

Coimbra, Portugal, 06-10 August 2012



SCIENTIFIC PROGRAMME

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- Welcome Message-

Dear all,

On behalf of the whole Organizing Committee we would like to welcome you to the XVI International Colloquium of Soil Zoology, which is held in conjunction with the XIII International Colloquium on Apterygota and, for the first time, also together with the X International Symposium on Enchytraeidae. We hope that you had a good travel to Coimbra and that you will enjoy the following days!

There are indeed some good reasons for having a real good time, first of all, the marvelous scientific program: as usually, we will start the first day with a Session on Biodiversity and Monitoring, focusing especially on recent developments in getting an idea how many “species” are living in the soil – and how European agencies and institutions, in fact our society, will grasp this huge diversity. The next two days will be dominated by ecological topics, starting with tropical soil ecology, thereby taking over the baton from our friends and colleagues who organized the last ICSZ in Curitiba (Brazil), in 2008. Actually, besides contributions on processes and interactions in soil, topics on new challenges for soil ecology, especially the Ecosystem Services Approach, will dominate the whole Thursday. Finally, we will have a closer look at soil ecotoxicology, again widening our approach: besides classical stressors such as chemicals the fact that in reality various stressors, e.g. emerging substances or climate change, affect soil animals simultaneously will be acknowledged. Be aware that each session will be started by a keynote speaker, and we are proud to announce that we could convince eight high-profile scientists to accept the challenge to address the eight session topics in a thought-provoking way. Together with 54 individual presentations and, not to forget, 145 posters we will get a great overview on the state-of-the art in soil zoology!

However, this picture is not complete without an invitation to enjoy the city of Coimbra and especially its university, the oldest in Portugal (founded already in 1290)! Be aware that the most interesting buildings, surrounded by an impressive number of bars and restaurants, are not at our current meeting place but in the Old Town, up the hill.

Last but not least we want to thank all those people who made this conference possible: the members of the Organizing Committee, the Chair Persons and all the students who did already a wonderful job during the last months and who will continue to do so the upcoming days. Representing them we would like to highlight just two names: Sónia Chelinho and Tiago Natal-da-Luz.

Finally, also many thanks to the Sponsors of our conference!

Paulo Sousa and Jörg Römcke

- Acknowledgements-

The organizing and scientific committees are pleased to acknowledge the institutions that generously granted or materially helped for this XVI International Colloquium on Soil Zoology and Biology.

Host institutions



Sponsors



- General Information-

Colloquium site

The XVI ICSZ Colloquium will be held at the central building of the Faculty of Science and Technology of the University of Coimbra (FCTUC) headquarters, located in Campus II (Pinhal de Marrocos – see map at end). Keynote and oral presentations will take place in the Auditorium (2nd floor); posters will be displayed in a close-by room which will be signalized.

Registration

All participants and accompanying persons need to register immediately after arrival. This is an important point as only participants wearing their colloquium badges will be accepted to enter in the conference room and to participate to the full scientific program. The registration office will be located just before the access stairs to the Auditorium and will be opened on Monday, August 6th, from 8:00am to 6:00pm and every other day from 9:00am to 6:00pm.

Certificate of attendance will be delivered along with all the Colloquium documentation upon registration.

Presentation of contributions

Three types of contributions will be presented during this Colloquium:

Keynote presentations (30 minutes, including time for comments and questions) will begin each session, addressing its topic in a thought-provoking way.

Oral presentations (15 minutes, including time for comments and questions) will be divided in 4 sessions, as listed in the scientific program, where information about each session's Chairman is also provided.

Poster presentations will take place in specific rooms, which will be indicated and pointed out at the beginning of the Colloquium.

For keynote and oral presentations, please contact the Secretariat to hand your PowerPoint or Open Office presentations in advance, in order to avoid any problem of incompatibility between different software versions from the ones installed on the Colloquium computers.

Posters should be displayed on the provided holders, which will be identified with the code indicated on the scientific program. Poster presenters are asked to hang their posters in time for their specified session. Posters for Session 1 ("Soil Biodiversity and Monitoring") and Session 2 ("Soil Ecology") can be hung at any moment from the morning of Monday, August 6th, and should be removed by the end of Tuesday, August 7th. Posters for Session 3 ("Soil

Function / Services”) and Session 4 (“Soil Ecotoxicology and Other Stressors”) can be hung at any moment from the morning of Thursday, August 9th, and should be removed by the end of the Congress.

Computer Room and Internet Access

A computer room (with internet access) will be available and signalized during the Colloquium. However, we encourage participants to bring their own laptops if possible - wireless internet connection access codes will be provided upon registration.

Coffee breaks / Lunches

Morning and afternoon coffee breaks as well as lunches will be provided in a nearby room to the Auditorium (which will be signalized). Times for breaks are noted on each day of the Colloquium Scientific Program.

Welcome Reception

A welcome reception will be offered to participants on the first day of the Colloquium (Monday, August 6th) at 6:30pm. This reception will take place at Pavilhão Centro de Portugal, which is located at one of Coimbra’s parks (Parque Verde do Mondego – see map at end). Participants will have the opportunity to taste some of the local delicacies as well as to get in touch with Coimbra’s cultural heritage and traditions.

Transport from the Colloquium site to the welcome reception venue will be available by means of a shuttle bus (see section “Transportation” for details).

Colloquium dinner

The Colloquium dinner will be held on Thursday, August 9th, at 8:30pm in Quinta do Loreto (see map below). The dinner menu will include an assortment of Portuguese delicacies, along with European cuisine dishes. If you have special dietary requests, please inform so during registration.

Transport from downtown Coimbra to the Colloquium dinner site will be available by means of a shuttle bus (see section “Transportation” for details).

Transportation

The Colloquium site can be reached by bus (line 38): this line passes by Portagem (downtown Coimbra, close to Astoria and Ibis Hotels) and stops right outside the Colloquium site in Campus II. This line is operating on a holiday timetable, with very limited schedule options: buses pass by Portagem at 8:05am / 9:00am (approximately) in the morning and leave Campus II at 6:30pm / 7:25pm in the afternoon. Bus tickets cost €1.60 if bought directly from the bus driver; however, rechargeable tickets can be purchased in advance and “charged” with as many trips as desired, starting at 3 trips (€2.20 + €0.50 for the rechargeable ticket) and up to a maximum of 11 trips (6.40€ + €0.50 for the rechargeable ticket).

Taxi services are available near Coimbra’s Train Stations, the main bus terminal and most tourist points. It is also possible to call for a taxi (for an extra fee of €0.80) on (+351) 239499090; the fare from almost every hotel in Coimbra to the Colloquium site is around €5/€6.

Alternatively, there will be a shuttle bus (identified as “XVI ICSZ BUS”) available for participants travelling to/from the Colloquium. This bus will be free of charge for participants wearing their name badge (except for Monday, August 6th morning). Information on the timetable and stops for this shuttle bus will be available at the Colloquium website (<http://icszcoimbra.com/>).

Things to remember

Most banks are open from 8.30am to 3pm, Monday to Friday.

Most shops are open from 9am to 1pm and 3pm to 7pm (working days). On Saturdays most shops close at 1pm, even though there are some open in the afternoon. Shopping Centers are open from 10am to 11pm or midnight, every day of the week.

Most pharmacies are open from 9am to 7pm and close at lunch time (from 1 to 3pm). Every day, a pharmacy is placed “on call”, meaning it will be available after all others close and until they open. Usually, two more pharmacies are pointed as “back-up” pharmacies. The list of “on call” and “back-up” pharmacies is posted on the window of every pharmacy.

Museums are open from 10am to 12.30pm and from 2pm to 5pm (closed on Mondays).

Post offices are open Monday to Friday from 8.30am to 6pm.

And last, but surely not the least... Coimbra is less than 50km away from the Atlantic shore - so why not enjoy your free day (Wednesday, August 8th) at the beach?

- Committees -

Scientific Committee

Paulo Sousa (Chair)	Portugal
Jörg Römbke (Vice-chair)	Germany
Andrey Zaytsev	Russia
Anna Rozen	Poland
David Russell	Germany
Gladys Stephenson	Canada
Gbenga Owojori	Nigeria
Geoff Baker	Australia
George Brown	Brazil
Lijbert Brussard	The Netherlands
Mac Callaham	USA
Mark Hassal	UK
Matty Berg	The Netherlands
Mónica Amorim	Portugal
Patrick Lavelle	France
Rachel Creamer	Ireland
Rüdiger Schmelz	Spain
Ruth Pereira	Portugal
Sara Mendes	Portugal
Sónia Chelinho	Portugal
Tiago Natal-da-Luz	Portugal

Local Organizing Committee

José Paulo Sousa (Chair)	University of Coimbra, Portugal
Jörg Römbke (Vice-chair)	Oekotoxikologie GmbH, Germany
Alberto Ferreira	University of Coimbra, Portugal
António Alves da Silva	University of Coimbra, Portugal
Carla Pereira	University of Coimbra, Portugal
Dalila Costa	University of Coimbra, Portugal
Henrique Pereira	University of Coimbra, Portugal
Joana Alves	University of Coimbra, Portugal
Osmar Klauberger Filho	University of Santa Catarina, Brazil
Pedro Martins	University of Coimbra, Portugal
Sara Mendes	University of Coimbra, Portugal
Sónia Chelinho	University of Coimbra, Portugal
Tiago Natal-da-Luz	University of Coimbra, Portugal

PhD and MSc students

- Scientific and Social Programs -

MONDAY, August 6th

08:00h - 10:00h	Registration	
10:00h - 10:30h	Opening ceremony	
	Soil Biodiversity and Monitoring Session Chairman: David Russell, Rüdiger Schmelz.	
10:30h - 11:00h	<i>Barcoding the underground – recent advances and new prospects for the study of soil animal biodiversity</i> THIBAUD DECAËNS, DAVID PORCO, SAMUEL JAMES, M. ALEXANDER SMITH, RODOLPHE ROUGERIE, MEHRDAD HAJIBABAEI.	MO_SBM_KN1
11:00h - 11:30h	Coffee break + Posters	
11:30h - 11:45h	<i>Shaking species delimitation in Collembola: cryptic diversity cases among common springtails unveiled by DNA barcoding</i> DAVID PORCO, ANNE BEDOS, PENELOPE GREENSLADE, CHARLENE JANION, DARIUSZ SKARZYNSKI, MARK STEVENS, LOUIS DEHARVENG.	MO_SBM_O1
11:45h - 12:00h	<i>Biodiversity of soil macrofauna as indicator for a sustainable development in South Tyrol, Italy (Project SOILDIV)</i> THOMAS PEHAM, ERWIN MEYER, JOHANNES RÜDISSE, ERICH TASSER, ULRIKE TAPPEINER.	MO_SBM_O2
12:00h - 12:15h	<i>The role of human activity in the introduction of non-native soil species and in the distribution of soil organisms within the Antarctic Peninsula</i> DAVID RUSSELL, ALEXANDER BRUCKNER, AXEL CHRISTIAN, FRITZ HERTEL, KARIN HOHBERG, SANDRA J. MCINNES, VOLKER OTTE, MIKHAIL POTAPOV.	MO_SBM_O3
12:15h - 12:30h	<i>Effect of spatiotemporal landscape structure on collembolan local diversity</i> CHARLÈNE HEINIGER, FLORENCE DUBS, SEBASTIEN BAROT, JEAN-FRANÇOIS PONGE, SANDRINE SALMON, DAVID CARMIGNAC.	MO_SBM_O4
12:30h - 12:45h	<i>Earthworms in permanent soil monitoring sites – state of knowledge, database and concept for the improvement of a soil biodiversity assessment within the German National Strategy on Biodiversity</i> STEPHAN JÄNSCH, JÖRG RÖMBKE, HUBERT HÖFER, FRANZ HORAK, MARTINA ROß-NICKOLL, DAVID RUSSELL, ANDREAS TOSCHKI.	MO_SBM_O5
12:45h - 13:00h	<i>Oribatid mites in permanent soil monitoring sites – state of knowledge, database and concept for the improvement of a soil biodiversity assessment within the German National Strategy on Biodiversity</i> HUBERT HÖFER, ANDREAS TOSCHKI, FRANZ HORAK, DAVID RUSSELL, MARTINA ROSS-NICKOLL, JÖRG RÖMBKE.	MO_SBM_O6

MONDAY, August 6th - Soil Biodiversity and Monitoring

13:00h - 14:00h **Lunch**

Soil Biodiversity and Monitoring Session

Chairman: Andrey Zaytsev, Rachel Creamer.

14:00h - 14:30h *Europe under the Microscope: from Data to Directives* **MO_SBM_KN2**
RACHEL CREAMER.

14:30h - 14:45h *Soil fauna used as bioindicators for soil monitoring, risk assessment and soil characterization. Results from the French national "Bioindicators Program"* **MO_SBM_07**
MICKAEL HEDDE, ANTONIO BISPO, DANIEL CLUZEAU, MICHAEL COEURDASSIER, JÉRÔME CORTET, ANNETTE DE VAUFLEURY, MURIEL GUERNION, BENJAMIN PAUGET, NURIA RUIZ-CAMACHO, FRANCK VANDENBULCKE, CÉCILE VILLENAVE, AUDE ALAPHILIPPE, THIERRY BEGUIRISTAIN, FRANCIS DOUAY, OLIVIER FAURE, ADNANE HITMI, SABINE HOUOT, MARC LEGRAS, JEAN-FRANÇOIS VIAN, SEBASTIEN CONIL, LAURENCE ROUGÉ, GUÉNOLA PÉRÈS.

