

Monday, August 22<sup>th</sup> - Registration / Session-1: Soil biodiversity under global environmental changes

## ICSZ- Scientific and Social Programs -

MONDAY, August 22th

10:00h - 12:00h Registration

Opening

13:00h - 13:20h *Nobuhiro Kaneko, Hiroshi Takeda*

13:40h - 14:15h Soil biodiversity: The Big Science of the Small Creatures Mo\_OP  
*Maria J. I. Briones*

### Session-1: Soil biodiversity under global environmental changes

*Chair: Jan Frouz, Katarina Hedlund*

14:15h - 14:50h Macroinvertebrate communities as indicators and actors of global environment change. A worldwide survey with the MACROFAUNA database Mo\_S1\_KN1

*Patrick Lavelle, J. Mathieu, Emmanuel Lapied, Nuria Ruiz, Adriana de Aquino, Isabelle Barois, Edmundo Barrios, Jose Camilo Bedano, Eric Blanchart, Cesar Botero, George G. Brown, Yamileth Chagüeza, Jun Dai, Thibaud Decaens, Anahi Dominguez, Yamileth Dominguez, Alex Feijoo, Carlos Fragoso, Steve Fonte, Federico Gavinelli, Brian Isabirye, Juan Jose Jimenez, Johanne Nahmani, Nobuhiro Kaneko, Doyle Mc Key, Kamrigne Laossi, Jerome Mathieu, Clara Melo, Sarah Mendes, Sheila Okoth, Maurizio Paoletti, Catarina Praxedes, Carolina Quintero, KS Rao, Delphine Renard, Catalina Sanabria, Bikram Senapati, Jose Paulo de Sousa, Jerome Tondoh, Stéphanie Tselouiko, Elena Velasquez, Stella Zerbino, Anne Zangerlé, Chi Zhang*

14:50h - 15:10h Coffee break

15:10h - 15:25h The macrofauna and mesofauna of a soil contaminated by oil extraction Mo\_S1\_O1

*Isabelle Barois, Silvia M. Contreras-Ramos, Benito Hernández-Castellanos, Antonio Gomez-Anaya, Isis Maviel Castillo-Murrieta, David Garcia-Segura, Froylan Martinez-Rabelo*

15:25h - 15:40h Exploring the potential of ground-dwelling beetle species for detection of climatic warming effects with data from a nationwide long-term monitoring survey in Japanese forests Mo\_S1\_O2

*Shigeru Niwa, Ayu Toyota*

15:40h - 15:55h Will life be tougher in the tropics? Mo\_S1\_O3  
Latitudinal variation in vulnerability to climate change.

*Charlene Janion-Scheepers, Carla Sgrò, Steven L. Chown*

15:55h - 16:10h Functional diversity of soil invertebrates: a potential tool to explain N<sub>2</sub>O emission? Mo\_S1\_O4

*Ingrid Lubbers, Rima Porre, Gerlinde De Deyn, Ron de Goede, Jan Willem van Groenigen*

16:10h - 16:25h Effects of a combination of soil moisture levels and an insecticide on invertebrates (Oligochaeta, Arthropoda) and their feeding rate in Terrestrial Model Ecosystems (TME) Mo\_S1\_O5

*Cornelia Bandow, Pascale Lorenz, Tiago Natal-da-Luz, Rüdiger Schmelz, José Paulo Sousa, Jörg Römbke*

16:25h - 16:40h The BonaRes Centre – A virtual institute for synthesis and provision of soil-related information, models and decision support tools in the context of a sustainable bio-economy Mo\_S1\_O6

*D. J. Russell, B. Lang, U. Wollschläger, H.-J. Vogel, K. Helming, U. Heinrich, I. Kögel-Knabner, E. Eberhardt*

17:00h - 19:00h Welcome drink

Tuesday, August 23<sup>th</sup> -Session-1: Soil biodiversity under global environmental changes

Session-2: Taxonomy and biodiversity of soil animals

Poster session (Session 3)

TUESDAY, August 23<sup>th</sup>

**Session-1: Soil biodiversity under global environmental changes (cont.)**

*Chair: Anna M. Rožen, Maria J. Iglesias Briones*

09:00h - 09:35h Oribatid mites in uniform environments: local disturbances and intense site management overshadow effects of macrogeographic gradients Tu\_S1\_KN2

*Andrey S. Zaitsev*

09:35h - 09:50h Characteristics of microarthropods communities in topsoil across various forest, agricultural, urban and industrial land uses in France Tu\_S1\_O7

*Sophie Joimel, Christophe Schwartz, Alan Vergnes, Sayuri Tatiana Kiyota Beltran, Jérôme Cortet*

09:50h - 10:05h Feedbacks of a couple of eco-informatic tools for soil invertebrate functional traits: an example of interoperability by semantic data integration Tu\_S1\_O8

