



2022

PROGRAMME

INTERNATIONAL SOIL SCIENCE SYMPOSIUM on SOIL SCIENCE & PLANT NUTRITION

(7th International Scientific Meeting)

2 – 3 December 2022

Samsun, Türkiye

Editors

Dr.Rıdvan KIZILKAYA

Dr.Coşkun GÜLSER

Dr.Orhan DENGİZ

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Erasmus Mundus Joint Master Degree in Soil Science (emiSS) Programme



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International Soil Science Symposium on “SOIL SCIENCE & PLANT NUTRITION” 2-3 December 2022 / Samsun, Türkiye

WELCOMING & OPENING SPEECH

HOUR	ROOM A	
09:30-10:15	Opening Speech	Garib MAMMADOV, President of FESSS
	Opening Speech	Ayten NAMLI, President of Soil Science Society of Turkey
	Welcoming Speech	Rıdvan KIZILKAYA, Chair of Symposium
	Welcoming Speech	Coşkun GÜLSER, Coordinator of emiSS

HOUR	
10:30-12:00	Chair : Orhan DENGİZ
	Influence of surfactant-based wetting agent applications on the content and distribution of extractable macronutrients and labile organic carbon fractions of a drip-irrigated sandy soil <i>Cansu ALMAZ, Recep Serdar KARA, Markéta MIHÁLIKOVÁ, Svatopluk MATULA, Renata DUFFKOVÁ, Petr FUČÍK</i>
	Sensitivity of soil organic matter indicators to long-term (<50 yrs.) application of mineral nitrogen in Cambisol in Serbia <i>Elmira SALJNIKOV, Nikola KOKOVIĆ, Vladan UGRENOVIĆ, Aneta BUNTIĆ, Tara GRUJIĆ, Ljubomir ŽIVOTIĆ, Goran JAČIMOVIĆ</i>
	Peculiarities of the formation of grain sorghum hybrids biometric indicators with the application of microfertilizers and growth regulators <i>Lesia KARPUK, Oksana TITARENKO, Andrii PAVLICHENKO</i>
	Family net vessel compost technology: Best way to manage Kitchen waste <i>Asha SAHU, M.C. MANNA, Sudeshna BHATTACHARJYA, J.K. THAKUR, A. MANDAL, A.B. SINGH, A.K. PATRA</i>
	Effect of lantana based fertilizer enriched biochar application on soil properties and onion productivity <i>Poonam BHATT, Keshab Raj PANDE, Prashant Raj GIRI</i>
	Topsoils nutrient dynamics of compound farms in the upper and lower slopes of University of Nigeria, Nsukka <i>B.O. OKORIE, E.C.CHUKWU, O.A. EZEIFEKA, K.U.UKWUABA, C.L.A. ASADU, C.P.UMEUGOKWE, C.J. AYOGU, V.I.EZEAKU</i>
12:00-13:00	BREAK
13:00-14:30	Chair : Tomasz ZALESKI
	Effects of rhizosphere microbiome on alleviate environmental stress on strawberry crop: A review <i>Mohammed GAMAL, Rıdvan KIZILKAYA</i>
	Response of microbial consortia on nutrient uptake and soil health under soybean crop in Central India <i>Shubham SINGH, N.G. MITRA, R.K. SAHU</i>
	Vermicompost: A gateway to sustainable agriculture production <i>Muhammad Danish TOOR, Rıdvan KIZILKAYA</i>
	Exploring the role of microbial autotrophic and heterotrophic contributions in soil carbon dynamics in semi-arid to sub-humid central India <i>Sudeshna BHATTACHARJYA, Namrata PAL, Asha SAHU, A.B. SINGH</i>
	Use of product containing free nitrogen-fixing bacteria (biofertilizer) as a supplement in nitrogen fertilization of crops <i>Tursynbek KAIYRBEKOV, Andon VASILEV, Lyubka KOLEVA-VOLKOVA, Rıdvan KIZILKAYA</i>
	Composting process of organic materials <i>Abdurrahman AY, Salih DEMİRKAYA</i>
14:30-14:45	BREAK

