

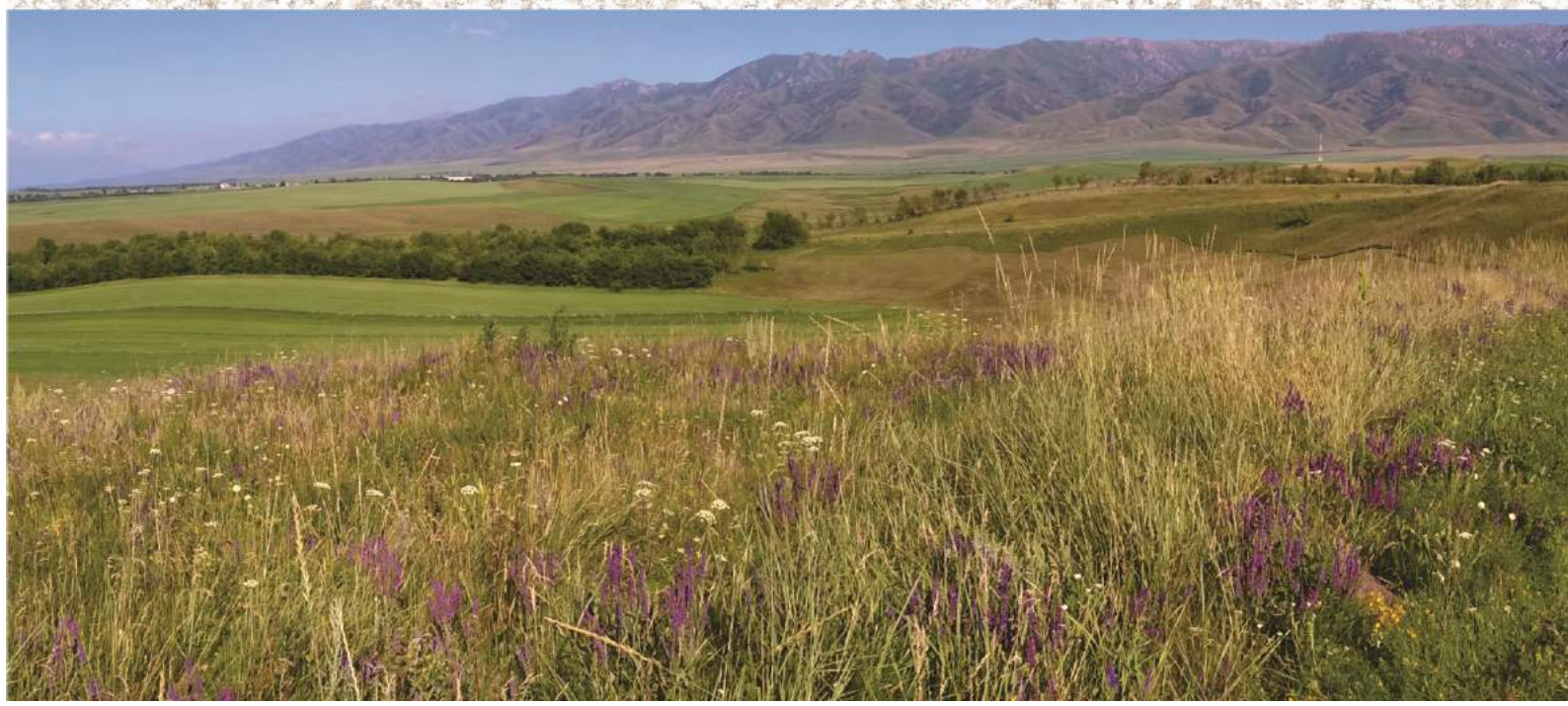


CONGRESS PROGRAMME

**10th International Soil Science Congress on
"Environment and Soil Resources Conservation"**

**Soil Science Society of Kazakhstan Cooperation with
the Federation of Eurasian Soil Science Societies**

17–19 October, 2018, Almaty, KAZAKHSTAN



VENUE



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Registration: 17/10/2018
Post-Congress Tour: 19/10/2018