*Benjamin Pey, Baptiste Laporte, Marie-Angélique Laporte, Johanne Nahmani, Apolline Auclerc, Yvan Capowiez, Jérôme Cortet, Florence Dubs, Sophie Joimel, Sandrine Salmon, Mickaël Hedde, the BETSI consortium*

10:05h - 10:20h EDAPHOLOG monitoring system: automatic, real-time detection of soil microarthropods Tu\_S1\_O9

*Miklós Dombos, Norbert Flórián, Zita Groó, Péter Dudás, Beáta Oláh-Hambek, András Kosztolányi*

10:20h - 10:40h Coffee break

**Session-2: Taxonomy and biodiversity of soil animals**

*Chair: Sina Adl, Chuleui Jung*

10:40h - 11:15h Molecular phylogeny and evolution of two soil arthropod groups, Myriapoda and Apterygota (Hexapoda) Tu\_S2\_KN1

*Hideyuki Miyazawa, Zhi-Hui Su, Go Sasaki*

11:15h - 11:30h Detailed screening of soil nematode diversity using a tiered DNA metabarcoding approach Tu\_S2\_O1

*B.S. Griffiths, G.A. de Groot, S. Geisen*

11:30h - 11:45h Evolution of extreme life history traits in the Australian *Amitermes* group Tu\_S2\_O2

*Tamara R Hartke, Bastian Heimberger*

11:45h - 13:00h Lunch

13:00h - 13:35h Highlighting earthworm biodiversity hotspots in French Guiana Tu\_S2\_KN2

*Thibaud Decaëns, David Porco, Samuel W. James, Elodie Da Silva, Lise Dupont, Emmanuel Lapied, Rodolphe Rougerie, Virginie Roy*

13:35h - 13:50h Cryptic diversity within the nominal earthworm species, *Pontoscolex corethrurus* Tu\_S2\_O3

*S. Taheri, S. W. James, T. Decaëns, V. Roy, R. Rougerie, B. Williams, F. Anderson, G. G. Brown, L. Cunha, E. Da Silva, C.H. Chang, L. Dupont*

13:50h - 14:05h Genetic variation in European *Lepidocyrtus* (Collembola: Entomobryidae) as indicated by nuclear and mitochondrial markers Tu\_S2\_O4

*Bing Zhang, Ina Schaefer, Ting-Wen Chen, Stefan Scheu*

14:05h - 14:20h Growth-related morphological variation leads to taxonomic confusion in *Mongoloniscus* species (Crustacea, Isopoda, Oniscidea) Tu\_S2\_O5

*Ryutaro Tanaka, Shigenori Karasawa*

14:20h - 14:35h Taxonomic revision of genus *Trichogalumna* (Acari, Oribatida, Galumnidae) in Japan Tu\_S2\_O6

*Wataru Hagino, Satoshi Shimano*

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	Tuesday, August 23 <sup>th</sup> -Session-1: Soil biodiversity under global environmental changes	
	Session-2: Taxonomy and biodiversity of soil animals	
	Poster session (Session 3)	
14:35h - 14:50h	Community structure of Gamasid Mites in the riparian grassland ecosystem of Nakdong River, Korea <i>Eunsun Keum, Chuleui Jung</i>	Tu_S2_O7
14:50h - 15:05h	Biodiversity in space: Collembola of coniferous litter <i>Nataliya A. Kuznetsova, Anna K. Saraeva</i>	Tu_S2_O8
15:05h - 15:20h	Coffee break	
15:20h - 16:40h	<b>Poster Session 3 Core Time</b>	
	Bacteria consumption by soil protists is central to nutrient cycling <i>Sina Adl</i>	Tu_S3_P1
	Characteristic species complexes of testate amoebae (Rhizopoda, Testacea) in mesoeutrophic mires of the middle and south taiga of Western Siberia <i>Irina Kurina, Nina Klimova</i>	Tu_S3_P2
	Soil nematodes as indicator of the arable land - their limitation <i>Masaaki Araki</i>	Tu_S3_P3
	Effects of land-use intensity on the community composition of nematodes from Cao Bang Province in Vietnam <i>Thi Anh Duong Nguyen, Reyes Peña-Santiago, Michael Bonkowski</i>	Tu_S3_P4
	Impacts of agronomic practices on bacterivorous nematode-induced benefits on rice growth and nutrition in Madagascar <i>Patricia Mahafaka Ranoarisoa, Eric Blanchart, Lilia Rabeharisoa, Claude Plassard, Jean Trap</i>	Tu_S3_P5
	Mycovirus transmission by the mycetophagous nematode, <i>Filenchus discrepans</i> <i>Takuo Sawahata Atsuko Sasaki, Hitoshi Nakamura, Hiroaki Okada, Shuhei Takemoto, Satoko Kanematsu</i>	Tu_S3_P6
	Hypal feeding by tardigrades <i>Macrobiotus hufelandi</i> and <i>Hypsibius</i> sp. <i>Takuo Sawahata, Masamichi Ito</i>	Tu_S3_P7
	Increases in earthworm density and biomass under no-tillage management in Japan: Consequences on soil aggregates and carbon <i>Miwa Arai, Yukio Minamiya, Toshiko Miura, Nobuhiro Kaneko</i>	Tu_S3_P8
	Temporal dynamics of earthworm communities and associated burrow systems in tilled and non-tilled cropping systems <i>C. Pelosi, G. Grandeau, Y. Capowiez</i>	Tu_S3_P9
	Effects of abiotic factors, soil temperature and moisture, and biotic factor, regional population, on soil aggregate formation rate by the earthworm <i>Eisenia japonica</i> (Michaelson, 1892) <i>Satoshi Kaneda, Yasumi Yagasaki, Gen Sakurai, Seiichiro Yonemura, Shinji Ohkubo, Rota Wagai</i>	Tu_S3_P10
	Do shelterbelts increase nematode and earthworm abundance? <i>Maxime Rivest, Joann K. Whalen, David Rivest</i>	Tu_S3_P11
	Different litter types affect the life-history of Alpine earthworms <i>Michael Steinwandter, Stefanie Jäger, Birgit Schlick-Steiner, Ulrike Tappeiner, Julia Seeber</i>	Tu_S3_P12
	Annelids of micro-wetlands and adjacent grasslands along a mineral-richness and pH gradient in the Western Carpathians <i>Jiri Schläghamersky, Jana Schenkova, Martina Bilkova, Vendula Polaskova, Michal Horsak, Vaclav Pizl</i>	Tu_S3_P13
	The effect of bird cliffs on soil-dwelling Enchytraeidae (Annelida: Clitellata) on the Arctic island of Spitzbergen <i>Jiri Schläghamersky, Miloslav Devetter</i>	Tu_S3_P14