14:45h - 15:00h *Soil biodiversity monitoring in Europe; linking biological indicators to soil ecosystem services* **MO_SBM_08**
MIRIAM PULLEMAN, RACHEL CREAMER, UTE HAMER, JOHANNES HELDER, CÉLINE PELOSI, GUÉNOLA PÉRÈS, MICHEL RUTGERS.

15:00h - 15:15h *Monitoring soil biodiversity in Portuguese forests: operationalizing the use of soil macrofauna as an indicator tool* **MO_SBM_09**
SARA MENDES, ARTUR SERRANO, SUSANA DIAS, ALBERTO FERREIRA, JOSÉ PAULO SOUSA.

15:15h - 15:30h *Macro-invertebrates on soil ecosystem: assessing the impacts of environmental changes using a synthetic index of soil quality (IBQS)* **MO_SBM_O10**
NURIA RUIZ, PATRICK LAVELLE, ANTONIO BISPO, GUÉNOLA PERES, DANIEL CLUZEAU, AUDE ALAPHILIPPE, THIERRY BEGUIRISTAIN, FRANCIS DOUAY, OLIVIER FAURE, ADNANE HITMI.

15:30h - 16:00h **Coffee break + Posters**

16:00h - 16:15h *Earthworms in different land-use systems in Santa Catarina, Brazil* **MO_SBM_O11**
MARIE BARTZ, GEORGE BROWN, OSMAR KLAUBERG FILHO, MARCIO GONÇALVES DA ROSA, MARCOS LOCATELLI, RENATO ORSO, THIBAUD DECAËNS, DILMAR BARETTA.

16:15h - 16:30h *The mite (Acarina) fauna of Irish forests - a study of the relative contribution of location, forest type and microhabitat* **MO_SBM_O12**
THOMAS BOLGER, JULIO ARROYO, JOAN KENNY.

16:30h - 16:45h *Behavioural observations on Opilioacarids mites (Acari: Parasitiformes)* **MO_SBM_O13**
MARIA MAGDALENA VÁZQUEZ, ELVIA ALAMILLA, DANIEL MAY.

16:45h - 17:00h *Food offer in the extreme microhabitats - the ecological factor of the invasion into microhabitats and settlement of them* **MO_SBM_O14**
JAROSLAV SMRŽ.

17:00h - 18:00h

Poster sessions

- Knowledge of xylophagous box mites (Acari, Oribatida) in Palaeartic* **MO_SBM_P1**
WOJCIECH NIEDBAŁA.
- Effect of tillage and agricultural management on mites of marsh soil* **MO_SBM_P2**
LIANG CHANG, DONG LIU, DONGHUI WU.
- Prostigmatid mites from Tropical Forests, Coastal Dunes and Mangrove Forest in Cozumel, Quintana Roo, México* **MO_SBM_P3**
MARIA MAGDALENA VÁZQUEZ, IGNACIO VÁZQUEZ, MERCEDES LÓPEZ-CAMPOS.
- Distribution of soil Gamasina mites (Acari, Mesostigmata) on a seacoast-inland gradient in a coastal meadow system in Latvia* **MO_SBM_P4**
INETA SALMANE, VIESTURS MELECIS.
- Population genetics study of earthworms shows contrasted dispersal patterns of endogeic species at fine and regional scales* **MO_SBM_P5**
LISE DUPONT, MAGALLY TORRES-LEGUIZAMON, YSOLINE GRÉSILLE, PEGGY RENÉ-CORAIL, JÉRÔME MATHIEU.
- Phylogenetic structure of functional diversity: investigation of phylogenetic relationships and functional traits of earthworms* **MO_SBM_P6**
CHARLÈNE BRIARD, JIANG-PING QIU, MURIEL GUERNION, DANIEL CLUZEAU.
- Earthworm monitoring in a intensively used organic farm and immigration from adjacent hedges and flower strips* **MO_SBM_P7**
PASCAL QUERNER, SUSANNE PAPAJA, ALEXANDER BRUCKNER.
- Earthworm assemblages in vineyards under different production systems: from conventional to biological viticulture* **MO_SBM_P8**
VÁCLAV PIŽL.
- Functional traits to explain earthworm community changes under different cropping systems* **MO_SBM_P9**
BENJAMIN PEY, CÉLINE PELOSI, MICKAËL HEDDE.
- Assemblages of earthworms and collembolans in fen soil as affected by landslide* **MO_SBM_P10**
MARIA STERZYŃSKA, PAWEŁ NICIA, VÁCLAV PIŽL.
- Earthworm communities of Alpine grasslands affected by wild boar rooting and traditional livestock grazing changes in Central Pyrenees (Spain)* **MO_SBM_P11**
C. GUILLERMO BUENO, JUAN J. JIMÉNEZ.
- Genetic signature of accidental transfer of the peregrine earthworm *Pontoscolex corethrurus* in French Guiana* **MO_SBM_P12**
LISE DUPONT, THIBAUD DECAENS, EMMANUEL LAPIED, VINCENT CHASSANY, RAPHAEL MARICHAL, FLORENCE DUBS, MÉLANIE MAILLOT, VIRGINIE ROY.

MONDAY, August 6th - Soil Biodiversity and Monitoring

DNA barcoding to estimate underground biodiversity - a case study with earthworms in the Nouragues Research Station (French Guyana) **MO_SBM_P13**

THIBAUD DECAËNS, SAMUEL W. JAMES, VINCENT CHASSANY, LISE DUPONT, EMMANUEL LAPIED, RODOLPHE ROUGERIE, VIRGINIE ROY, DAVID PORCO.

The Earthworm Genus Zapotecia (Oligochaeta: Acanthodrilidae) in Mexico: genealogy, diversity and distribution **MO_SBM_P14**

GABRIELA CERVANTES, CARLOS FRAGOSO, SAMUEL JAMES, THIBAUD DECAËNS, DAVID PORCO.

Management of invasive earthworms, Amyntas agrestis, with prescribed fire in forests of the southeastern United States **MO_SBM_P15**

HIROSHI IKEDA, MAC CALLAHAM, JOSEPH O'BRIEN, BENJAMIN HORNSBY.

Morphological versus molecular evolution: different patterns within Hormogastridae earthworms **MO_SBM_P16**

MARTA NOVO, ROSA FERNÁNDEZ, MÓNICA GUTIÉRREZ-LÓPEZ, DOLORES TRIGO, ANA ALMODOVAR, DARÍO J. DÍAZ-COSÍN.

Effects of two earthworms from two ecological groups on organic matter dynamics of a constructed Technosol **MO_SBM_P17**

BENJAMIN PEY, JÉRÔME CORTET, FRANÇOISE WATTEAU, KEVIN CHEYNIER, CHRISTOPHE SCHWARTZ.

Trait-based approach to assess the impacts of reduced and conventional tillage practices on earthworm functional diversity: a multi-site comparison **MO_SBM_P18**

MURIEL GUERNION, YVAN CAPOWIEZ, CÉLINE PELOSI, MICHEL BERTRAND, HUBERT BOIZARD, DANIEL CLUZEAU, GUÉNOLA PÉRÈS, DENIS PIRON, BENJAMIN PEY, MICKAËL HEDDE.

Earthworms across Kansas: A citizen-science earthworm survey **MO_SBM_P19**

BRUCE SNYDER, MAC CALLAHAM.

Sampling efficiency for earthworms diversity survey **MO_SBM_P20**

MARIE BARTZ, THIBAUD DECAËNS, GEORGE BROWN, DILMAR BARETTA.

Earthworm populations in an altitudinal gradient (1000-1850m) of the Coastal Atlantic Rainforest, Brazil **MO_SBM_P21**

GUILHERME B.X. CARDOSO, HERLON NADOLNY, VICTOR TEDESCHI, ALEXANDER FEIJOO, SAMUEL W. JAMES, GEORGE G. BROWN.

Earthworm populations in native Araucaria forests, Araucaria and Pine plantations in Brazil **MO_SBM_P22**

PRISCILA M. DA FONSECA, ELIZA BUSCH, MAURÍCIO ZAGATTO, GUILHERME B. CARDOSO, RAUL M. CEZAR, ALEXANDER FEIJOO, SAMUEL W. JAMES, GEORGE G. BROWN.

Local variability of earthworm and mesofauna communities depending on soil tillage management **MO_SBM_P23**

ARIANE CHABERT, DENIS PIRON, CHARLÈNE BRIARD, NATACHA DELAVEAU, HOËL HOTTE, DANIEL CLUZEAU, CHARLES GERS, MARITXU GUIRESSE.

MONDAY, August 6th - Soil Biodiversity and Monitoring

Effect of saline wetland reclamation on nematode assemblages in Heihe River Basin in Northwest China **MO_SBM_P24**

XUEFENG WANG, YONGZHONG SU, WENJIE LIU, RONG YANG, XIAO YANG, DONGHUI WU.

Thermochemolysis with trimethylsulfonium hydroxide in fatty acid analysis: a tool for biochemical investigations in enchytraeids **MO_SBM_P25**

FABRÍCIO HANSEL, CINTIA NIVA, TAMIRES MELO, GEORGE BROWN.

Barcoding 'potworms'? Towards a molecular identification of species in Enchytraeidae (Oligochaeta) **MO_SBM_P26**

RÜDIGER SCHMELZ, RUT COLLADO, DAVID PORCO.

A preliminar study of Oligochaetofauna from La Martinica, Veracruz, Mexico **MO_SBM_P27**

YADENEYRO DE LA CRUZ-ELIZONDO, ERIKA MORALES, CARLOS FRAGOSO.

Collembola community in agricultural grasslands with different plant composition **MO_SBM_P28**

ALESSANDRA D'ANNIBALE, VALENTINA SECHI, JØRGEN ERIKSEN, PAUL HENNING KROGH, THOMAS LARSEN, KRISTINE MARALDO.

Multi-scale Spatial heterogeneity of Collembola in farmland in Sanjiang Plain, Northeast China **MO_SBM_P29**

MEIXIANG GAO, DONGHUI WU.

Activity characteristics of Collembola living on snow surface in three land use types in Sanjiang Plain of China **MO_SBM_P30**

BING ZHANG, LIANG CHANG, DONGHUI WU.

Effects of simulated warming and moisture fluctuations on two soil Collembola species in Songnen plain in Northeast China **MO_SBM_P31**

XIUMIN YAN, DONGHUI WU, YUNBIAO WANG, HAITAO WU.

Mountain spruce forests under natural dieback - long term observation of millipede and centipede assemblages in plots with subsequent spontaneous development and under traditional forest management practices **MO_SBM_P32**

KAREL TAJOVSKÝ, LUKÁŠ VELÍŠEK, KAREL MATĚJKA.

Diversity of soil macrofauna (Diplopoda, Chilopoda and Oniscidea) in apple orchards under different production systems **MO_SBM_P33**

KAREL TAJOVSKÝ.

Terrestrial arthropods (Diplopoda, Chilopoda, Oniscidea) in forest fragment habitats of the Central European landscape **MO_SBM_P34**

KAREL TAJOVSKÝ, IVAN HADRIÁN TUF, JOLANTA WYTWER, JAN HOŠEK, JEŇÝK HOFMEISTER.

DNA barcoding of Chilopoda: preliminary report on cryptic diversity cases in the genus Eupolybothrus Verhoeff, 1907 (Chilopoda: Lithobiomorpha: Lithobiidae) **MO_SBM_P35**

DAVID PORCO, PAVEL STOEV, MARZIO ZAPPAROLI, STYLIANOS SIMAIKIS, NESRINE AKKARI, GREGORY EDGEcombe.

MONDAY, August 6th - Soil Biodiversity and Monitoring

The Edaphobase GBIF Project of Germany – A new online soil organism data warehouse **MO_SBM_P36**

DAVID RUSSELL, JÖRN VORWALD, ANDREAS FRANZKE, HUBERT HÖFER, FRANZ HORAK, STEPHAN LESCH, SEBASTIAN RICK, JÖRG RÖMBKE, RÜDIGER SCHMELZ, WILLI XYLANDER.

The GENOSOIL-Fr project: insights from metagenomics into the study of total biodiversity of soils **MO_SBM_P37**

THIBAUD DECAËNS, DAVID PORCO, DAVID SEBAG, JOHAN OSZWALD, RODOLPHE ROUGERIE, AURÉLIE HUSTÉ, LISE DUPONT, SYLVAIN DOLÉDEC, JEAN-PIERRE ROSSI, MEHRDAD HAJIBABAEI.

Hands-on DNA barcoding: Engaging students of the ECOTROP field class for rapid invertebrate diversity assessment in La Lopé National Park, Gabon **MO_SBM_P38**

DAVID PORCO, NICAISE LEPENGUE, DAVID SEBAG, RODOLPHE ROUGERIE, LAURENT BREMOND, SIMON DUFOUR, PHILIPPE LE GALL, JUDICAËL LEBAMBA, GISLAIN MOUSSAVOU, MAKAYA MVOUMBOU, RICHARD OSLISLY, JOHAN OSZWALD, CHRISTOPHE PAUPY, OLIVIA SCHOLTZ, MAURICE TINDO, MICHEL VEUILLÉ, THIBAUD DECAËNS.