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MAIN CINAR SALON

Hour	17 October 2018 - Wednesday	CINAR SALOON A
09 ⁰⁰ -10 ⁰⁰	Registration	
10 ⁰⁰ -10 ³⁰	<p>Opening Ceremony</p> <p>Abdulla SAPAROV, <i>President of Federation of Eurasian Soil Science Societies / President of Kazakhstan Soil Science Society</i></p> <p>Representative, <i>Ministry of Agriculture of the Republic of Kazakhstan</i></p> <p>Ulan TAZHIBAEV, <i>Chairman of the Board of the National Agrarian Scientific and Educational Center</i></p> <p>Murat ZHURINOV, <i>Academician of NAS RK, President of National academy of sciences of the Republic of Kazakhstan</i></p> <p>Gani KALIEV, <i>Academician of NAS RK, President of Academy of Agricultural Sciences of the Republic of Kazakhstan</i></p> <p>Takashi KOSAKI, <i>President-Elect, International Union of Soil Sciences, Japan</i></p> <p>Ridvan KIZILKAYA, <i>General Secretary of Federation of Eurasian Soil Science Societies / Vice-President of Turkish Soil Science Society, Turkey</i></p> <p>Evgeny SHEIN, <i>Member of Russian Soil Science Society, Russia</i></p> <p>Garib MAMMADOV, <i>President of Azerbaijan Soil Science Society, Azerbaijan</i></p> <p>Tlektes ESPOLOV, <i>Academician of NAS RK, Rector of the Kazakh National Agrarian University, Kazakhstan</i></p>	
Plenary Session		
10 ³⁰ -10 ⁵⁰	<p>Takashi Kosaki <i>"Need for enhancing collaboration between national/regional societies and IUSS to advance International Decade of Soils (IDS)", (President -Elect, International Union of Soil Sciences, Japan)</i></p>	
10 ⁵⁰ -11 ¹⁰	<p>Evgeny Shein <i>"Modern devices and methods for physical properties of soils investigation", (Lomonosov Moscow State University; Soil Science Institute named V.V.Dokuchaev, Russia)</i></p>	
Coffee break		
11 ³⁰ -11 ⁵⁰	<p>Frank Eulenstein <i>"Visions and Innovations for Sustainable Use of Soils in Eurasia", (Leibniz Centre for Agricultural Landscape Research (ZALF), Germany)</i></p>	
11 ⁵⁰ -12 ¹⁰	<p>Pavel Krasilnikov <i>"Soil carbon sequestration and food security: exclusive or complimentary approaches", (Eurasian Center for Food Security, Lomonosov Moscow State University, Moscow, Russia)</i></p>	
12 ¹⁰ -12 ³⁰	<p>Ahmet Mermut <i>"Stable Isotopes Used in Soil, Ecology and Environmental Science", (University of Saskatchewan, Saskatoon, Canada and Harran University, Şanlıurfa, Turkey)</i></p>	
Lunch time		
13 ⁰⁰ -14 ⁰⁰		