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Tuesday, August 23<sup>th</sup> -Session-1: Soil biodiversity under global environmental changes  
 Session-2: Taxonomy and biodiversity of soil animals  
 Poster session (Session 3)

- Dynamic observation of earthworm respiration Tu\_S3\_P15  
*Seiichiro Yonemura, Satoshi Kaneda, Naomi Kodama*
- Interactions between earthworms and mesofauna affect on CO<sub>2</sub> and N<sub>2</sub>O emissions from an arable soil Tu\_S3\_P16  
*Xinyu Zhu, Jiujiu Li, Jie Liu, Liang Chang, Biao Gao, Donghui Wu*
- Cooperation of oligochaete, *Thalassodrilides* cf. *briani* with indigenous microorganisms is an essential factor for degradation of some polycyclic aromatic hydrocarbons (PAHs) in sediment Tu\_S3\_P17  
*Mana Ito, Katsutoshi Ito, Takeshi Hano, Motoharu Uchida, Kazuhiko Mochida*
- Transformation of soluble polyphenols during gut passage of soil macrofauna Tu\_S3\_P18  
*Jan Frouz, Kateřina Jandová, Jabbar Moradi*
- Effects of past land use and surrounding landscape on ground-dwelling spider assemblages in regenerated forests Tu\_S3\_P19  
*Takashi F. Haraguchi, Hisatomo Taki, Motohiro Hasegawa, Toshiya Matsuura, Kimiko Okabe*
- Impact of canopy openness on epigeal spider communities with implications on conservation management of forest biodiversity Tu\_S3\_P20  
*Ondřej Košulič, Radek Michalko, Kamila Surovcová, Vladimír Hula*
- Ground dwelling arthropod assemblages during succession stages of a commercial lowland forest Tu\_S3\_P21  
*Ondřej Košulič, Radek Michalko, Luboš Purchart, Maria Larionova, Kamila Surovcová*
- Mating triggers elimination of queens by workers of Japanese harvester ant (*Messor aciculatus*) Tu\_S3\_P22  
*Satoshi Koyama, Mamoru Takata*
- Wildfire effects on soil macrofauna across a latitudinal gradient in European Russia Tu\_S3\_P23  
*D. I. Korobushkin, A. Yu. Gorbunova, K. B. Gongalsky*
- The role of aquatic subsidy in the energy of terrestrial soil invertebrates Tu\_S3\_P24  
*D. I. Korobushkin, A. Yu. Korotkevich, A. A. Tiunov*
- Database analyses: Energetic implications of environmental warming for terrestrial food webs Tu\_S3\_P25  
*Birgit Lang, Roswitha Ehnes, Ulrich Brose, Björn C. Rall*
- Effects of food addition on litter invertebrate assemblages in Japanese conifer plantations Tu\_S3\_P26  
*Tomohiro Yoshida, Namie Saito, Yoshiko Ayabe*
- Foraging strategy in tropical millipedes Tu\_S3\_P27  
*Irina I. Semenyuk*
- The comparative activity of epigeic arthropods in natural ecosystems in Central Russia Tu\_S3\_P28  
*Rimma R. Seyfulina*
- The response of soil fauna to habitation heterogeneity in *Betula ermanii* forest- tundra of the Changbai Mountain, China Tu\_S3\_P29  
*Yan Tao, Xiuqin Yin*
- Effect of electrochemical remediation on soil fauna in ex-Lake Texcoco, México Tu\_S3\_P30  
*Daniela Pérez-Velásquez, Alicia Callejas-Chavero, José G. Palacios-Vargas, Abel Ibáñez-Huerta, Erika Bustos, Gabriela Castaño-Meneses*