Symposium Programme (2 Dec 2022 / 09:30-14:45)



International Soil Science Symposium on “SOIL SCIENCE & PLANT NUTRITION” 2-3 December 2022 / Samsun, Türkiye

Symposium Programme (2 Dec 2022 / 14:45-19:15)

HOUR	
14:45-16:15	Chair : Markéta MIHALIKOVA
	Wind damages monitoring on vine yard to select the right location in Gobustan District - Ulviyya MAMMADOVA
	Estimation of soil aggregate stability by different regression methods - Pelin ALABOZ, Orhan DENGİZ, Fikret SAYGIN
	Soil resistance to vertical penetration and saturated hydraulic conductivity of fine-textured agricultural soil under controlled drainage - Kamila BĀŤKOVÁ, Svatopluk Matula, Markéta MIHÁLIKOVÁ, Lemma Adane TRUNEH, Recep Serdar KARA, Cansu ALMAZ, David Kwesi ABEBRESE
	How does salt-stress affect on plant growth and yield? - Mahmuda BEGUM, Coskun GULSER, Sapana PARAJULI
	Effect of compost surface application without incorporation on soil temperature, air temperature above the soil surface and water content - Samantha YAMAMOTO, Markéta MIHÁLIKOVÁ, Cansu ALMAZ, Recep Serdar KARA, Kamila BĀŤKOVÁ, Petr DVOŘÁK, Martin KRÁL
	Effects of biotic and abiotic stress factors on evapotranspiration rate of pepper plant - Zeynep ASLAN, Miray ARLI SÖKMEN, Coskun GULSER
16:15-16:30	BREAK
16:30-18:00	Chair : Ivan MANOLOV
	Different tree species effecting the soil sorption properties of post fire areas; A comprehensive review - Mukkaram EJAZ, Agnieszka JÓZEFOWSKA
	Recyclable organic amendments to improve soil quality - Razia Sultana SHAKY, Coskun GULSER
	Organic carbon dynamics under different land use systems of Assam - Goutam PARIDA, Shrila DAS, Prasenjit RAY, Ruma DAS, M.C. MEENA, Ranjan BHATTCHARYYA, R.K. SINGH
	Potential of using fly ash as amendment for soil characteristics - Sinan ABU AL HAYJA, Coskun GULSER, Maia AZAB
	Effects of pyrolysis temperature and time on biochar procedures - Salih DEMİRKAYA, Abdurrahman AY
	Relationship between land surface temperature and moisture of soils in Shamakhi District - Narmin ALISOY
18:00-18:15	BREAK
18:15-19:15	Chair : Coşkun GÜLSER
	Detection of soil-borne viral and protozoal pathogens by simultaneous extraction of total nucleic acids from sugar beet roots - Sevilay KAYA, Sena ÇANKAYA, Nazlı Dide KUTLUK YILMAZ
	Investigations on soil-borne viruses and their vectors in sugar beet production areas of Ankara and Konya provinces - Vedat CEYLAN, Nazlı Dide KUTLUK YILMAZ
	Water stress efficacy on soil borne diseases - Neşe DALBASTI, Berna TUNALI
	Oribatid mites from mushrooms growing in natural forest soils in Kastamonu Province, Turkey - Onur ÖZYÜREK, Merve YAŞA, Sebahat K. OZMAN-SULLIVAN
	Potential of organic amendments on reclaiming the soil properties affected under alkaline and/or sodic condition - Sapana PARAJULI, Coskun GULSER, Mahmuda BEGUM
	Land evaluation for sustainable land management with multi-criteria decision making and linear combination technique: A case study in Samsun-Kavak District - Arif AYDIN, Orhan DENGİZ, İsmail Fatih ORMANCI



