestale e Ambientale
Via G. Amendola 165/A
70126 BARI - ITALY
Tel.: +39-080-5442740
Fax: +39-080-5442850
e-mail: c.cocozza@agr.uniba.it

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Eventi & Relazioni Pubbliche

Society of Quality Management System
Via Roberto da Bari, 108, Bari 70122
Tel.: +39-080-5218556; Fax: +39-080-5245166
Piazza Campitelli, 1, Roma 00186
e-mail: info@eurosoil2012.eu - Website: www.selectocongressi.com

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