DNA barcoding soil invertebrates: lighting up the underground **MO_SBM_P39**

DAVID PORCO, LOUIS DEHARVENG, THIBAUD DECAËNS, SAM JAMES, PAVEL STOEV, DAVID WALTER, PAUL HEBERT.

Noninvasive methods to investigate trophic interactions among epigeic animals **MO_SBM_P40**

DANIELA STRAUBE, SANDRA SEQUANI, MARIA RAMMER, ANITA JUEN.

Functional and ecological trait approaches to test response of soil macroinvertebrate communities to acidified forest management by liming **MO_SBM_P41**

NAHMANI JOHANNE, AUCLERC APOLLINE, CAPOWIEZ YVAN, GUEROLD FRANÇOIS, PASQUET ALAIN, PEY BENJAMIN, HEDDE MICKAËL.

Soil invertebrate functional traits as indicators for metal contamination **MO_SBM_P42**

CELINE PERNIN, FABIEN GRUMIAUX, JOHANNE NAHMANI, SANDRINE SALMON, SYLVAIN DEMUYNCK, BENOIT GONDRIY, ISABELLE LAMY, FOLKERT VAN OORT, BENJAMIN PEY, MICHAEL HEDDE.

Restoration of Soil Micro-arthropod Biodiversity in Cropland in Black Soil Region, Northeastern China **MO_SBM_P43**

WU DONGHUI, CHANG LIANG, SUN XIN, LIU DONG.

Effects of reduced-impact logging on soil animal communities in the Deramakot Forest Reserve in Borneo **MO_SBM_P44**

MOTOHIRO HASEGAWA, MASAMICHI T. ITO, TOMOHIRO YOSHIDA, TATSUYUKI SEINO, ARTHUR Y. C. CHUNG, KANEHIRO KITAYAMA.

Response of soil fauna to disturbances in mountain alder swamp woods **MO_SBM_P45**

MARIA STERZYNSKA, TOMASZ LAMORSKI, PAWEL NICIA, VÁCLAV PIŽL, JOSEF STARÝ, KAREL TAJOVSKÝ, JOLANTA WYTWER.

Agriculture: the main factor of soil microarthropods decline in France **MO_SBM_P46**

JÉRÔME CORTET, MICKAËL HEDDE, GUÉNOLA PÉRÈS.

MONDAY, August 6th - Soil Biodiversity and Monitoring

The structural and functional organization of soil-dwelling invertebrate communities in floodplain landscapes **MO_SBM_P47**

ALEXANDER BASTRAKOV, LEONID RYBALOV.

Seasonal dynamics of the spatial distribution of soil macrofauna in a broadleaf forest in Russia **MO_SBM_P48**

ZHANNA V. FILIMONOVA, KONSTANTIN B. GONGALSKY.

Monitoring restoration in open-pit mine in Northern Italy: the case study of the quarry “La Speranza” **MO_SBM_P49**

CRISTINA MENTA, ALAN LEONI, FEDERICA D. CONTI, STEFANIA PINTO.

Soil fauna across Central European sandstone ravines with temperature inversion: from cool and shady to dry and hot places **MO_SBM_P50**

JIRI SCHLAGHAMERSKY, MILOSLAV DEVETTER, LADISLAV HANEL, VACLAV PIZL, JOSEF STARY, IVAN TUF, KAREL TAJOVSKY.

Diversity of soil macrofauna after restoring environmentally-friendly agriculture in western France **MO_SBM_P51**

DAMIEN DESCHAMPS, ROMAIN TEXIER, YVES CAUBET, CATHERINE SOUTY-GROSSET.

Macrofauna associated to coffee plantations in Veracruz, México **MO_SBM_P52**

ISABELLE BAROIS, DANIEL GEISSERT, LETICIA MONJE, RIGUEL CARRERA, ROBERT MANSON.

Diversity patterns of Araneae across a gradient of farming practices in olive groves from Trás-os-Montes (Northeastern Portugal) **MO_SBM_P53**

JACINTO BENHADI-MARIN, JOSÉ A. BARRIENTOS, JOSÉ PEREIRA, SÓNIA SANTOS.

Soil ants as indicators of provision of ecosystem services in production systems of the Eastern Plains of Colombia **MO_SBM_P54**

CATALINA SANABRIA, PATRICIA CHACON, EDGAR RODRÍGUEZ, PATRICK LAVELLE.

Soil quality and biodiversity across a land-use intensification gradient in Santa Catarina, Brazil **MO_SBM_P55**

OSMAR KLAUBERG FILHO, SIU MUI TSAI, GEORGE BROWN, MARIE BARTZ, ÁLVARO LUIZ MAFRA, THIBAUD DECAËNS, JOSÉ PAULO SOUSA, CAROLINE MALUCHE BARETTA, SIDNEY LUIZ STÜRMER, DILMAR BARETTA.

Invertebrate diversity in Cozumel Island mangroves, Quintana Roo, Mexico **MO_SBM_P56**

ARTURO GARCÍA, GABRIELA CASTAÑO, MARÍA M. VÁZQUEZ, JOSÉ G. PALACIOS.

Soil and litter invertebrates in agroforestry systems and regenerating Atlantic Forest **MO_SBM_P57**

RAUL M. CEZAR, FABIANE M. VEZZANI, DANIEL KRAMER, ANA L. BIANCHIN, GEORGE BROWN.

Macrofauna in different land-use systems in the state of Santa Catarina, Brazil **MO_SBM_P58**

MARCIO GONÇALVES DA ROSA, MARIE BARTZ, OSMAR KLAUBERG FILHO, GEORGE BROWN, MAXIMILIANO PASETTI, RAFAEL ANSELM, DEIVES GIRARDI, ROGÉRIO FORALOSSO, JOSÉ PAULO SOUSA, DILMAR BARETTA.

MONDAY, August 6th - Soil Biodiversity and Monitoring

Climate change effects on density and diversity of soil arthropods in characteristic soil types of the Pannonian agricultural area **MO_SBM_P59**

HELENE BERTHOLD, ANDREAS BAUMGARTEN, ALEXANDER BRUCKNER, PASCAL QUERNER, JANET WISSUWA, JOHANNES HÖSCH.

The effect of soil fauna on litter decomposition in Pinus koraiensis mixed broad-leaved forest, Changbai Mountains in China **MO_SBM_P60**

YIN XIUQIN, TAO YAN, JIANG YUNFENG, WANG FUBIN.

18:00h

Leaving to Welcome Reception

18:30h - 21:00h

Welcome Reception

TUESDAY, August 7th**Soil Ecology Session**

Chairman: Mac Callaham, Anna Rozen.

09:00h - 09:30h	<i>What's up down there? Ecological processes and biotic interactions in soils</i> MARTIN ZIMMER.	TU_SE_KN1
09:30h - 09:45h	<i>Three factors modulate intraspecific interactions in terrestrial isopods</i> FREDDIE-JEANNE RICHARD, CATHERINE SOUTY-GROSSET.	TU_SE_O1
09:45h - 10:00h	<i>Impact of large grazers on soil physical properties and soil fauna explains changes in nutrient cycling and vegetation composition</i> MAARTEN SCHRAMA, MATTY BERG, HAN OLFF.	TU_SE_O2
10:00h - 10:15h	<i>Feedback between niche construction and dispersal rate. Study of a soil engineer organism, the earthworms</i> GAËL CARO, CHRISTIAN HARTMANN, CHRISTOPHE LECARPENTIER, JÉRÔME MATHIEU.	TU_SE_O3
10:15h - 10:30h	<i>Effect of dominating tree species upon stoichiometric relations in soil/litter invertebrates</i> ANNA ROZEN, LUKASZ SOBCZYK, JANUARY WEINER.	TU_SE_O4
10:30h - 10:45h	<i>Stable isotope analysis in understanding belowground food webs: achievements and challenges</i> ALEXEI V. TIUNOV.	TU_SE_O5
10:45h - 11:30h	Coffee break + Posters	
11:30h - 11:45h	<i>Landscape features underlie metacommunity patterns of soil fauna along forest fragmentation gradients</i> PEDRO MARTINS DA SILVA, JOSÉ PAULO SOUSA, MATTY BERG.	TU_SE_O6
11:45h - 12:00h	<i>Effect of earthworm invasion on the prey spectrum of native carabid beetles (Coleoptera, Carabidae)</i> DANIELA STRAUBE, ANITA JÜEN.	TU_SE_O7
12:00h - 12:15h	<i>BETSI, a complete framework for studying soil invertebrate functional traits</i> MICKAEL HEDDE, BENJAMIN PEY, APOLLINE AUCLERC, YVAN CAPOWIEZ, DANIEL CLUZEAU, JÉRÔME CORTET, THIBAUD DECAËNS, LOUIS DEHARVENG, FLORENCE DUBS, FABIEN GRUMIAUX, MURIEL GUERNION, SOPHIE JOIMEL, MARIE-ANGÉLIQUE LAPORTE, ALAIN PASQUET, CELINE PELOSI, CELINE PERNIN, JEAN-FRANÇOIS PONGE, SANDRINE SALMON, LUCIA SANTORUFO, JOHANNE NAHMANI.	TU_SE_O8
12:15h - 12:30h	<i>Evaluation of collembolan trait performance as effect indicator of environmental change</i> PAUL HENNING KROGH, PETERSEN HENNING.	TU_SE_O9
12:30h - 14:00h	Lunch	

Soil Ecology Session

Chairman: Patrick Lavelle, George Brown.

14:00h - 14:30h	<i>Tropical soil zoology and ecology: some past and current trends and future challenges</i> GEORGE BROWN, THIBAUD DECAËNS.	TU_SE_KN2
14:30h - 14:45h	<i>Invasions of the Portuguese millipede, Ommatoiulus moreleti, in southern Australia</i> GEOFF BAKER.	TU_SE_O10
14:45h - 15:05h	<i>Communicating and sharing knowledge on soil fauna with farmer communities. Examples from Brazilian Amazonia</i> PATRICK LAVELLE.	TU_SE_O11
15:05h - 15:20h	<i>Earthworms in the Non-glaciated Americas: Intentional Introductions, Invasions, Soil Quality Indicators, and Interactions with Native Species</i> MAC CALLAHAM, GEORGE BROWN, CARLOS FRAGOSO, BRUCE SNYDER, SAM JAMES.	TU_SE_O12
15:20h - 15:35h	<i>The impact of earthworm invasion on enchytraeids in Northern Hardwood Forests of North America</i> JIRI SCHLAGHAMERSKY, NICO EISENHAUER, LEE FRELICH.	TU_SE_O13
15:35h - 16:15h	Coffee break + Posters	
16:15h - 16:30h	<i>Vascular plant litter input in sub-arctic peat bogs changes soil invertebrate diets and decomposition patterns</i> EVELINE KRAB, RICHARD VAN LOGTESTIJN, MATTY BERG, HANS CORNELISSEN, RIEN AERTS.	TU_SE_O14
16:30h - 16:45h	<i>Recovery of soil meso- and macrofauna after wildfires in the boreal forest</i> KONSTANTIN B. GONGALSKY, ANDREI S. ZAYTSEV.	TU_SE_O15
16:45h - 17:00h	<i>Interactions between soil-dwelling dipteran larvae and their gut microbiota in alpine zones</i> ALEXANDER RIEF, WOLFGANG ARTHOFER, FLORIAN STEINER, BIRGIT SCHLICK-STEINER, JULIA SEEGER.	TU_SE_O16
17:00h - 18:00h	Poster sessions	
	<i>How do native British earthworms respond to Exotic Eucalyptus?</i> NALIKA RAJAPAKSHA, KEVIN BUTT, ELENA VANGUELOVA, ANDY MOFFAT.	TU_SE_P1
	<i>The effects of earthworms on microbial communities: comparison of soil and cave populations of Aporrectodea rosea</i> VÁCLAV PIŽL, DANA ELHOTTOVÁ, ANNA KOUBOVÁ, LUDMILA KAHOUNOVÁ.	TU_SE_P2
	<i>Removal of invasive shrubs (Ligustrum sinense) reduces invasive earthworm abundance and promotes recovery of native earthworms</i> JOSHUA LOBE, PAUL HENDRIX, MAC CALLAHAM, JAMES HANULA.	TU_SE_P3

