

SUITMA 11 Poster Program

Session Soil Health in Urban Areas

(Conveners: Remigio Paradelo, Anna Paltseva)

Miguel Izquierdo-Díaz, Veronika Hansen, Eduardo De Miguel, Fernando Barrio-Parra, Humberto Serrano, Jorge Loredó, Yawen You, Jakob Magid

- P1.1 [**Lettuce for more than just eating: monitoring air quality**](#)
-

M. Gómez-Brandón, M. Probst, C. Herbón, M.T. Barral, R. Paradelo

- P1.2 [**Composition and associations of bacteria and fungi in urban allotment gardens soils from Santiago de Compostela, Northwestern Spain**](#)
-

A.M. Glushakova, T.V. Prokofeva, L.V. Lysak, A.V. Kachalkin, S.A. Shoba, N.V. Goncharov, E.V. Lapygina, A.A. Belov, T.A. Gracheva

- P1.3 [**Characteristics of microbial complexes of urban soils and dust aerosols in different functional zones of Moscow**](#)
-

E. Chebykina, T. Nizamutdinov, E. Abakumov

- P1.4 [**Trace metal postpyrogenic soil contamination in traffic area of Russian Arctic**](#)
-

Session Soil Pollution and Urban Food Growing

(Conveners: Liliane Jean-Soro, Béatrice Bechet, Thierry Lebeau, Cécile Le Guern)

Madline Atika, Benidire Leila, Beroigui Meriyem, Boularbah Ali

- P2.1 [**Enhancement of Kettara mine tailings phytoremediation under drought stress using *Peganum harmala* inoculated by plant growth promoting rhizobacteria**](#)
-

E. Chebykina, T. Nizamutdinov, E. Abakumov

- P2.2 [**Trace metal postpyrogenic soil contamination in traffic area of Russian Arctic**](#)
-

- P2.3 Marina Slukovskaya, Tatiana Ivanova, Eugenia Krasavtseva, Viktoria Maksimova, Irina Mosendz

[Remediation of industrially disturbed soil using modified layered silicates in the Subarctic](#)

Grega E. Voglar, Simon Gluhar, Anela Kaurin, Domen Leštan

- P2.4 [Large-scale demonstration of ReSoil®, a sustainable technology for soil washing of metal contaminated soil](#)
-

K.A. Bakhmatova, A.A. Sheshukova

- P2.5 [Soil diversity of the historical center in St. Petersburg \(Russia\) as a result of the urban land use history](#)
-

Session Amendments for SUITMA Soils

(Conveners: Francesca Bretzel, Eliana Tassi, Luke Beesley, Manhattan Lebrun)

Ait Elallem Khadija, Idali Noureddine, Yasri Abdelaziz, Boularbah Ali.

- P3.1 [Optimizing the use of organic amendments for the rehabilitation of degraded mine tailings](#)
-

Alice Kohli, Liliane Jean-Soro, René Guénon, Laure Vidal-Beaudet

- P3.2 [Home and community composts are potential source of metals and metalloids for urban garden](#)
-

Nafise Deimkar, Yassine Chafik, Marta Sena-Velez, Steeve Thany, Sylvain Bourgerie, Emiliane Taillebois, Domenico Morabito

- P3.3 [Transfer, accumulation and biological impact of As and Pb in the soil pore water-broad bean-aphid continuum: a case of mining soils remediated with biochar](#)
-

Guillaume Hostyn, Jean-Marie Côme, Stéphanie Ouvrard, Christophe Schwartz

- P3.4 [Does size matter? Method development for agronomic properties characterization of coarse fractions](#)
-

Yassine Chafik, Marta Sena-Velez, Azzouz Boukroute, Sylvain Bourgerie, Domenico Morabito

- P3.5 [Use of a locally sourced and produced biochar to reduce the bioavailability of Pb, Cd, Zn and Cu of a mining Technosol](#)
-

- P3.6 Guo Meina, Huot Hermine, Liu Chang, Liu Ye, Liu Wenshen, Yuan Ming, Zhu Shichen, Chen Yingyan, Chao Yuan-Qing, Morel Jean Louis, Qiu Rong-Liang, Watteau Françoise, Séré Geoffroy, Tang Ye-Tao

[The role of phytoremediation strategies of ion-adsorption rare earth elements mine tailings highlighted by macroaggregate typology](#)

Ashley Schnackenberg, Géraldine Bidar, Valérie Bert, Patrice Cannavo, Sébastien Détriché, Francis Douay, René Guenon, Liliane Jean-Soro, Alice Kohli, Thierry Lebeau, Karen Perronnet, Laure Vidal-Beaudet, Christophe Waterlot, Aurélie Pelfrène

- P3.7 [Effects of amendments on the mobility, bioaccessibility, and phytoavailability of As, Cd, Pb, and Zn in contaminated urban kitchen garden soils](#)
-

Session Constructed Technosols

(Conveners: Moreen Willaredt, Thomas Nehls, Björn Kluge)

Petra Heckova, Michal Snehota, John Koestel, Ales Klement, Radka Kodesova

- P4.1 [Soil structure development of anthropogenic soils used in bioretention cell](#)
-

Thalita Abbruzzini, Miguel Delgado Reyes, Lucy Mora, Silke Cram, Blanca Prado

- P4.2 [Evaluation of Technosols constructed with construction waste as alternative substrates to peat moss in container nurseries of forest plants](#)
-

Gwendal Libessart, Catherine Franck-Néel, Philippe Branchu, Christophe Schwartz

- P4.3 [Experimental pedology for a better understanding of the human factor of pedogenesis in urban areas](#)
-