Tuesday, August 23<sup>th</sup> -Session-1: Soil biodiversity under global environmental changes  
 Session-2: Taxonomy and biodiversity of soil animals  
 Poster session (Session 3)

Sensitivity of soil fauna communities to different management regimes in kiwi fruit orchards <i>MCF Lago, ME Barreal, PP Gallego, MJI Briones</i>	Tu_S3_P31
Changes in soil fauna populations during kiwifruit production cycle in response to different agricultural managements <i>MCF Lago, ME Barreal, PP Gallego, MJI Briones</i>	Tu_S3_P32
Structure and diversity of soil fauna communities under contrasting climates and agricultural managements <i>J Castro, ME Barreal, PP Gallego, MJI Briones</i>	Tu_S3_P33
Soil foodweb structure as an indicator of nitrogen use efficiency in conservation agriculture <i>Kousuke Inouye, Hiroshi Ikeda, Sigeru Niwa, Yukio Minamiya, Tomonori Tsunoda, Toshiko Miura, Nobuhiro Kaneko</i>	Tu_S3_P34
Soil animal population in relation to unfertilized vegetable cultivation <i>K. Miyazawa, Y. Chen, S. Ishiguro, J. White Springer</i>	Tu_S3_P35
Interactions between above-ground and below-ground insect herbivores influence corn secondary metabolites: a case study in China <i>Jin-wen Liu, Jie Liu, Jiu-jia Li, Mei-xiang Gao, Dong-hui Wu</i>	Tu_S3_P36
Flowering plant impacts the response of natural physiological behavior of a soil macrofauna (Elateridae: <i>Agriotes subrittatus</i> Motschulsky) in farmland, China <i>Li-chao Feng, Feng-kai Huang, Dong-hui Wu</i>	Tu_S3_P37
Relative contribution of environmental filtering and dispersal limitation in a soil mite community from the farmland ecosystem of Changchun, Northeast of China <i>Jie Liu, Meixiang Gao, Jinwen Liu, Jiujiu Li, Donghui Wu</i>	Tu_S3_P38
Soil mites' community in five microenvironments in a Zapotitlán Salinas Valley degraded dryland <i>Daniel Isaac Sánchez Chávez, Salvador Rodríguez Zaragoza</i>	Tu_S3_P39
Network architecture of macrofungus–fungivorous Collembola interactions in a <i>Larix kaempferi</i> forest in Japan <i>Taizo Nakamori, Aoi Tanaka</i>	Tu_S3_P40
Response of collembolans to the termination of belowground C allocation in a spruce forest <i>Anton M. Potapov, Anastasia Yu. Korotkevich</i>	Tu_S3_P41
Interactions between Collembola and soil microorganisms: effects of glyphosate herbicide degradation <i>June Wee, Yun-Sik Lee, Yongeun Kim, Hyoung-ho Mo, Kijong Cho</i>	Tu_S3_P42
The toxic effects of different particle sized zinc oxide on terrestrial springtail and nematode test organisms <i>Lola Virág Kiss, Krisztina Hrács, Péter István Nagy, Anikó Seres</i>	Tu_S3_P43
Spatial and environmental determinants contribute to patterns of local soil collembolan communities across spatial scales <i>David J. Russell, Veronika Gergócs</i>	Tu_S3_P44
Ecological species' models within the Edaphobase project of Germany <i>D. J. Russell, J. Hausen, U. Burkhardt, H. Höfer, S. Lesch, R. Ottermanns, S. Rick, S. Jänsch, M. Roß-Nickoll, B. Scholz-Starke</i>	Tu_S3_P45
Automatic measuring of body size on Mesofauna <i>Zita Groó, Norbert Flórián, Oxána Bánszegi, Miklós Dombos</i>	Tu_S3_P46

Tuesday, August 23<sup>th</sup> -Session-1: Soil biodiversity under global environmental changes  
 Session-2: Taxonomy and biodiversity of soil animals  
 Poster session (Session 3)