- Does the impact of earthworms on microbial communities depend on soil type and other cast properties?* TU_SE_P4
BENOIT RICHARD, JULIA CLAUSE, MARC LEGRAS, SÉBASTIEN BAROT, ESTELLE FOREY, THIBAUD DECAËNS.
- Functional response of assemblage earthworm along a gradient of land-use intensity: pan-european study* TU_SE_P5
FLORENCE DUBS, TOM BOLGER, CSABA CSUZDI, PAUL EGGLETON, JARI HAIMI, ALAN WATT.
- Does the impact of earthworms on seed germination depend on soil type and cast properties?* TU_SE_P6
JULIA CLAUSE, BENOIT RICHARD, SÉBASTIEN BAROT, THIBAUD DECAËNS, MARC LEGRAS, ESTELLE FOREY.
- Cocoon viability and evidence for delayed hatching by the K-selected earthworm Lumbricus terrestris in a laboratory-based study* TU_SE_P7
CHRISTOPHER LOWE, KEVIN BUTT.
- Behavioural flexibility in the deep burrowing earthworm Lumbricus terrestris under adverse subsoil conditions* TU_SE_P8
KEVIN BUTT, VISA NUUTINEN.
- An oasis of fertility on a barren island: Earthworms from Papadil, Isle of Rum* TU_SE_P9
KEVIN BUTT, CHRIS LOWE, MAC CALLAHAM, VISA NUUTINEN.
- Species and soil properties determine the most accurate method for earthworm extraction. Study in rain-fed olive groves and grasslands of Central-Western Spain* TU_SE_P10
MÓNICA GUTIÉRREZ-LÓPEZ, ENRIQUE JUÁREZ, DOLORES TRIGO, GERARDO MORENO, JUAN JESÚS, DARÍO J. DÍAZ-COSÍN.
- Linking the histological structure of the earthworm epithelium to ecological groupings* TU_SE_P11
SILVIA BARJA-FERNÁNDEZ, ROSA ÁLVAREZ-OTERO, MARIA J.I. BRIONES.
- Lectin histochemistry in the cuticle and epidermis of earthworms* TU_SE_P12
SILVIA BARJA-FERNÁNDEZ, ROSA ÁLVAREZ-OTERO, MARIA J.I. BRIONES.
- Use of radiocarbon (¹⁴C) to estimate diet ages of earthworms at different climate zones* TU_SE_P13
FUJIO HYODO, TOMOKO UCHIDA, NOBUHIRO KANEKO, ICHIRO TAYASU.
- Earthworms (Pontoscolex corethrurus and Amynthus gracilis) effects on Eucalyptus spp. seedling growth* TU_SE_P14
WAGNER MASCHIO, GEORGE BROWN.
- The availability of labile carbon affects interactions between earthworms and collembolans* TU_SE_P15
OKSANA SHILENKOVA.
- Is the trophic specialization of Collembola related to taxonomy of species?* TU_SE_P16
EUGENIA SEMENINA.

- Utilization of canopy and soil litter by collembolans in a temperate coniferous plantation* TU_SE_P17
TOMOHIRO YOSHIDA, NAOKI HIJII.
- Trophic niche structure in the community of compost-dwelling Collembola (isotopic evidence)* TU_SE_P18
NATALIA KUZNETSOVA, ALEXEI TIUNOV, ANASTASIA KOROTKEVICH.
- Insensitivity of the mushroom-feeding Collembola, Ceratophysella denticulata, to amanitin and ibotenic acid* TU_SE_P19
TAIZO NAKAMORI, NOBUHIRO KANEKO.
- Empirically testing assimilation efficiencies in Entomobryomorpha Collembola* TU_SE_P20
FELICITY CROTTY, SINA ADL.
- Longterm dynamics of soil fauna abundance and biomass at two forest monitoring sites in South Tyrol, Italy* TU_SE_P21
THOMAS PEHAM, ERWIN MEYER.
- Significance of litter layer in enhancing mesofaunal abundance and microbial biomass nitrogen in sweet corn–white clover living mulch systems* TU_SE_P22
SATOSHI KANEDA, SHIGENORI MIURA, NOBUO YAMASHITA, KENTARO OHIGASHI, SHUHEI YAMASAKI, TOSHIFUMI MURAKAMI, YASUFUMI URASHIMA.
- Community structure (spatial and temporal variation) of soil arthropods in El Pedregal de San Ángel Ecological Reserve, Mexico City, Mexico* TU_SE_P23
MARIA RAZO GONZÁLEZ, GABRIELA CASTAÑO MENESES, ALICIA CALLEJAS CHAVERO, DANIELA PÉREZ VELÁZQUEZ, JOSÉ G. PALACIOS VARGAS.
- Home-field advantage effect: a matter of successional stage status and decomposer biota* TU_SE_P24
GABRIEL PEREZ, THIBAUD DECAËNS, JEAN TRAP, MICHAËL AUBERT, MATTHIEU CHAUVAT.
- Species composition and trophic structure of soil invertebrates inhabiting coarse woody debris in an old-growth forest* TU_SE_P25
ANTON GONCHAROV, ALEXEI TIUNOV.
- Soil biodiversity and quality in two Italian beech forests: the role of soil microarthropods* TU_SE_P26
CRISTINA MENTA, STEFANIA PINTO, FEDERICA D. CONTI, STEFANIA PAPA, ANTONELLA PELLEGRINO, ANTONIETTA FIORETTO.
- Where are soil animals? The range of $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ values of soil macrofauna in temperate forests* TU_SE_P27
DANIIL KOROBUSHKIN, KONSTANTIN GONGALSKY, ALEXEI TIUNOV.
- Detritivorous activity of terrestrial isopods Armadillidium vulgare and ionic elements transfer from litter to soil, a laboratory microcosms study* TU_SE_P28
BÉRÉNICE BOIS, GAIL FREYSSINEL, BENJAMIN BOURDON, FREDDIE-JEANNE RICHARD, CATHERINE SOUTY-GROSSET.

Extensive organic farming enhances soil macrofauna abundance in Humid Pampa, Argentina **TU_SE_P29**

ANAHÍ DOMÍNGUEZ, JOSÉ BEDANO, ANALÍA BECKER.

Soil meso and macrofauna under different no-till managements in a gradient of soil development in the Humid Pampa of Argentina **TU_SE_P30**

JOSÉ C. BEDANO, ROMINA AROLFO, ANAHÍ DOMÍNGUEZ, FLORENCIA VAQUERO, LUIS WALL.

Ant communities in organic rain-fed and irrigated olive groves in the Southeast of Alentejo **TU_SE_P31**

ISABEL PATANITA, CLÁUDIA GONÇALVES, SÓNIA SANTOS.

Effects of land-use management on soil microarthropods from olive groves using a trait approach **TU_SE_P32**

FILIPPE CHICHORRO, ANDRESSA BUCH, PEDRO MARTINS DA SILVA, ALBERTO FERREIRA, SÓNIA SANTOS, JOSÉ PAULO SOUSA.

Does habitat patch shape and configuration affect carabid beetle community trait structure in fragmented landscapes? **TU_SE_P33**

PEDRO MARTINS DA SILVA, ADAM VANBERGEN, MATTY BERG, CARLOS AGUIAR, GUILLAUME BOULANGER, ANNE-CATHERINE GRANDCHAMP, VALERIE GOLDEN, MATTI KOIVULA, JARI NIEMELÄ, BEN WOODCOCK, JOSÉ PAULO SOUSA, ARTUR SERRANO.

Spatial resilience of a soil microarthropod community on disturbed areas **TU_SE_P34**

DIANA SAÑUDO, SARA MENDES, PEDRO MARTINS DA SILVA, PAULA ARAÚJO, JOSÉ PAULO SOUSA.

Effect of elevation and sheep grazing on trophic relations of macro-decomposers in high-alpine soils **TU_SE_P35**

MICHAEL STEINWANDTER, ALEXANDER RIEF, MICHAEL TRAUGOTT, JULIA SEEBER.

How do snails form communities? **TU_SE_P36**

TINA ASTOR, JOACHIM STRENGBOM, LISETTE LENOIR, MATTY BERG.

Stable isotope (¹³C and ¹⁵N) composition of tissues and organs of soil-living macroinvertebrates **TU_SE_P37**

KONSTANTIN B. GONGALSKY, ALEXEI V. TIUNOV, ANTON A. GONCHAROV, DANIIL I. KOROBUSHKIN.

*Soil mesofauna communities associated with decomposed leaves: impact of land use change characterized by the expansion of *Pinus halepensis** **TU_SE_P38**

MATHILDE CHOMEL, BALDY VIRGINIE, GAUQUELIN THIERRY, BOUSQUET-MELOU ANNE, GERS CHARLES, FERNANDEZ CATHERINE.

Improving the reliability of comparison between the action of micro and macrofauna through litterbags with two opening sizes **TU_SE_P39**

ROSANA GIMÉNEZ, TOMAS BOTTA, EVA KESTEN.

The Impact of Native and Exotic Plants on Soil Biodiversity and Ecosystem Function **TU_SE_P40**

STEPHANIE BIRD, ANDY SALISBURY, PETER SHAW, CLAIRE OZANNE.

WEDNESDAY, August 8th

Free Day

THURSDAY, August 9th**Soil Functions / Services Session**

Chairman: Matty Berg, Ruth Pereira.

09:00h - 09:30h	<i>Soil fauna and the provision of ecosystem services: a systems approach</i> JACK FABER.	TH_SFS_KN1
09:30h - 09:45h	<i>Soil macroinvertebrate communities and ecosystem services in deforested Amazonia</i> RAPHAËL MARICHAL, MICHEL GRIMALDI, THIERRY DESJARDINS, THIBAUD DECAËNS, ALEXANDER FEIJOO, MARIA DEL PILAR HURTADO, MARIANA N. D. OLIVEIRA, CATARINA PRAXEDES, ELENA VELASQUEZ, PATRICK LAVELLE.	TH_SFS_O1
09:45h - 10:00h	<i>Soil biodiversity for sustainable agriculture</i> NOBUHIRO KANEKO, TAIZO NAKAMORI, YUKIO MINAMIYA, HIROSHI TSUZURA, TOSHIKO MIURA, MIWA ARAI.	TH_SFS_O2
10:00h - 10:15h	<i>Testing the relative importance of mass ratio and complementarity hypotheses in a litter-macrodetrivore model system: mass ratio rules!</i> KAROLÍNA BÍLÁ, MARCO MORETTI, FRANCESCO DE BELLO, ANDRÉ T.C. DIAS, A. RAOUL VAN OOSTEN, MATTY P. BERG.	TH_SFS_O3
10:15h - 10:30h	<i>Quantifying soil C & N nutrient transfers through food web functional groups using stable isotope methods</i> SINA ADL, FELICITY CROTTY, PHIL MURRAY, ROD BLACKSHAW.	TH_SFS_O4
10:30h - 10:45h	<i>Utilising stable isotope ecology to trace soil fauna feeding preferences in situ</i> FELICITY CROTTY, SINA ADL, ROD BLACKSHAW, PHIL MURRAY.	TH_SFS_O5
10:45h - 11:30h	Coffee break + Posters	
11:30h - 11:45h	<i>The Architect Forgot the Engineers or Why are Soil Animals Being Ignored?</i> JULIANE FILSER.	TH_SFS_O6
11:45h - 12:00h	<i>Earthworms reduce the severity of take-all disease on wheat</i> RUBEN PUGA-FREITAS, LAMIA BELKACEM, SÉBASTIEN BAROT, JEAN ROGER-ESTRADE, MICHEL BERTRAND, MANUEL BLOUIN.	TH_SFS_O7
12:00h - 12:15h	<i>Soil tillage effects on earthworm populations and species diversity in arable farming systems; understanding the temporal and spatial dimensions</i> MIRJAM PULLEMAN, STEPHEN CRITTENDEN, TAMILARASI ESWARAMURTHY, RON DE GOEDE.	TH_SFS_O8

12:15h - 12:30h	<i>Spatiotemporal distribution of earthworms and their functional effects on soil hydrological processes</i> ANNE-KATHRIN SCHNEIDER, LOES VAN SCHAİK, JULIANE PALM, ANNE ZANGERLÉ, BORIS SCHRÖDER.	TH_SFS_O9
12:30h - 14:00h	Lunch Soil Functions / Services Session Chairman: Lijbert Brussaard, Mark Hassal.	
14:00h - 14:30h	<i>New challenges for soil ecology in a changing environment</i> ANDREY ZAITSEV.	TH_SFS_KN2
14:30h - 14:45h	<i>Biogeography and Phylogenetic Community Structure of Soil Invertebrate Ecosystem Engineers: Global to Local Patterns, Implications for Ecosystem Functioning and Services and Global Environmental Change Impacts</i> LIJBERT BRUSSAARD, DUUR K. AANEN, MARIA J.I. BRIONES, THIBAUD DECAËNS, GERLINDE B. DE DEYN, TOM M. FAYLE, SAMUEL W. JAMES, TÂNIA NOBRE.	TH_SFS_O10
14:45h - 15:00h	<i>Global worming: earthworms increase greenhouse gas emissions from soil</i> INGRID LUBBERS, LIJBERT BRUSSAARD, JAN W. VAN GROENIGEN.	TH_SFS_O11
15:00h - 15:15h	<i>Are we neglecting soil fauna when studying nitrous oxide emissions from soil?</i> JAN WILLEM VAN GROENIGEN, IMKE KUIPER, INGRID M. LUBBERS, GERLINDE B. DE DEYN.	TH_SFS_O12
15:15h - 15:30h	<i>Correlation between macro-detritivores response and effect traits: species filtering by global changes and its possible consequences to ecosystem processes</i> ANDRÉ T. C. DIAS, DAVIDE BELLONE, MATTY P. BERG.	TH_SFS_O13
15:30h - 16:15h	Coffee break + Posters	
16:15h - 16:30h	<i>Do alterations in mesofauna community affect earthworms?</i> ALEXEI UVAROV, KAMIL KARABAN.	TH_SFS_O14
16:30h - 16:45h	<i>Interactions between macrofauna and microorganisms in a Mediterranean shrubland</i> MATHIEU COULIS, S. HÄTTENSCHWILER, N. FROMIN, J. F. DAVID.	TH_SFS_O15
16:45h - 17:00h	<i>Mechanisms supporting the diversity of saprotrophic animals in tropical soils: spatial and trophic niche differentiation in a species-rich millipede community</i> IRINA SEMENYUK.	TH_SFS_O16
17:00h - 18:00h	Poster session <i>Drought-induced reduction in uptake of recently photosynthesized carbon by springtails and mites in alpine grassland</i> JULIA SEEBER, ALEXANDER RIEF, ANDREAS RICHTER, MICHAEL TRAUGOTT, MICHAEL BAHN.	TH_SFS_P1