Pénélope Cheval, Bertrand Vandoorne, Francis Douay, Christelle Pruvot, Aurélie Pelfrène

- P4.4 [Using constructed Technosols for urban bio-intensive market gardening: Assessment of their habitat and food biomass production functions](#)
-

Kening Wu, Shiheng Hao, Qijun Yang

- P4.5 [Soil Classification of Typical Technosols in China](#)
-

- P4.6 D. A. Sokolov, E. V. Abakumov, S. V. Morozov, V. A. Androkhanov

[Dynamics of content and component composition of polycyclic aromatic hydrocarbons in Spolic Technosols of anthracite deposit dumps in Siberia](#)

Marek Petreje, Michal Sněhota, Petra Hečková, Barbora Rybová, Tomáš Chorazy

- P4.7 [**Use of demolition waste and biochar in a hybrid constructed wetland-extensive green roof**](#)
-

M'Barki Kabira, El Khalil Hicham, Mandri Btissam, Boularbah, Ali

- P4.8 [**Organic and inorganic inputs for soil reconstruction in a semi-arid climate: review on the methodology used**](#)
-

Soil activities by urban governments

(Convener: Wolfgang Burghardt)

Catherine Franck-Néel, Béatrice Béchet, Cécile Le-Guern, Bertrand Laroche, Catherine Keller, Romain Métois, Rehana Sheriff, Joël Moulin, Clémentine Duvigneau, Laetitia Boithias, Fabienne Marseille, Philippe Branchu

- P5.1 [**MUSE: A new approach to account for the soil multifunctionality in urban planning**](#)
-

Nexus Urban Soils – ESG ratings, significance and management of soils for climate and health impact

(Convener: Wolfgang Burghardt)

Silke Cram, Blanca Prado, Pilar Fernandez, Karla Toribio, Victor Peña, Helena Cotler

- P6.1 [**Soil ecosystem services in the Chapultepec Forest**](#)
-

Maha Deeb, Peter M. Groffman, Matthew Amato, Zhongqi Cheng, Daniel Giménez

- P6.2 [**Soil aggregates in bioswales: carbon storage, aggregate stability and micro organism activities**](#)
-

Kseniia Orlova, Igor Savin

- P6.3 [**Assessment of urban soils quality in Russia using concepts of soil ecological functions and ecosystem services**](#)
-

- P6.4 Viacheslav Vasenev, Marina Slukovskaya, Sergey Gorbov, Maria Korneykova, Natalia Saltan, Marina Umanets, Andrey Stepanov, Dmitry Sarzhanov, Kristina Ivashchenko,

Inna Kanareykina, Tatiana Voroshikhina, Natalya Mishurina, Evgeny Svatikov

[Lawn ecosystems on peat-sand-loam mixtures along the climatic gradient](#)

Bianca Rompato, Remigio Paradelo Núñez, Giovanni Mastrolonardo, Giacomo Certini

P6.5 **[Unsealing urban soils for improving citizens' well-being](#)**

Claire Vieillard, Laure Vidal-Beaudet, Robin Dagois, Stéphanie Ouvrard

P6.6 **[In situ evaluation of soil desealing strategies to promote ecosystem services: preliminary results](#)**

Marie Belin, Emmanuel Gendreau, Tiavina Andrianantenaina, Xavier Raynaud, Yoan Marcangeli, David Carmignac, Jean-Christophe Lata

P6.7 **[Study of ecosystem services generated in an experimental design combining green roofs and photovoltaic panels](#)**

Open Session on SUITMAs

(Conveners: Christina Siebe, Viacheslav Vasenev)

N.V. Salnik, S.N. Gorbov, O.S. Bezuglova, A.K. Sherstnev

P7.1 **[The microelement composition distribution in native soils of Rostov agglomeration under wood plants](#)**

Dmitry Vlasov, Natalia Kosheleva, Nikolay Kasimov

P7.2 **[The role of soils in the enrichment of PM1 particles of road dust in Moscow with chemical elements](#)**

Meriyeme Beroigui, Stéphanie Ouvrard, Christophe, Schwartz, Ali Boularbah,

P7.3 **[Soil carbon sequestration in urban soils under different land uses in a semi-arid region: physico-chemical and biochemical factors influence](#)**

Fidele Karamage, Chi Zhang, Tong Liu, Andrew Maganda, Alain Isabwe, Emma Salim Mukalazi

P7.4 **[Soil Erosion Risk Assessment in Uganda](#)**

P7.5 Piotr Hulisz, Anna Dziemińska, Sylwia Pindral, Adam Michalski, Michał Dąbrowski,

Maciej Markiewicz

Land use impact on spatial soil diversity in the historical palace park (Lubostroń, north-central Poland)

I.V. Zamotaev, R.G. Gracheva, A.V.Dolgikh, Yu.V.Konopliankova, P.V. Mikheev, E.A. Belonoskaya, A.S. Dobryansky

P7.6

Soils in the areas of sugar industry waste disposal

Virginie Moreaux, Jean-Marie Come, Guillaume Hostyn,2, Vincent Huber, Séverin Poutrel, Gaylord Erwan Machinet, Xavier Marie, Rebecca Dinkuhn, Claire Morvan, Jean-Philippe Tagutchou, Axel Bernard, Christophe Schwartz, Stéphanie Ouvard

P7.7

How to give new value to moderately contaminated soil - assessment of wood energy production with short rotation coppice

P.N. Skripnikov, S.N. Gorbov , A.A. Nalivaichenko , S.A. Tishchenko

P7.8

The role of artificial forest plantations in the accumulation processes and carbon various forms distribution in urban soils (on the example of the Rostov city agglomeration)