- Litter mixture effects on microbial biomass and microarthropod colonization in a tropical montane rain forests in Southern Ecuador  
*Laura Margarita Sánchez-Galindo, Olaf Butenschön, Franca Marian, Dorothee Sandmann, Valentyna Krashevskaya, Mark Maraun, Stefan Scheu* Tu\_S3\_P47
- Soil microarthropods in young reforestation areas planted with Dipterocarpus seedlings inoculated with ectomycorrhizal fungi  
*Chatchawan Chaisuekul, Nipada Ruankaew Disyatat, Chadaphorn Sewewallop* Tu\_S3\_P48
- Effect of decomposer diversity on litter decomposition  
*Florian Kitz, Michael Steinwandter, Michael Traugott, Ulrike Tappeiner, Julia Seeber* Tu\_S3\_P49
- The effect of extreme drought on decomposition varies between species, plant parts (leaves vs. roots) and soil depth in a sand grassland  
*Anikó Seres, Péter István Nagy, Judit Szakálas, Gergely Boros, Gábor Ónodi, György Kröel-Dulay* Tu\_S3\_P50
- The influence of soil fauna on decomposition of *Dryas octopetala* in the tundra of the Changbai Mountains, China  
*Xiuqin Yin, Yan Tao, Chen Ma* Tu\_S3\_P51
- Fatty acids analyses to detect feeding behaviour of a generalist root chewing insect, *Anomala cuprea* (Coleoptera: Scarabaeidae) larva: the insect selectively fed on the diets with high nitrogen content  
*Tomonori Tsunoda, Jun-Ichirou Suzuki, Nobuhiro Kaneko* Tu\_S3\_P52
- Effect of primary forest remnants on feeding habits of ants in secondary forests revealed by stable and radio isotope techniques.  
*Fujio Hyodo, Keiko Kishimoto-Yamada, Masayuki Matsuoka, Hiroshi O. Tanaka, Yoshiaki Hashimoto, Reiichiro Ishii, Takao Itioka* Tu\_S3\_P53
- Compound-specific amino acid analyses (<sup>13</sup>C and <sup>15</sup>N) as a novel tool to investigate trophic interactions in soil  
*M.M. Pollierer, T. Larsen* Tu\_S3\_P54
- Interactions between soil macrodetritivores and litter functional trait identity matter in meadow litter decomposition  
*Cécile Trâm, Pablo Cruz, Mickaël Hedde, Claire Jouany, Eric Lecloux, Johanne Nahmani, Eric Chauvet, Antoine Lecerf, Benjamin Pey* Tu\_S3\_P55
- Soil fauna community consequence of interspecific bark trait dissimilarity  
*Juan Zuo, Matty P. Berg, Mariet M. Hefting, Johannes H. C. Cornelissen* Tu\_S3\_P56
- Radiocesium (<sup>137</sup>Cs) concentration of epigeic earthworms in Fukushima:  
 Trends in 4.5 years after the accidents.  
*Motohiro Hasegawa, Shinji Kaneko, Shigeto Ikeda, Akio Akama, Masabumi Komatsu, Naohiro Imamura, Masamichi T. Ito* Tu\_S3\_P57
- Transfer parameter values of radiocesium effects of mycophagous animals  
*Natsuki Watanabe, Nobuhiro Kaneko* Tu\_S3\_P58

Wednesday, August 24<sup>th</sup> -Session-3: Ecology of soil animals and their ecosystem function  
 Poster session (Session 1, 2, 4)