- Macropores and earthworm species affected by agronomic intensification* TH_SFS_P2
PAUL HENNING KROGH, GUÉNOLA PÉRÈS.
- Near infrared spectroscopy for identifying the earthworm's participation to soil macroaggregation* TH_SFS_P3
ANNE ZANGERLÉ, CHRISTOPHE HISSLER, PATRICK LAVELLE.
- Modulatory role of earthworms in the effects of invasive tree species on herbaceous understory* TH_SFS_P4
DOLORES TRIGO, ESTHER PÉREZ-CORONA, PALOMA DE LAS HERAS, MARIO ZAMORANO, NATALIA LÓPEZ, MÓNICA GUTIÉRREZ-LÓPEZ.
- Effects of exotic and native tree leaf litter on growing and reproduction of the earthworm *Eisenia fetida* in laboratory cultures* TH_SFS_P5
DOLORES TRIGO, ESTER RANERA, MÓNICA OTERO, MARISA CUBERO, MÓNICA GUTIÉRREZ-LÓPEZ.
- Spatial distribution and dispersal of earthworms in a complex landscape – implications for ecosystem services* TH_SFS_P6
JOANA FRAZÃO, MIRIAM PULLEMAN, STEPHEN CRITTENDEN, JACK FABER, JEROEN GROOT, LIJBERT BRUSSAARD.
- Role of earthworms on carbon release from kiwifruit plantations under different agricultural management* TH_SFS_P7
MARIA DEL CARMEN F. LAGO, MARIA E. BARREAL, PEDRO P. GALLEGGO, MARIA J.I. BRIONES.
- Non-trophic effects of earthworms on enchytraeids: an experimental investigation* TH_SFS_P8
KAMIL KARABAN, ALEXEI UVAROV.
- Effect of the Bio Organic fertilization (FBO) technique on phytoparasitic nematodes in plantain banana crops of Colombia* TH_SFS_P9
YAMILETH CHAGÜEZÁ VILLARREAL, PATRICK LAVELLE, NEUZA ASAKAWA, ELENA VELÁSQUEZ.
- CO₂ production and the rate of decomposition of wet and dry wood ant (*Formica polyctena*) nests* TH_SFS_P10
VERONIKA JÍLKOVÁ, JAN FROUZ.
- White Grubs and Soil Infiltration* TH_SFS_P11
ANGEL ROMERO-LÓPEZ, ERICA PALACIOS-RODRÍGUEZ, ENTIQUE ALARCÓN, ISABELLE BAROIS, DANIEL GEISSERT.
- Which detritivore traits matter for functional diversity studies?* TH_SFS_P12
ALINE F. QUADROS, JULIA BERGER, MARTIN ZIMMER.
- Components of small scale spatial variation in forest soil respiration: the effect of mesofauna activity* TH_SFS_P13
ANNA MATKOWSKA, PAULINA PASTERNAK, ANNA ROŻEN, ŁUKASZ SOBCZYK, JANUARY WEINER.
- Organic farming foster agroecosystem functioning in temperate soils: evidence from residue decomposition process and soil fauna communities* TH_SFS_P14
ANAHÍ DOMÍNGUEZ, ROMINA AROLFO, ANALÍA BECKER, JOSÉ BEDANO.

Early colonisation of a constructed Technosol by soil organisms after industrial site rehabilitation **TH_SFS_P15**

JÉRÔME CORTET, THIERRY BÉGUIRISTAIN, ANNE MARIE CHARISSOU, ELODIE-DENISE CHENOT, DANIEL CLUZEAU, MICKAËL HEDDE, FABRICE MARTIN-LAURENT, JEAN-FRANÇOIS MASFARAUD, CÉCILE VILLENAVE, FRANÇOISE WATTEAU.

Do soil macro-fauna and micro-flora interact synergistically in leaf litter decomposition? **TH_SFS_P16**

ALEXANDRA ŠPALDOŇOVÁ, JAN FROUZ.

Decomposition activity on introduced Mediterranean leaf litter in Germany **TH_SFS_P17**

ANDREAS GERLACH, DAVID RUSSELL, JÖRG RÖMBKE, BARBARA JÄSCHKE, WOLFGANG BRÜGGEMANN.

Effect of invasive species Ailanthus altissima litter on soil microarthropod community in laboratory cultures **TH_SFS_P18**

ESTER RANERA, DOLORES TRIGO, MÓNICA OTERO, MÓNICA GUTIÉRREZ-LÓPEZ.

Effect of invasive tree species (Ailanthus altissima, Ulmus pumilla and Robinia pseudoacacia) on earthworm community and soil properties at a riparian forest of Henares River (Madrid, Spain) **TH_SFS_P19**

DOLORES TRIGO, ESTER RANERA, MARISA CUBERO, MÓNICA OTERO, MÓNICA GUTIÉRREZ-LÓPEZ.

Effect of the invasive species Ailanthus altissima on soil microarthropod community at a riparian forest of Henares River (Madrid, Spain) **TH_SFS_P20**

ESTER RANERA, DOLORES TRIGO, MÓNICA OTERO, MÓNICA GUTIÉRREZ-LÓPEZ.

Biological indicators of soil quality and impacts of land use management in agricultural landscapes of northern Nicaragua **TH_SFS_P21**

LAURENT ROUSSEAU, STEVE FONTE, ORLANDO TELLÈZ, PATRICK LAVELLE.

Changes in macroinvertebrate communities with landuse practices affect soil macroaggregation in the Eastern Plains of Colombia **TH_SFS_P22**

EDGAR A. RODRÍGUEZ, YAMILETH C. VILLARREAL, SANDRA P. LOAIZA, CATALINA SANABRIA, ELENA VELÁSQUEZ, PATRICK LAVELLE.

Strategy to evaluate the effect of chemicals and climate changes on ecosystem services provisioning **TH_SFS_P23**

TIAGO NATAL-DA-LUZ, ANDRESSA BUCH, GERARDO OJEDA, JÖRG RÖMBKE, JOSÉ PAULO SOUSA.

19:30h

Leaving to Congress Dinner

20:30h - 23:00h

Congress Dinner

FRIDAY, August 10th**Soil Ecotoxicology and Other Stressors Session**

Chairman: Roman Kuperman, Mónica Amorim.

09:00h - 09:30h	<i>New challenges for Soil Ecotoxicology</i> C.A.M. (KEES) VAN GESTEL.	FR_STRESS_KN1
09:30h - 09:45h	<i>Searching for a more sensitive earthworm species to be used in pesticide homologation tests - a meta-analysis</i> SOPHIE JOIMEL, DAVID MAKOWSKI, CÉLINE PELOSI.	FR_STRESS_O1
09:45h - 10:00h	<i>Effects of addition of <i>A. morrisoni</i> (Oligochaeta, Megascolecidae) and organic matter on growth and heavy metal uptake by <i>Sedum alfredii</i> Hance and <i>Zea mays</i> in a contaminated soil</i> CHI ZHANG, XUFEI CHEN, PATRICK LAVELLE, TING LIU, JUN DAI.	FR_STRESS_O2
10:00h - 10:15h	<i>Landfill leachate effects on <i>Eisenia andrei</i> Bouché, 1972</i> ANGELA MELECHENKO, KLAUS SAUTTER, GEORGE BROWN, ANDRESSA BUCH.	FR_STRESS_O3
10:15h - 10:30h	<i>Impact of a tropical earthworm (<i>Pontoscolex corethrurus</i>) on mercury availability in a contaminated ferrallitic soil of French Guiana</i> ELODIE DA SILVA, VIRGINIE ROY, EMMANUEL LAPIED, JOHANNE NAHMANI, MICHEL GRIMALDI, NOUREDDINE BOUSSERRHINE.	FR_STRESS_O4
10:30h - 10:45h	<i>Soil food web changes during spontaneous succession in post mining site: ecosystem engineering effect on food web organization</i> JAN FROUZ, ELISA THÉBAULT, VÁCLAV PIŽL, SINA ADL, TOMÁŠ CAJTHAML, LADISLAV HÁNĚL, JOSEF STARÝ, KAREL TAJOVSKÝ.	FR_STRESS_O5
10:45h - 11:30h	Coffee break + Posters	
11:30h - 11:45h	<i>Establishing a native enchytraeid species for soil-ecotoxicological tests in Brazil</i> CÍNTIA NIVA, RÜDIGER SCHMELZ, GEORGE BROWN.	FR_STRESS_O6
11:45h - 12:00h	<i>Collembolan response on red sludge pollution in Western Hungary</i> DÁNIEL WINKLER, ÁDÁM ERDŐ.	FR_STRESS_O7
12:00h - 12:15h	<i>The paradigms and contradictions of Avoidance Behaviour Tests</i> SUSANA LOUREIRO.	FR_STRESS_O8
12:15h - 12:30h	<i>Development of an avoidance test for the predatory mite <i>Hypoaspis aculeifer</i> as a short screening test for the risk assessment of contaminants in soil</i> OLUGBENGA OWOJORI, KAROLINA WASZAK, JÖRG RÖEMBKE.	FR_STRESS_O9
12:30h - 14:00h	Lunch	

Soil Ecotoxicology and Other Stressors Session

Chairman: Geoff Baker, Gbenga Owojori.

- 14:00h - 14:30h *From Ecotoxicology to Stress Ecology: soil organisms and other stressors* **FR_STRESS_KN2**
HERMAN EIJSACKER.
- 14:30h - 14:45h *Can avoidance behaviour be used as a tool to investigate the re-colonization potential of contaminated patches?* **FR_STRESS_O10**
JEAN MATHIEU RENAUD, TIAGO NATAL DA LUZ, RUI RIBEIRO, JOSÉ PAULO SOUSA.
- 14:45h - 15:00h *The reaction of terrestrial isopods to extreme climate events : a trait approach* **FR_STRESS_O11**
MATTY P. BERG, ANDRÉ DIAS.
- 15:00h - 15:15h *Using soil nematode and microarthropod community testing to assess pesticide effects in warm temperate and tropical regions* **FR_STRESS_O12**
SÓNIA CHELINHO, XAVIER DOMENE, TIAGO NATAL DA LUZ, PILAR ANDRÉS, ISABEL ABRANTES, KLAUS SAUTTER, EVALDO ESPINDOLA, RUI RIBEIRO, JOSÉ PAULO SOUSA.
- 15:30h - 16:10h **Coffee break + Posters**
- 17:00h - 18:00h **Poster session**
- Elemental stoichiometry within soil macro invertebrates: differences between species and influences of local metal pollution* **FR_STRESS_P1**
MICHEL ASSELMAN, ANNA ROZEN, STEFAN SCHEU.
- Effects of the nitramine explosive CL-20 on the soil invertebrate community in a sandy loam soil* **FR_STRESS_P2**
ROMAN KUPERMAN, RONALD CHECKAI, CARLTON PHILLIPS, MICHAEL SIMINI.
- Effect of cadmium polluted soil on test-organisms at different trophic levels* **FR_STRESS_P3**
IRINA GORSHKOVA, TATIANA POPUTNIKOVA, VERA TEREKHOVA.
- Combined effect of density and Cu toxicity in Enchytraeus crypticus - a two generational exposure study* **FR_STRESS_P4**
VANESSA MENEZES-OLIVEIRA, AMADEU SOARES, JANECK SCOTT-FORDSMAND, MÓNICA AMORIM.
- Use of Enchytraeus crypticus in ecotoxicological tests in Brazil* **FR_STRESS_P5**
CINTIA NIVA, JULIA NIEMEYER, BETANI VIEIRA, ADRIANA CARVALHO, GEORGE BROWN.
- Effect of the toxicity of pesticides and metals in the soil nematode community* **FR_STRESS_P6**
JOANA DUARTE, JOSÉ PAULO SOUSA, ISABEL ABRANTES, MARIA TERESA ALMEIDA.
- Utilizing biological assays to assess the environmental effects of chrome mining* **FR_STRESS_P7**
MARK MABOETA, CHARNE VAN COLLER, LEON VAN RENSBURG.

Modeling effects of NaCl and of its interactions with organic matter and pesticides towards soil fauna **FR_STRESS_P8**

GABRIEL DUARTE, SÓNIA CHELINHO, RUTH PEREIRA, JOSÉ PAULO SOUSA.