International Soil Science Symposium on “SOIL SCIENCE & PLANT NUTRITION” 2-3 December 2022 / Samsun, Türkiye

Symposium Programme (3 Dec 2022 / 08:45-14:30)

HOUR	
08:45-10:15	Chair : Orhan DENGİZ
	Young scientists: The new international union of soil sciences' working group Axel CERÓN-GONZÁLEZ, Bartłomiej GLINA
	Remote estimation of the relationship between erosion risk classes using the Neutrosophic Fuzzy-AHP and RE-OSAVI for Sinop Province, Turkey - Nursaç Serda KAYA, Orhan DENGİZ, Mert DEDEOĞLU
	Comparison of GIS-based interpolation methods for spatial distribution of soil properties: A case study of Jajmau, Kanpur - Nisha SAHU, J. K. SAHA, Rahul MISHRA, Nishant SINHA, Mrunalini KANCHETI, H. BISWAS, A. K. PATRA
	Sandy soils in Poland: Exploring research constituents - Axel CERÓN-GONZÁLEZ
	State of art approaches, insights, and challenges for digital mapping of electrical conductivity as a dynamic soil property - Fuat KAYA, Caner FERHATOĞLU, Yavuz Şahin TURGUT, Levent BAŞAYIĞIT
	Feasibility of re-involvement of the fallow soddy-podzolic soil in cultivation Andrey LITVINOVICH, Anton LAVRISHCHEV, Vladimir BURE, Tara GRUJIĆ, Elmira SALJNIKOV
10:15-10:30	BREAK
10:30-12:00	Chair : Kamila BĀTKOVÁ
	Agroecological significance of ecofertile biostimulant on tropical soils and crop improvement - David Tavi AGBOR, Darina ŠTYRIAKOVÁ, Orhan DENGİZ
	Determination of the agricultural use potential of bio additive organomineral fertilizers by incubation experiment - Ayten NAMLI, Muhittin Onur AKCA, Duygu BOZDOĞAN, Esra KUTLU, Nihal Ceren ALICI SUNGUR, İzzet MOLA
	Exploring the soil fertility and plant nutrition potential of LAB isolated from palm wine and sha'a - Desmond Kwayela SAMA, David Tavi AGBOR, John Dohbila DOHNJI, Ridvan KIZILKAYA
	Microelement composition of soils (Basegi Ridge, Middle Urals) and its spatial differentiation - Iraida SAMOFALOVA
	Evaluation of strawberry cultivars based on growth related attributes under open field condition - Izhar ULLAH, Dilek SOYSAL, Adis LIZALO, Hasan Hamid RASHID, Derviş Emre DOĞAN, Leyla DEMİRSOY
Potential role of salicylic acid on drought stress tolerance of strawberry plants - Mohammed G.DAKHEEL Izhar ULLAH, Derviş Emre DOĞAN, Leyla DEMİRSOY	
12:00-13:00	BREAK
13:00-14:30	Chair : Agnieszka JÓZEFOWSKA
	Soil organic carbon stock in post-mine sites after reclamation with various tree species: A review - Haroon ILAHI, Agnieszka JÓZEFOWSKA, Ridvan KIZILKAYA
	Determination of desertification risk for pasture areas under semi-arid ecological conditions using DIS4ME model and estimation with artificial neural network - Emin SAFLI, Sena PACCÍ, Orhan DENGİZ
	System of measures for soil erosion and protection - Narmin NAJAFOVA
	Environmental problems of technogenic land pollution - Samira NADJAFOVA, Meherrem BABAYEV
	Heavy metals in urban soils: A systematic literature review using R Studio María Camila Herrera COY
Direct sowing of rainfed winter wheat and in arid region of South Kazakhstan Elmira SALJNIKOV, Sagadat TUREBAYEVA, Aigul ZHAPPAROVA, Mira MILINKOVIĆ, Vladan UGRENOVIC, Vladimir MILADINOVIC, Aneta BUNTIC	
14:00-14:45	BREAK