WEDNESDAY, August 24<sup>th</sup>

**Session-3: Ecology of soil animals and their ecosystem function**

*Chair: Bryan Griffiths, Ingrid Lubbers, Andrey S. Zaitsev,  
 Fujio Hyodo*

09:00h - 09:35h	The effect of soil macro and mesofauna on litter decomposition and nutrient cycling <i>Jan Frouz</i>	We_S3_KN1
09:35h - 09:50h	Diversity of soil biota and ecosystem services in burned forests across European Russia <i>K.B. Gongalsky, A.S. Zaitsev, K.O. Butenko, A.Yu. Gorbunova, I.A. Gorshkova, M.I. Degtyarev, D.I. Korobushkin, N.V. Kostina, A.A. Rakhleeva, R.A. Saifutdinov, S.V. Shakhab, T.E. Yazrikova, A.N. Zhadova</i>	We_S3_O1
09:50h - 10:05h	Surface active and soil Collembola influenced by habitat and landscape parameters at different special scales in Austrian vineyards <i>Pascal Querner, Hans Zaller, Jacob Buchholz, Silvia Winter, Sophie Kratschmer, Peter Strauss</i>	We_S3_O2
10:05h - 10:20h	Drought response of soil invertebrate composition in the Central Alps <i>Julia Seeber, Michael Steinwandter, Georg Niedrist, Ulrike Tappeiner</i>	We_S3_O3
10:20h - 10:40h	Coffee break	
10:40h - 10:55h	Above- and below-ground litter trait highly regulates faunal contribution to litter decomposition across an elevational gradient <i>Saori Fujii, Akira S. Mori, J. Hans C. Cornelissen, Matty P. Berg</i>	We_S3_O4
10:55h - 11:10h	The effect of liming on epigeic hunting spiders differs between birch wood stands and grass clearings <i>Radek Michalko, Emanuel Kula, Ondřej Košulič</i>	We_S3_O5
11:10h - 11:25h	Interactions between Australian cotton production and soil biota, in particular invertebrates <i>Geoff Baker</i>	We_S3_O6
11:25h - 11:40h	<i>Rotylenchulus reniformis</i> , A Plant-Parasitic Nematode of National and International Concern <i>Edward C McGawley, C. Overstreet, Y. Takeuchi</i>	We_S3_O7
11:45h - 13:00h	Lunch	
13:00h - 13:35h	Rapid trophic interactions between soil decomposers, plants and above-ground herbivores <i>Olaf Schmidt, Ganna S. Shutenko, Tom Wilkinson</i>	We_S3_KN2
13:35h - 13:50h	Effects of crop plant identity and litter addition on community structure of soil arthropods in arable fields <i>Nicole Scheunemann, Olaf Butenschoen, Stefan Scheu</i>	We_S3_O8
13:50h - 14:05h	Low importance of (ecto-) mycorrhizal fungi in soil food webs <i>Alexei V. Tiunov, Anton A. Goncharov, Anton A. Potapov</i>	We_S3_O9
14:05h - 14:20h	Feeding habits of detritivorous animals revealed by nitrogen isotope signatures of individual amino acids <i>Ichiro Tayasu, Chikage Yoshimizu, Yoshito Chikaraishi, Nanako O. Ogawa, Naohiko Ohkouchi</i>	We_S3_O10
14:20h - 14:35h	Growth and stoichiometry of three ecologically different earthworm species <i>Anna Rožen, Dorota Twardzik, Łukasz Sobczyk, January Weiner</i>	We_S3_O11
14:35h - 14:50h	The effect of endemic earthworm <i>Allolobophora hrabei</i> on soil microbial communities in steppe fragments of central Europe <i>Václav Pižl, Jiří Jirout, Dana Elhottová</i>	We_S3_O12

Wednesday, August 24<sup>th</sup> -Session-3: Ecology of soil animals and their ecosystem function  
 Poster session (Session 1, 2, 4)

14:50h - 15:05h	Earthworms and nutrient availability: the ecosystem engineer as (bio)chemical engineer <i>Jan Willem van Groenigen, Mart Ros, Ingrid Lubbers, Gerlinde De Deyn Tjisse Hiemstra, Oene Oenema, Gerwin Koopmans</i>	We_S3_O13
15:05h - 15:20h	Coffee break	
15:20h - 16:40h	<b>Poster Session 1, 2, 4 Core Time</b>	
	Intraspecific variation in the responses of an earthworm species to climate warming: the driver and consequence in tree growth <i>Makoto Kobayashi, Tomoya Kawakami, Yukio Minamiya, Nobuhiro Kaneko</i>	We_S1_P1
	Lumbricidae biodiversity at the sites in Bieszczady (Poland) after 25 years <i>Joanna Kostecka, Anna Mazur-Paczka, Grzegorz Paczka</i>	We_S1_P2
	Impacts of Different Chemical Fertilizers and Aquatic Earthworm Activities on Methane Emission from Paddy Soil <i>Mitra Priyanka, Hanai Yoshimichi, Kaneko Nobuhiro</i>	We_S1_P3
	Effects of compost application on earthworms and potworms ( <i>Oligocheata: Lumbricidae, Enchytraeidae</i> ) <i>C. Pelosi, F. Ricci, L. Bentze, D. Montagne</i>	We_S1_P4
	Terrestrial Oligochaeta communities after 88 years of continuous fertilizer addition <i>C. Pelosi, O. Schmidt, F. van Oort</i>	We_S1_P5
	Repeated drought effects on the soil microarthropod communities of a sand steppe <i>Norbert Flórián, László Dányi, György Kröel-Dulay, Gábor Ónodi, Miklós Dombos</i>	We_S1_P6
	Predictability of species performance under climatic stress <i>Oscar Franken, Jacintha Eilers, Matty P. Berg</i>	We_S1_P7
	Effect of temperature and soil properties on Collembola communities in Korean forest <i>Yun-Sik Lee, June Wee, Jinsol Hong, Yongeun Kim, Kijong Cho</i>	We_S1_P8
	Recovery of soil mesofauna (Collembola) communities of grassland after summer flooding <i>Odetta Gonzalez Mace, Stefan Scheu</i>	We_S1_P9
	Effects of variable moisture levels various soil organism groups in large Terrestrial Model Ecosystems (TME) <i>Jörg Römbke, Cornelia Bandow, Rüdiger Schmelz</i>	We_S1_P10
	Modification of crop rotation cycles alters micro- and mesofauna community diversity and dynamics in rice paddy soil <i>Katharina John, Andrey S. Zaitsev, Volkmar Wolters</i>	We_S1_P11
	Seasonal dynamics of soil macrofauna on extensively and intensively managed Alpine grassland <i>Michael Steinwandter, Niedrist Georg, Ulrike Tappeiner, Julia Seeber</i>	We_S1_P12
	Latitudinal gradients modulate fire-induced shifts in the structure and diversity of springtail communities in coniferous forests of European Russia <i>Ruslan Saifutdinov, Konstantin Gongalsky, Andrey Zaitsev</i>	We_S1_P13
	Species biodiversity and vertical distribution of soil oribatid mites (Acari: Oribatida) in relation to sea influence in the Cat Ba island National Park, northern Vietnam <i>Manh Q. Vu, Tri H. Nguyen, Lien T. Pham</i>	We_S1_P14