Ecotoxicological potential of swine manure on the reproduction of Eisenia andrei in the State of Santa Catarina, Brazil **FR_STRESS_P9**

ANA PAULA MACCARI, MARIE BARTZ, KATIANE CASAROTTO, TALYTA ZORTÉA, DIOVANI PAIANO, PATRIC ANDRÉ CASTRO, PATRÍCIA ELOÍSA TORMEM, FRANCISCO ROBERTO ESPIRITO SANTO, JOSÉ PAULO SOUSA, DILMAR BARETTA.

The duration of the standard earthworm avoidance test: are 48h necessary? **FR_STRESS_P10**

SILJA FRANKENBACH, ADAM SCHEFFCZYK, STEPHAN JÄNSCH, JÖRG RÖMBKE.

Glyphosate-based herbicide effects on hydraulic conductivity, density and biomass of earthworms of shade-grown coffee in the center of Veracruz, México **FR_STRESS_P11**

JOSÉ ANTONIO GARCÍA-PÉREZ, ENRIQUE ALARCÓN-GUTIERREZ.

Comparison of the effects of zinc nitrate and tributyltin-oxide on the reproduction and avoidance behavior of the earthworm Eisenia andrei in laboratory tests using ten soils **FR_STRESS_P12**

ADAM SCHEFFCZYK, SILJA FRANKENBACH, STEPHAN JÄNSCH, JÖRG RÖMBKE.

Role of interactions between bacterial communities and the earthworm Eisenia andrei on the distribution and bioavailability of mercury in a polluted temperate soil **FR_STRESS_P13**

NACIMA SADI, ELODIE DA SILVA, VANESSA ALPHONSE, HONG HA NGUYEN, FRANCK VANDENBULCKE, NOUREDDINE BOUSSERRHINE.

Cadmium impacts on soil bacterial activity through earthworm-mediated soil aggregation **FR_STRESS_P14**

SELENE MUÑIZ-CABRERA, JUAN LACARTA-ARBUÉS, JUAN J. JIMÉNEZ, ENRIQUE NAVARRO.

Avoidance response of selected temperate earthworm species to pollution in laboratory macrocosms. Implications for bioavailability studies **FR_STRESS_P15**

KEVIN CHEYNIER, CHRISTOPHER LOWE, KEVIN BUTT.

Is all salinity the same? Differences in ionic properties affect saline toxicity to the earthworm Eisenia fetida **FR_STRESS_P16**

OLUGBENGA OWOJORI, OLUKAYODE JEDEDE, ADRIAAN REINECKE.

Earthworms enhance carboxylesterase activity in soil: potential implications in toxicity testing and bioremediation actions **FR_STRESS_P17**

SALOMÉ MORCILLO, JUAN CARLOS SANCHEZ-HERNANDEZ.

Bioaccumulation and apoptotic activity in the earthworm Eisenia fetida (Oligochaeta) after contamination by aged TiO₂ nanocomposite **FR_STRESS_P18**

EMMANUEL LAPIED, EMILIE BIGORGNE, ELARA MOUDILOU, JÉRÔME LABILLE, JÉRÔME ROSE, JEAN-MARIE EXBRAYAT, DEBORAH H. OUGHTON, ERIK J. JONER, JOHANNE Y. NAHMANI.

- Earthworm exposure to cobalt and silver nanoparticles* **FR_STRESS_P19**
CLAIRE COUTRIS, TURID HERTEL-AAS, EMMANUEL LAPIED, ERIK J. JONER,
DEBORAH H. OUGHTON.
- Feeding inhibition effects of Ag nanoparticles on terrestrial isopods* **FR_STRESS_P20**
PAULA TOURINHO, CORNELIS VAN GESTEL, AMADEU SOARES, SUSANA LOUREIRO.
- Effect of soil pH on zinc toxicity to the terrestrial isopod *Porcellionides pruinosus** **FR_STRESS_P21**
PAULA TOURINHO, CORNELIS VAN GESTEL, AMADEU SOARES, SUSANA LOUREIRO.
- Copper tolerance and genetic diversity of *Porcellionides sexfasciatus* (Isopoda) at a highly contaminated mine habitat* **FR_STRESS_P22**
DALILA COSTA, DIDIER BOUCHON, NICO VAN STRAALLEN, JOSÉ PAULO SOUSA, RUI RIBEIRO.
- Ecotoxicological tests with *Folsomia candida* to evaluate toxicity of dredged sediments in tropical soils* **FR_STRESS_P23**
RICARDO CÉSAR, TIAGO NATAL DA LUZ, EDISON BIDONE, ZULEICA CASTILHOS,
HELENA POLINOV, JOSÉ PAULO SOUSA.
- Soil fauna activity decrease after applying glyphosate at wheat sowing* **FR_STRESS_P24**
ROSANA GIMENEZ, JULIO FUCHS, LUCAS PIOLA, WENCESLAO BAIGORRIA,
EDUARDO SOLOAGA, MARÍA ONETO, SILVANA BASACK, RUBÉN MASSARO, JUAN PAPA, NORMA CASABÉ, EVA KESTEN.
- Toxicity of soil sterilants to ecological receptors: derivation of proposed Tier 2 site-specific remedial objective* **FR_STRESS_P25**
GLADYS STEPHENSON, ROBIN ANGELL, KELLY OLAVESON, EMMA SHRIVE,
KATHRYN BESSIE, ALFRED BURK.
- The impact of contamination with phophogypsum on the structural and functional diversity of the soil microbial community (Sfax, Tunisia)* **FR_STRESS_P26**
SIRINE BOUGUERRA, OLFA HENTATI, CATARINA MARQUES, JOSÉ PAULO SOUSA,
I.V. NOGUEIRA, NELSON GOMES, SÓNIA MENDO, FERNANDO GONÇALVES,
MOHAMED KSIBI, JOERG ROEMBKE, ABDELMAJID HADDIOUI, RUTH PEREIRA.
- Environmental risk assessment in the São Domingos Mine area (Portugal). Tier I: screening phase* **FR_STRESS_P27**
LUÍS FILHO, CARLA PEREIRA, ANTONELLA PETRUCCI, DILMAR BARETTA, JÚLIO SANTOS, RUTH PEREIRA, MATILDE MOREIRA-SANTOS, TIAGO NATAL-DA-LUZ,
ALBERTO FERREIRA, RUI RIBEIRO, JOSÉ PAULO SOUSA.
- Selection of arboreous species for the phytoremediation of metal contaminated soils: *Fraxinus angustifolia** **FR_STRESS_P28**
JORGE NUNO PINHEIRO, CATARINA MARQUES, GLÓRIA PINTO, A. MESTIRI,
SÓNIA MENDO, NEWTON GOMES, FERNANDO GONÇALVES, TERESA ROCHA-SANTOS, ARMANDO DA COSTA DUARTE, JOERG ROEMBKE, JOSÉ PAULO SOUSA,
MOHAMED KSIBI, ABDELMAJID HADDIOUI, RUTH PEREIRA.

17:00h - 17:30h

Closure of the Meeting

- Participants list -

Abrantes, Isabel

IMAR - CMA, Dept. Life Sciences, Apartado
3046, University of Coimbra, 3001-401 Coimbra
Portugal
isabel.abrantes@zoo.uc.pt

Adl, Sina

Dept. Soil Science, University of Saskatchewan,
Canada
sina.adl@usask.ca

Alves, Joana

IMAR - CMA, Dept. Life Sciences, Apartado
3046, University of Coimbra, 3001-401 Coimbra
Portugal
joanasilvaalves@gmail.com

Alves da Silva, António

IMAR - CMA, Dept. Life Sciences, Apartado 3046,
University of Coimbra, 3001-401 Coimbra
Portugal
antonioalvesdasilva@gmail.com

Amorim, Mónica

Debio & CESAM, University of Aveiro
Portugal
mjamorim@ua.pt

Amossé, Joël

University of Neuchâtel
Switzerland
joel.amosse@unine.ch

Asselman, Michel

Inst. of Environmental Sciences, Jagiellonian Univ.,
Gronostajowa 7, Room 2.1.14, 30-387 Kraków
Poland
michel.asselman@uj.edu.pl

Astor, Tina

Swedish University of Agricultural Sciences (SLU)
Uppsala
Sweden
Tina.Astor@slu.se

Azevedo-Pereira, Henrique

IMAR - CMA, Dept. Life Sciences, Apartado 3046,
University of Coimbra, 3001-401 Coimbra
Portugal
henrique.azevedo.pereira@gmail.com

Baker, Geoff

CSIRO Ecosystem Sciences, Canberra
Australia
Geoff.Baker@csiro.au

Bandow, Cornelia

ECT Oekotoxikologie GmbH, BiK-F, Frankfurt/Main
Germany
c.bandow@ect.de

Barja, Silvia

Dept. Ecología y Biología Animal, Facultad de Biología,
Universidad de Vigo, 36310 Vigo
Spain
sbarja@alumnos.uvigo.es

Barois, Isabelle

Instituto de Ecología, AC Carretera antigua a Coatepec
No. 351 El Haya Xalapa, Veracruz 91970
Mexico
isabelle.barois@inecol.edu.mx

Bartz, Marie

State University of Santa Catarina (UDESC/CEO),
Rua Beloni T. Zanin, 68E - CEP 89815630 Chapecó, SC
Brazil
bartzmarie@gmail.com

Bastrakov, Alexander

Russian Academy of Science Laboratory of Soil
Zoology and General Entomology
Russia
aibastrakov@gmail.com

Bedano, José Camilo

CONICET / Univ. Nacional de Río Cuarto,
Grupo de Investigaciones en Ecología de Ecosistemas
Terrestres, Departamento de Geología, Ruta 36, Km.
601. X5804 BYA Río Cuarto, Córdoba
Argentina
jbedano@exa.unrc.edu.ar

Berg, Matty

VU University Amsterdam, Dept Ecological Science
Netherlands
m.p.berg@vu.nl

Bíla, Karolína

Swiss Federal Research Institute WSL,
Community Ecology - Insubric Ecosystems
Switzerland
karolina.bila@wsl.ch

Bird, Stephanie

University of Roehampton
United Kingdom
Stephanie.bird@roehampton.ac.uk

Bolger, Thomas

University College Dublin
Ireland
tom.bolger@ucd.ie

Briard, Charlène

Université Rennes 1, UMR CNRS EcoBio,
Observatoire de Rennes - Station Biologique, 35380
France
charlene.briard@univ-rennes1.fr

Brown, George

Embrapa Florestas
Brazil
browng@cnpf.embrapa.br

Brussaard, Lijbert

Dept. of Soil Quality, Wageningen University,
Wageningen University
The Netherlands
lijbert.brussaard@wur.nl

Butt, Kevin

University of Central Lancashire
UK
krbutt@uclan.ac.uk

Callaham, Mac

USDA Forest Service, Southern Research Station,
Athens, GA
USA
mcallaham@fs.fed.us

Caro, Gaël

Bioemco - Biodiv – UPMC
France
gael.c.caro@gmail.com

Castaño, Gabriela

Universidad Nacional Autónoma de México
Mexico
gabycast99@hotmail.com

Caubet, Yves

Université de Poitiers, Faculté des Sciences, UMR
CNRS 7267 EBI - EES
France
yves.caubet@univ-poitiers.fr

Cervantes Olvera, Gabriela

Red de Biodiversidad y Sistemática. Instituto de
Ecología A.C. Xalapa, Veracruz
México
gabriela.cervantes@posgrado.inecol.edu.mx

César, Ricardo Gonçalves

Fluminense Federal University
Centrefor Mineral Technology - CETEM/MCT
Rio de Janeiro RJ
Brazil
geo_ricardocesar@yahoo.com.br

Chang, Liang

Northeast Institute of Geography and Agroecology,
Chinese Academy of Sciences
China
springtail@neigae.ac.cn

Chelinho, Sónia

IMAR - CMA, Dept. Life Sciences, Apartado 3046,
University of Coimbra, 3001-401 Coimbra
Portugal
sonia.chelinho@iav.uc.pt

Chichorro, Filipe

IMAR - CMA, Dept. Life Sciences, Apartado 3046,
University of Coimbra, 3001-401 Coimbra
Portugal
filipechichorro@gmail.com

Chomel, Mathilde

Aix-Marseille Univ (France) - UQAT (Québec) France –
Canada
mathilde.chomel@imbe.fr

Costa, Dalila

IMAR - CMA, Dept. Life Sciences, Apartado 3046,
University of Coimbra, 3001-401 Coimbra
Portugal
dalila.costa@iav.uc.pt

Coulis, Mathieu

Center for Functional and Evolutionary Ecology (CEFE-
CNRS)
France
mathieu.coulis@cefe.cnrs.fr

Creamer, Rachel

Environment, Soils and Landuse Institute, Teagasc
Ireland
rachel.creamer@teagasc.ie

Crotty, Felicity

University of Saskatchewan
Canada
felicity.crotty@rothamsted.ac.uk

D'Annibale, Alessandra

Aarhus University, Department of Agroecology
Denmark
Alessandra.DAnnibale@agrsci.dk

Da Silva, Elodie

UMR 7618 BIOEMCO, Equipe IBIOS, Université Paris
EstCréteil (UPEC)
France
elodie.da-silva@u-pec.fr