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Symposium Programme (3 Dec 2022 / 14:45-19:30)

HOUR	
14:45-16:15	Chair : Lesia KARPUK
	Comparison of phenotypic and cytogenetic characteristics analysis of <i>Hibiscus syriacus</i> and <i>Hibiscus moscheutos</i> - <i>Yaqoob SULTAN, Muhammad IMRAN</i>
	Possibility of using vermicompost to improve oil plants productivity <i>Maia AZAB, Rıdvan KIZILKAYA, Sinan ABU AL HAYJA</i>
	The changes in growth criteria of Lettuce (<i>Lactuca sativa</i>) with salicylic acid application under salt stress - <i>Salar M.A. SALEM, Füsun GÜLSER</i>
	Evaluation of potato varieties of domestic and foreign breeding for organic production in the conditions of the south-east of Kazakhstan <i>Nurbol BUDANOV</i>
	The use of leonardite in agriculture - <i>Sahbatullah HAIDARI, Ayhan HORUZ</i>
16:15-16:30	Effect of different salt contents in irrigation water on some growth parameters of sorghum plant - <i>Elif ÖZTÜRK, Salih DEMİRKAYA, Abdurrahman AY, Coşkun GÜLSER</i>
	BREAK
16:30-18:00	Chair : Michał GAŚIOREK
	A meta-analysis of heavy metals pollution in European soils under a strong anthropogenic pressure - <i>Tamara MEIZOSO REGUEIRA</i>
	Oil polluted soils: Review - <i>Ulrich Gaetan FUNGA, Tomasz ZALESKI, Orhan DENGİZ</i>
	Review of the phytoremediation potential of <i>Sedum plumbizincicola</i> for the remediation of contaminated soils - <i>Onyinye EZEIFEKA, Angelova VIOLINA, Coşkun GÜLSER</i>
	Effects of conditioner application on dispersion ratio in clayey soil - <i>Nutullah ÖZDEMİR, Ömrüm Tebessüm KOP DURMUŞ</i>
	Effects of polymer applications on soil stability - <i>Nutullah ÖZDEMİR, Hachim KASSIM</i>
18:00-18:15	Land degradation and melioration measures - <i>Salim SALİMLİ</i>
	BREAK
18:15-19:15	Chair : Füsun GÜLSER
	Investigation of the effects of forest fire in the national park “Bohemian-Saxon Switzerland” near Hřensko on air, soil and vegetation in Bohemia Region using remote sensing technology - <i>Furkan YILĞAN *, Markéta MIHÁLIKOVÁ</i>
	Field-scale digital soil mapping of mobile zinc: Combining different digital covariates and comparing geostatistical and machine learning models - <i>Natalya GOPP, Fuat KAYA, Ali KESHAVARZI</i>
	Determination and mapping of pH indicators in Kurmukchay basin soils <i>Qani QASIMOV</i>
	Hazelnut cultivation Black Sea region in Turkey: Future challenges and sustainable solutions - <i>Nejc SUBAN, Orhan DENGİZ</i>
	Physical and chemical properties of the Black Sea region hazelnut growing soils - <i>Yasemin YAVUZKILIÇ, Coşkun GÜLSER</i>
	Determination of landslide susceptibility with the help of analytical hierarchical process- Suşehri example - <i>Fikret SAYGIN, Orhan DENGİZ, Pelin ALABOZ</i>
	Comparison of physical soil quality of surface and subsurface soils affected by long-term cultivation based on SOC-stock - <i>İsmail Fatih ORMANCI, Orhan DENGİZ</i>
Importance of silicon in agriculture - <i>Hüseyin AYDIN, Rıdvan KIZILKAYA, Abdurrahman AY</i>	
19:15-19:30	CLOSING SPEECHS



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