Wednesday, August 24<sup>th</sup> -Session-3: Ecology of soil animals and their ecosystem function  
 Poster session (Session 1, 2, 4)

- Microbial community structure analysis of water-stable soil aggregates in no-till cropping systems We\_S1\_P15  
*Masami Nakane, Mai Shizukuda, Tomoyasu Nishizawa, Masakazu Komatsuzaki, Tomoyoshi Hashimoto, Hiroyuki Ohta*
- Molecular Analysis of Microbial Community in Water Stable Aggregation of Upland Field Soils Managed by No-tillage Practices for Seven Years We\_S1\_P16  
*Mai Shizukuda, Masami Nakane, Tomoyasu Nishizawa, Masakazu Komatsuzaki, Kazuhiko Narisawa, Tomoyoshi Hashimoto, Hiroyuki Ohta*
- Galician Earthworm Database: quantifying diversity and ecology at regional scale We\_S2\_P1  
*L González, BF Souto, R Mascato, S Mato, M Mariño, R Piñeiro, J Rodeiro, MJI Briones*
- Linking above- and below-ground biotic communities in peatlands We\_S2\_P2  
*R Juan-Ovejero, RR Granjel, ME Barreal, E Benit, P Ramil-Rego, MJI Briones*
- Inter- and intra-specific morphology of *Amyntas gracilis* earthworm found in Japan We\_S2\_P3  
*Yukio Minamiya, Nobuhiro Kaneko*
- Food selections by ants to collembolans We\_S2\_P4  
*Kenichi Ikeda, Takuo Sawahata*
- Molecular Phylogenetic Analysis of Japanese Soil-Dwelling *Mundochthonius* taxa (Pseudoscorpiones: Chthoniidae) We\_S2\_P5  
*Hajime Ohira, Shingo Kaneko, Leanne Faulks, Tadaaki Tsutsumi*
- Gagrellula ferruginea* (Arachnida: Opiliones: Sclerosomatidae) is a ring species that involves at least two cases of circular overlap. We\_S2\_P6  
*Nobuo Tsurusaki, Satoshi Kawato, Minako Kawaguchi, Tohru Matsumoto, Hayato Sato*
- Soil microfauna MOTUs survey in Central Mexican soils We\_S2\_P7  
*Hugo H. Mejía Madrid, José G. Palacios-Vargas, Monserrat Lara-Meza, Judith Salazar-Santana*
- Species diversity of free-living nematodes in tropical soils of Vietnam, exemplified in the family Aporcelaimidae (Nematoda) We\_S2\_P8  
*Thi Anh Duong Nguyen, Reyes Peña-Santiago, Michael Bonkowski*
- Organic farming practice in no-tillage clipped weed cover mulching increases soil fauna diversity and earthworm populations compared with conventional tillage with weed removal We\_S4\_P1  
*Ryosuke Nemoto, Akira Iwasaki, Rahmatullah Hashimi, Masakazu Komatsuzaki, Satoshi Kaneda, Nobuhiro Kaneko*
- Nematode fauna of “Yatsuda”, or wet paddy field We\_S4\_P2  
*Hiroaki Okada, Shigeru Niwa*
- Impacts of monoculture tea plantation (*Camellia sinensis*) on the soil microarthropod (Oribatida, Collembola, other Microarthropoda) community structures in the Moc Chau plateau, Northwest of Vietnam We\_S4\_P3  
*My T. Ha, Manh Q. Vu, Tien H. Nguyen*
- Soil oribatid mites (Acari: Oribatida) community structures in relation to soil type in the Red River Delta, northern Vietnam We\_S4\_P4  
*L. T. Hien, Manh Q. Vu*
- Soil oribatid mite (Acari: Oribatida) community structures as bioindicator of climatic-environmental change in the Mau Son Moutain, Northeast of Vietnam We\_S4\_P5  
*Manh Q. Vu, Hoa T. Do, My H. Tra*

Wednesday, August 24<sup>th</sup> -Session-3: Ecology of soil animals and their ecosystem function  
Poster session (Session 1, 2, 4)