De La Cruz-Elizondo, Yadeneyro

Circuito Gonzalo Aquire Beltrán, Zona Universitaria,
Xalapa
México
yaro501@rocketmail.com

Decaens, Thibaud

ECODIV lab, University of Rouen, Mont Saint Aignan
France
thibaud.decaens@univ-rouen.fr

Dias, André T C

VU University Amsterdam, Department of Ecological
Science
The Netherlands
adidas@falw.vu.nl

Domínguez, Anahí

CONICET-UNRC
Argentina
adominguez.unrc@gmail.com

Dubs, Florence

UMR Bioemco - IRD - 32, Av. H Varagnat - 93143
Bondy
France
florence.dubs@ird.fr

Dupont, Lise

UMR BIOEMCO - Université Paris-Est Créteil
France
lise.dupont@u-pec.fr

Eijsackers, Herman

former chair SciAdv Council WUR, emer prof VU
Amsterdam, former CSO ministry EL&I
The Netherlands
Herman.Eijsackers@wur.nl

Erdő, Ádám

University of West Hungary, Sopron, Faculty of
Forestry
Hungary
adame6@gmail.com

Faber, Jack

Alterra,
part of Wageningen UR
Netherlands
jack.faber@wur.nl

Fernández Lago, MaríaDelCarmen

Departamento de Ecología y Biología Animal, Facultad
de Biología, Universidad de Vigo
Spain
carme@uvigo.es

Ferreira, Alberto

IMAR - CMA, Dept. Life Sciences, Apartado 3046,
University of Coimbra, 3001-401 Coimbra
Portugal
ajf@zoo.uc.pt

Filser, Juliane

University of Bremen, UFT, Department of Ecology
Germany
filser@uni-bremen.de

Frankenbach, Silja

ECT Oekotoxikologie GmbH
Germany
s.frankenbach@gmx.net

Frazaõ, Joana

Department of Soil Quality, Wageningen University
The Netherlands
joana.frazao@wur.nl

Frouz, Jan

Institute for Environmental studies Charles University,
Prague
Czech Republic
frouz@natur.cuni.cz

García Pérez, José Antonio

Facultad de Biología, Universidad Veracruzana,
Xalapa, Veracruz
México
garci95@hotmail.com

Gimenez, Rosana A

Plant Protection Area, Agriculture College, University
of Buenos Aires
Argentina
rgimenez@agro.uba.ar

Goncharov, Anton A N

Severtsov Institute of Ecology and Evolution
Russia
antonio.goncharoff@gmail.com

Gongalsky, Konstantin B

Severtsov Institute of Ecology and Evolution, Russian
Academy of Sciences
Russia
gongalsky@gmail.com

Gorshkova, Irina A N

Severtsov Institute of Ecology and Evolution
Russia
panchenkoi@yandex.ru

Gutiérrez López, Mónica

Departamento de Zoología y Antropología Física
Universidad Complutense de Madrid
Spain
mogutier@bio.ucm.es

Hasegawa, Motohiro

Forestry and Forest Products Research Institute
Japan
motohiro@ffpri.affrc.go.jp

Hassal, Mark

University of East Anglia
UK
M.Hassall@uea.ac.uk

Hedde, Mickaël

INRA UR251-PESSAC F-78026 Versailles
France
mhedde@versailles.inra.fr

Heiniger, Charlene

UMR Bioemco
France
charlene.heiniger@ird.fr

Höfer, Hubert

Staatliches Museum für Naturkunde Karlsruhe
Germany
hubert.hoefer@smnk.de

Hyodo, Fujio

Research Core for Interdisciplinary Sciences, Okayama
University
Japan
fhyodo@cc.okayama-u.ac.jp

Jänsch, Stephan

ECT Oekotoxikologie GmbH, Flörsheim, Germany
s-jaensch@ect.de

Jäschke, Barbara

Senckenberg Museum of Natural History Görlitz,
Project BiK-F
Germany
barbara_jaeschke@yahoo.de

Jilkova, Veronika

Institute for Environmental Studies, Charles
University, Prague
Czech Republic
jilkova.veronika@gmail.com

Jiménez, Juan J

Instituto Pirenaico de Ecología (IPE-CSIC)
Spain
jjjimenez@ipe.csic.es

Joimel, Sophie

Laboratoire Sols et Environnement, Université de
Lorraine, INRA UMR 1120, Vandoeuvre
France
sophie.joimel@ensaia.inpl-nancy.fr

Kaneda, Satoshi

National Institute for Agro-Environmental Sciences
Japan
skaneda@affrc.go.jp

Kaneko, Nobuhiro

Soil Ecology Research Group, Yokohama National
University
Japan
kanekono@ynu.ac.jp

Karaban, Kamil

Polish Academy of Sciences Centre for Ecological
Research
Poland
karaban.k@cbe-pan.pl

Korobushkin, Daniil

Severtsov Institute of Ecology and Evolution, Russian
Academy of Science, Leninsky prosp.33 Moscow
Russia
dkorobushkin@yandex.ru

Klauber Filho, Osmar

Centro de Ciências Agroveterinárias
Santa Catarina State University
Lages-SC
Brazil
klauber65@gmail.com

Krab, Eva

VU University Amsterdam
The Netherlands
e.j.krab@vu.nl

Krogh, Paul Henning

Department of Bioscience, Aarhus University
Denmark
phk@dmu.dk

Kuperman, Roman

Edgewood Chemical Biological Center, USA
roman.g.kuperman.civ@mail.mil

Lapied, Emmanuel

Bioforsk, Soil and Environment. Norwegian University
of Life Sciences
Norway
elapied@yahoo.com

Lavelle, Patrick

Institut de Recherche pour le
Développement UPMC CIAT
Colombia
patrick.Lavelle@ird.fr

Lehmitz, Ricarda Senckenberg

Museum of Natural History Görlitz
Germany
ricarda.lehmitz@senckenberg.de

Liu, Jing

Chinese Academy of Sciences,
China
jingliu_2012@yahoo.cn

Lobe, Joshua

University of Georgia, Odum School of Ecology
USA
jwlobe@gmail.com

Loureiro, Susana

Universidade de Aveiro, Dept. Biologia & CESAM
Portugal
sloureiro@ua.pt

Lubbers, Ingrid

Soil Biology and Biological Soil Quality, Wageningen
University
The Netherlands
ingrid.lubbers@wur.nl

Maboeta, Mark

North-West University (Potchefstroom Campus)
South Africa
mark.maboeta@nwu.ac.za

Martínez Morcillo, Salomé

Lab Ecotoxicology, Fac. Environm Sci & Biochem,
Univ Castilla-La Mancha, Toledo
Spain
Salome.Martinez@uclm.es

Martins da Silva, Pedro

IMAR - CMA, Dept. Life Sciences, Apartado 3046,
University of Coimbra, 3001-401 Coimbra
Portugal
pgpmartins@yahoo.co.uk

Melecis, Viesturs

Institute of Biology, University of Latvia
Latvia
vmelecis@email.lubi.edu.lv

Menke, Ulrich

Bayer Crop Science, BCS-D-EnSa-Ecotoxicology,
Alfred-Nobel-Str. 50, Geb. 6620, D-40789 Monheim
Germany
ulrich.menke@bayer.com

Mendes, Sara

IMAR - CMA, Dept. Life Sciences, Apartado 3046,
University of Coimbra, 3001-401 Coimbra
Portugal
sara.mendes@gmail.com

Menezes-Oliveira, Vanessa

Cesam & Departament of Biology,
University of Aveiro
Portugal
vanessa.menezes@ua.pt

Nakamori, Taizo

Yokohama National University
Japan
taizo@ynu.ac.jp

Natal-da-Luz, Tiago

IMAR - CMA, Dept. Life Sciences, Apartado 3046,
University of Coimbra, 3001-401 Coimbra
Portugal
tiagonluz@iav.uc.pt

Niedbala, Wojciech

Adam Mickiewicz University
Poland
niedbala@amu.edu.pl

Niemeyer, Julia

Universidade Federal da Bahia, Rua Barão do
Geremoabo, s/n - Instituto de Biologia - Lab. Do
Marenba, Ondina, 40170-290 - Salvador, BA
Brazil
juliacarina@yahoo.com.br

Niva, Cintia

PNPD/CNPq, Embrapa Forestry
Brazil
cintiacn@gmail.com

Owojori, Olugbenga

ECT Oekotoxikologie GmbH, Böttgerstrasse 2-14, D-
65439 Flörsheim am Main
Germany
gbengaowojoji@yahoo.com

Peham, Thomas

University of Innsbruck, Institute of Ecology,
Technickerstr. 25, 6020 Innsbruck
Austria
thomas.peham@uibk.ac.at

Pereira, Carla

IMAR - CMA, Dept. Life Sciences, Apartado 3046,
University of Coimbra, 3001-401 Coimbra
Portugal
carlasofiaropereira@gmail.com

Pereira, Ruth

Department of Biology, University of Oporto, 4169-
007 Oporto & CESAM, University of Aveiro
Portugal
ruthp@ua.pt

Persson, Tryggve

Dept of Ecology, Swed. Univ. Agric. Sciences, Uppsala
Sweden
Tryggve.Persson@slu.se

Petersen, Henning

Natural History Museum, Aarhus: Mols Laboratory
Denmark
henning@molslab.dk

Pey, Benjamin

French national institute for agronomical research/
French foundation for biodiversity research
France
benjamin.pey@versailles.inra.fr

Pinto, Stefania

University of Parma
Italy
stefania.pinto@studenti.unipr.it

Pizl, Vaclav

Institute of Soil Biology, Biology Centre AS CR, Na
Sadkach 7, CZ-37005 Ceske Budejovice
Czech Republic
pizl@upb.cas.cz

Porco, David

Université de Rouen - Laboratoire ECODIV
France
david.porco.gm@gmail.com

Puga Freitas, Ruben

UMR BIOEMCO, Université Paris-EstCréteil,
France
ruben.puga-freitas@u-pec.fr

Pulleman, Mirjam

Wageningen University, Department of Soil Quality
The Netherlands
mirjam.pulleman@wur.nl

Quadros, Aline F

FB Organismische Biologie, Paris-Lodron-Universität
Salzburg
Austria
quadros.af@gmail.com

Querner, Pascal

University of Natural Resources and Life Sciences,
Institute of Zoology
Austria
pascal.querner@boku.ac.at

Ranera, Ester

Departamento de Zoología y Antropología Física.
Universidad Complutense de Madrid.
Spain
ester.ranera@gmail.com

Renaud, Jean Mathieu

IMAR - CMA, Dept. Life Sciences, Apartado 3046,
University of Coimbra, 3001-401 Coimbra
Portugal
jeanmathieubr@gmail.com

Richard, Freddie-Jeanne

University of Poitiers - EBI UMR CNRS 7267
France
freddie.jeanne.richard@univ-poitiers.fr

Rief, Alexander

University of Innsbruck, Institute of Ecology,
Technikerstr. 25, 6020 Innsbruck
Austria
alexander.rief@uibk.ac.at

Römbke, Jörg

ECT Oekotoxikologie GmbH, Flörsheim am Main,
Germany
j-roembke@ect.de

Rozen, Anna

Institute of Environmental Sciences, Jagiellonian
University, Krakow
Poland
anna.rozen@uj.edu.pl

Ruiz Camacho, Nuria

IRD (Institut de Recherche pour le Développement)
France
nuria.ruiz@free.fr

Russell, David

Senckenberg Museum of Natural History Goerlitz
Germany
david.russell@senckenberg.de

Sabatini, Maria Agnese

Dipartimento di Biologia, Via Campi 213/D, Università
di Modena e Reggio Emilia
Italy
sabatini@unimore.it

Santos, Sónia

CIMO, School of Agriculture, Polytechnic Institute of
Bragança, Campus St Apolónia, 5301-855 Bragança
Portugal
saps@ipb.pt

Sañudo, Diana María Castillo

IMAR - CMA, Dept. Life Sciences, Apartado
3046, University of Coimbra, 3001-401 Coimbra
Portugal
dianamariacastillo@gmail.com

Sautter, Klaus Dieter

Programa de Pós-Graduação em Gestão Ambiental;
Universidade Positivo
Brazil
ksautter@up.com.br

Schlaghamersky, Jiri

Masaryk University, Faculty of Science, Dept of
Botany and Zoology
Czech Republic
jiris@sci.muni.cz

Schmelz, Rüdiger

ECT Oekotoxikologie GmbH, Flörsheim am Main,
Germany
rmschmelz@googlemail.com

Schneider, Anne-Kathrin

Technische Universität München, Landscape Ecology,
Emil-Ramann-Str. 6, 85354 Freising-Weihenstephan
Germany
anne-kathrin.schneider@tum.de

Schrama, Maarten

Netherlands Institute of Ecology (NIOO)
The Netherlands
M.Schrama@nioo.knaw.nl

Seeber, Julia

Institute of Ecology, University of Innsbruck,
Technikerstrasse 25, 6020 Innsbruck
Austria
Julia.Seeber@uibk.ac.at