- Effect of vegetation types and fire disturbance on soil nematode community in Greater Xing'an Mountain  
*Yinghua Lin* We\_S4\_P6
- The influence of forest clear-cutting on land snail fauna in Hokkaido, Japan  
*Yuta Morii, Yusaku Okubo* We\_S4\_P7
- Effects of urbanization on ground beetle assemblages  
*Masahiro Nagano* We\_S4\_P8
- Biogeographic connections of soil macrofauna of the south of Kunashir Island (Kuril Islands)  
*K.B. Gongalsky, D.M. Kuznetsova, A. D. Elagin, S. A. Malyavin, A.S. Zaitsev* We\_S4\_P9
- Distribution, ecological characteristics, and gene polymorphisms of the invasive millipede *Chamberlinius hualienensis* Wang in Shizuoka, Central Japan  
*Takafumi Kamitani, Natsuko Iida-Aoyama, Masaru Murakami* We\_S4\_P10
- Testate amoebae of the forest soils of Mount Fuji (Japan)  
*A. Bobrov, S. Shimano, Yu. Mazei, E.A.D. Mitchell* We\_S4\_P11
- Effects of No tillage with clipped mulch on PLFA profiling of microbial community structure and nematode community  
*Akira Iwasaki, Takahiro Ito, Ryosuke Nemoto, Rahmatullah Hashimi, Masakazu Komatsuzaki, Satoshi Kaneda, Tomonori Tsunoda, Nobuhiro Kaneko* We\_S4\_P12
- Observation of *Cordyceps ramosipulvinata*, a fungal species pathogenic to cicada-nymph  
*Hiroki Sato* We\_S4\_P13

17:00h - 19:00h **Round Table: Current state and future perspective of soil zoology in Asian Region**

THURSDAY, August 25<sup>th</sup>

09:00h - 17:00h Excursion

18:00h - 20:00h Colloquium Dinner (Hotel Nikko Nara)

Friday, August 26<sup>th</sup>, Session-4: Conservation of soil biodiversity with special reference to Asia and Oceania Region  
ICSZ-ICA Joint Symposium - Soil biodiversity for our future earth

FRIDAY, August 26th

**Session-4: Conservation of soil biodiversity with special reference to Asia and Oceania region**

*Chair: Thibaud Decaëns, Satoshi Shimano*

09:00h - 09:35h	Invertebrate conservation in a changing world: linking local and global approaches <i>Evan P. Economo, Benoit Guénard, Cong Liu</i>	Fr_S4_KN
09:35h - 09:50h	Soil Invertebrates in New Zealand: The state of knowledge and the state of science <i>M.A. Minor</i>	Fr_S4_O1
09:50h - 10:05h	Centripetal surge in the chromosome number of <i>Gagrellula ferruginea</i> (Arachnida: Opiliones: Sclerosomatidae) in two different mountainous areas in the Kinki District, Honshu, Japan <i>Nobuo Tsurusaki, Mizuho Yokoyama, Daichi Kawakami</i>	Fr_S4_O2
10:05h - 10:20h	Organically managed apple orchard harbors more soil animals than conventionally managed: report with special reference to nematodes <i>Hiroaki Okada</i>	Fr_S4_O3
10:20h - 10:40h	Coffee break	
10:40h - 10:55h	Nitrogen dynamics on no till weed management under wheat plantation <i>Binay Sangat, Nobuhiro Kaneko, Yukio Minamiya, Tomonori Tsunoda, Jumpei Kimura</i>	Fr_S4_O4
10:55h - 11:10h	Abundance of soil-related arthropods and nematodes under reduced tillage and bagasse mulching in sugarcane plantation in Central Lampung, INDONESIA <i>F.X. Susilo, I Gede Swibawa</i>	Fr_S4_O5
11:10h - 11:25h	Difference of soil microarthropod assemblies between organically and conventionally managed apple orchards <i>Jiwon Kim, Chuleui Jung</i>	Fr_S4_O6
11:45h - 13:00h	Lunch	

**ICSZ & ICA Joint Symposium -Soil Zoology and Future Earth-**

13:00h - 13:30h	The hyper-diverse soil: our source of food <i>Sina Adl</i>	Fr_J_1
13:30h - 14:00h	Colorful fungus–Collembola interactions in brown ecosystems <i>Taizo Nakamori</i>	Fr_J_2
14:00h - 14:30h	Agroecology and "tada-no-mushi"- Detrital infusion support paddy rice above and under-ground food web - <i>Kazumasa Hitaka</i>	Fr_J_3
14:30h - 14:40h	Coffee break	
14:40h - 15:10h	Mainstreaming soil ecosystem services, a way towards sustainable biomass production <i>Katarina Hedlund</i>	Fr_J_4
15:10h - 15:40h	Made in Japan; “Natural Farming” (no-tillage with weed management) can serve the highest ecosystem functioning for agriculture <i>Nobuhiro Kaneko</i>	Fr_J_5
15:40h - 16:00h	Coffee break	
16:00h - 16:40h	Closing	