Semenina, Eugenia

Inst. Evolution and Ecology RAS, Moscow
Russia
sz-85@mail.ru

Semenyuk, Irina

A.N. Severtsov Institute of Ecology and Evolution, 33
Leninskijprosp., Moscow, 119071
Russia
free-cat@bk.ru

Shilenkova, Oksana

Laboratory of Soil Zoology, Institute of Ecology and
Evolution, Leninsky pr. 33, Moscow
Russia
shill.oks@mail.ru

Shrubovych, Julia

Institute of Systematics and Evolution of Animals PAS
Slawkowska 17, PI 31-016, Krakow
Poland
shrubovych@gmail.com

Silva, Ana Luísa

Department of Biology & CESAM. University of Aveiro,
3810-193 Aveiro
Portugal
ana.luisa.silva@ua.pt

Smrž, Jaroslav

Department of Zoology Faculty of Science Charles
University, Praha
Czech Republic
smrz@cesnet.cz

Sousa, José Paulo

IMAR - CMA, Dept. Life Sciences, Apartado 3046,
University of Coimbra, 3001-401 Coimbra
Portugal
jps@zoo.uc.pt

Spaldonova, Alexandra

Institute for Environmental Studies, Faculty of
Science, Charles University in Prague
Czech Republic
alexafre@seznam.cz

Stephenson, Gladys

Stantec Consulting Ltd
Canada
gladys.stephenson@stantec.com

Sterzynska, Maria

Museum and Institute of Zoology PAS, 00-679
Warsaw, Wilcza 64
Poland
majka@miiz.waw.pl

Straube, Daniela

University of Innsbruck, Institute of Ecology,
Technikerstrasse 25, 6020 Innsbruck
Austria
daniela.straube@uibk.ac.at

Tajovsky, Karel

Institute of Soil Biology BC AS CR, Ceske Budejovice
Czech Republic
tajov@upb.cas.cz

Tao, Yan

College of Urban and Environmental Sciences,
Northeast Normal University, Changchun 130024
PR China
taoy431@nenu.edu.cn

Tiunov, Alexei

Inst. Ecology and Evolution RAS, Moscow
Russia
a_tiunov@mail.ru

Tourinho, Paula

University of Aveiro
Portugal
paulatourinho@ua.pt

Uvarov, Alexei

Institute of Ecology & Evolution, Russian Academy of
Sciences, Moscow
Russia
av.uvarov@hotmail.com

van Gestel, C A M

Department of Ecological Science, VU University,
Amsterdam
The Netherlands
Kees.van.gestel@falw.vu.nl

Van Groenigen, Jan Willem

Wageningen University, Department of Soil Quality
The Netherlands
janwillem.vangroenigen@wur.nl

Su, Xin

Northeast Institute of Geography and Agroecology,
Chinese Academy of Sciences
China
sunxin@neigae.ac.cn

Vázquez, María Magdalena

Universidad de Quintana Roo
México
marvazqu@uqroo.mx

Winkler, Daniel

University of West Hungary, Sopron, Institute of
Wildlife Management and Vertebrate Zoology
Hungary
dwinkler@emk.nyme.hu

Wu, Donhui

Northeast Institute of Geography and Agroecology,
Chinese Academy of Sciences
China
wudonghui@neigae.ac.cn

Yoshida, Tomohiro

Field Science Center, Faculty of Agriculture, Tokyo
University of Agriculture and Technology
Japan
yoshitom@cc.tuat.ac.jp

Zangerlé, Anne

Technische Universität München, Emil-Ramann-Str. 6,
85354 Freising
anne.zangerle@tum.de

Zaytsev, Andrey

A.N.Severtsov Institute for Ecology and Evolution,
Justus-Liebig-University Giessen
Russia / Germany
andrey.zaytsev@hotmail.com

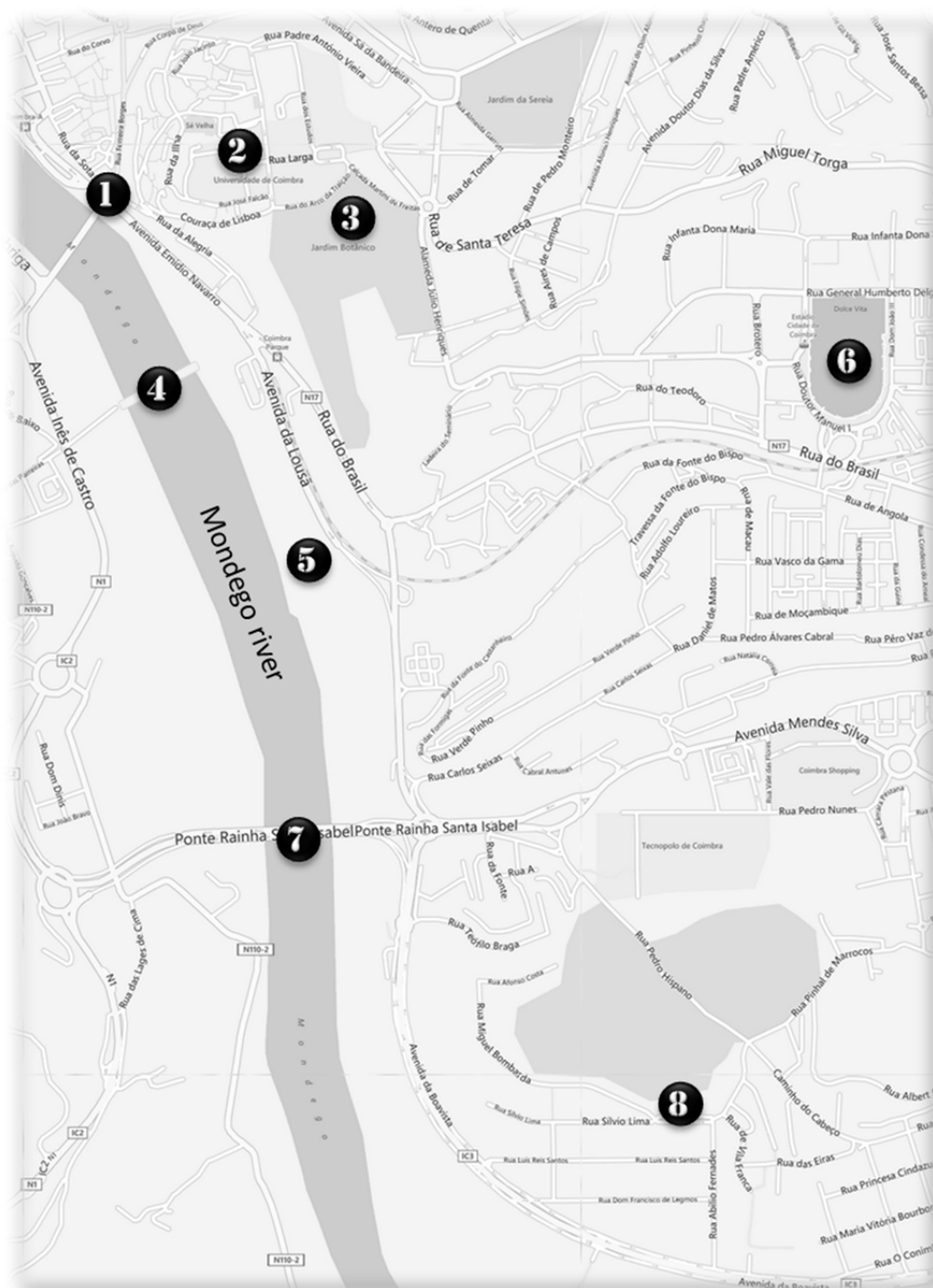
Zhang, Bing

Northeast Institute of Geography and Agroecology,
Chinese Academy of Sciences,
China
zhangbing5538@hotmail.com

Zimmer, Martin

Paris-Lodron-Universität Salzburg
Austria
martin.zimmer@sbg.ac.at

- Map -



- | | | | |
|----------|------------------------------|----------|------------------------------------|
| 1 | PORTAGEM SQUARE | 5 | PAVILHÃO CENTRO DE PORTUGAL |
| 2 | UNIVERSITY OF COIMBRA | 6 | COIMBRA CITY STADIUM |
| 3 | BOTANICAL GARDEN | 7 | RAINHA SANTA BRIDGE |
| 4 | PEDESTRIAN BRIDGE | 8 | FCTUC (CAMPUS II) |

**5 PAVILHÃO CENTRO
DE PORTUGAL**
Welcome reception

Avenida da Lousã
(Parque Verde do Mondego)
Coimbra

GPS:
40°12'36.28"N
8°25'24.76"W



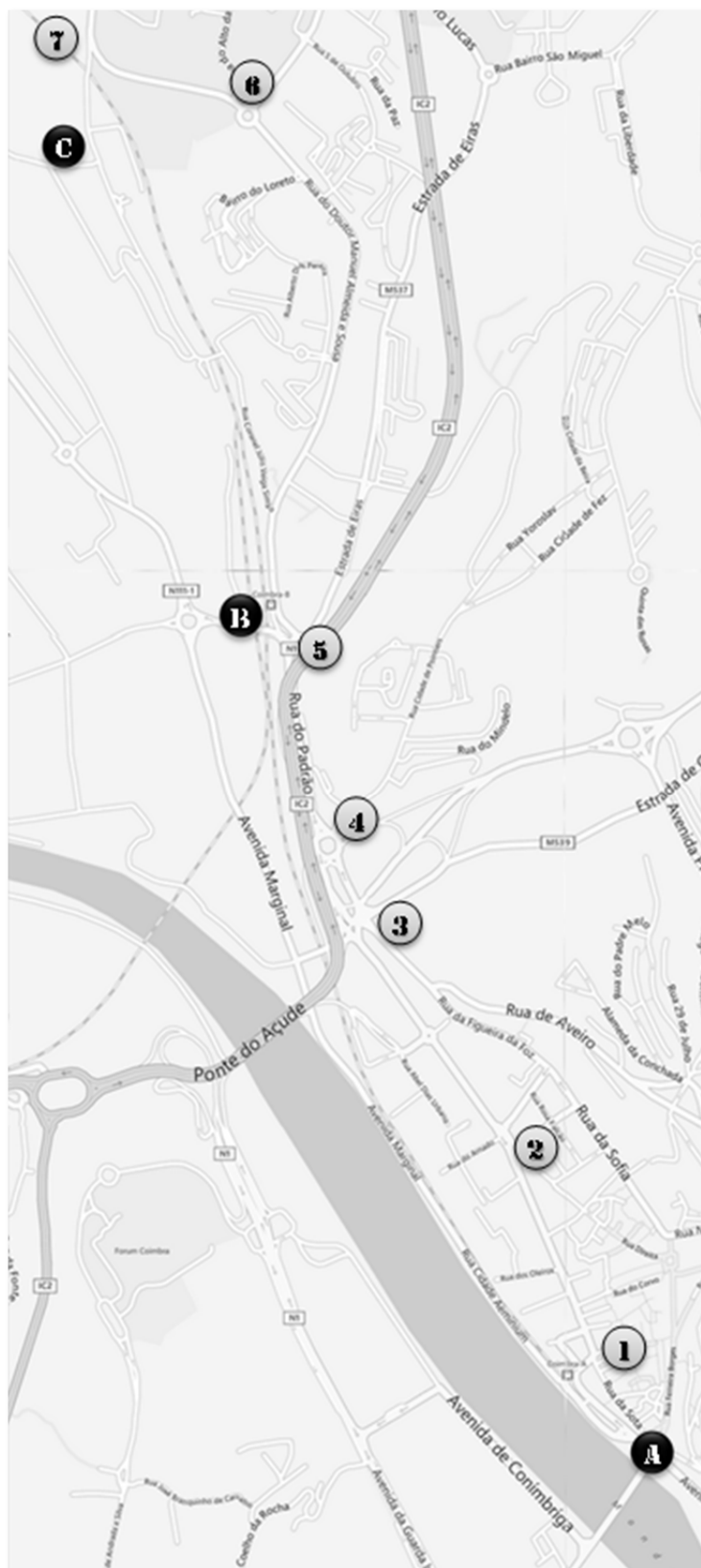
8 FCTUC (CAMPUS II)
Colloquium site

Rua Sílvio Lima
Pólo II da Universidade de Coimbra
3030-790 Coimbra, Portugal

GPS:
40°11'11.47"N
8°24'44.50"W



GETTING TO THE COLLOQUIUM DINNER: (FROM PORTAGEM SQUARE)



- 1** Leave Portagem Square, NW to Av. Emídio Navarro and after to Av. Fernão de Magalhães; after an elbow curve, keep going straight ahead for 400m.

- 2** Pass the traffic lights and, after 300m, take the second exit at the roundabout.

- 3** After the next traffic lights, follow the direction "Eiras".

- 4** At the roundabout, take the third exit and keep following the direction "Eiras".

- 5** At the roundabout, take the second exit to Rua Manuel de Almeida e Sousa.

- 6** After 1,5km, take the second exit at the roundabout.

- 7** After 600m, turn left at a sharp-elbow curve; cross the railway line – after 150m reach Quinta do Loreto.

A PORTAGEM SQUARE

B COIMBRA-B TRAIN STATION

C QUINTA DO LORETO
Colloquim dinner



Estrada do Loreto
3000 COIMBRA

GPS:
40°14'3.24"N
8°26'43.20"W