ORAL PRESENTATIONS

Hour	17 October 2018 - Wednesday	CINAR SALOON A
	Section: SOIL SCIENCE, CLASSIFICATION AND CARTOGRAPHY, GEO-STATISTICS, REMOTE SENSING AND GIS Moderators: Coşkun Gülser, Ali Asghar Jafarzadeh	
14 ⁰⁰ -14 ¹⁵	Jafarzadeh A.A., Kalajahi V.M., Oustan S., Shahbazi F., Belaghi R.A. <i>"Taxonomic distance as a tool for finding correlation between Soil Taxonomy and World Reference Base classification systems, in calcareous, gypsiferous and saline soils"</i> (p.16)	
14 ¹⁵ -14 ³⁰	Bayrakli B., Dengiz O., Öztürk E., Serkan İç, Kesim E., Erkoçak A., Kars N., Birol M. <i>"Identification of suitable micro catchments for organic agriculture using GIS and remote sensing in East Part of the Black Sea Region"</i> (p.18)	
14 ³⁰ -14 ⁴⁵	Chmura D., Molenda T., Kidawa J. <i>"Initial soil formation in post-exploited areas: a study of abandoned gravel mine"</i> (p.20)	
14 ⁴⁵ -15 ⁰⁰	Dobrotvorskaya N., Rudchikov A. <i>"Creation of a cartographic model of the terrain for planning soil treatment technologies in field cultivation"</i> (p.22)	
15 ⁰⁰ -15 ¹⁵	Tusat E., Aktas I., Adiguzel N., Kutat U. <i>"A study on the positional accuracies of GPS measurements in terms of GIS spatial data precision"</i> (p.23)	
15 ¹⁵ -15 ³⁰	Kovaleva N.O., Stolpnikova E.M., Kovalev I.V. <i>"Biomarkers as paleoecological indicators in mountain soils of Eurasia"</i> (p.25)	
15 ³⁰ -15 ⁴⁵	Lebedeva M., Makeev A., Rusakov A., Kurbanov R., Ivanov A., Romanis T. <i>"Micromorphological diagnostics of pedogenesis in Pleistocene paleosols and Holocene polygenetic arid soils on loesslike loams in Eurasia"</i> (p.29)	
16 ⁰⁰ -16 ²⁰	Coffee break	
16 ²⁰ -16 ³⁵	Granina N. <i>"Cadastral valuation of Irkutsk regional lands, transferred from the category of agricultural areas: Theoretical and methodological aspects"</i> (p.31)	
16 ³⁵ -16 ⁵⁰	Simonova U.V., Rusakov A.V. <i>"Salt-affected soils in the Devonian Basin of Staraya Russa(Novgorodskaya region, Northwestern Russia): genesis, properties, classification"</i> (p.33)	
16 ⁵⁰ -17 ⁰⁵	Stulina G., Rusiev I., Solodkiy G. <i>"A Map of Soil Texture for the Ferghana Valley"</i> (p.36)	
17 ⁰⁵ -17 ²⁰	Tskhovrebov V.S., Faizova V.I., Nikiforova A.M. <i>"Time as a factor of soil formation and evolution of soils"</i> (p.38)	
17 ²⁰ -17 ³⁵	Dengiz O., Gülser C., Kızılkaya R. <i>"Mapping and evaluation based on modeling of soil fertility using GIS and interpolation methods"</i> (p.39)	
17 ³⁵ -17 ⁵⁰	Konyushkova M., Alavipanah S., Abdollahi A., ChernovT., Hamzeh S., Heidari A., Lebedeva M., Semenov I. <i>"A 3-D pattern of soil salinity at the young coastal plains of the Caspian Sea (the case studies in Russia and Iran)"</i> (p.27)	
19 ⁰⁰ -21 ⁰⁰	Gala dinner	

Section: SOIL ECOLOGY, SOIL POLLUTION & REMEDIATION**Moderators: Małgorzata Suska-Malawska, Frank Eulenstein**

- 14⁰⁰-14¹⁵ **Sorokin, A., Husniev I., Kireeva A.** *“Analysis of Spatial Heterogeneity of Soil Organic Carbon and pH for Ecological and Economic Rationale of Land-Use in the Stavropol Region”* (p.101)
- 14¹⁵-14³⁰ **Wilkomirski B.** *“The influence of heavy metals in soils on early stages of seedlings development”* (p.132)
- 14³⁰-14⁴⁵ **Saygin S.D., Huang C.H.** *“Assessing the wind erosion risk by the sand blasting technique”* (p.125)
- 14⁴⁵-15⁰⁰ **Valkama E., Acutis M., Kunyptiyeva G., Zhapayev R., Karabayev M.,** *“Modelling of soil organic carbon dynamics in Kazakhstan”* (p.108)
- 15⁰⁰-15¹⁵ **Gülser F., Gülser C., Gökkaya T.H.** *“The effects of selenium application on germination parameters in pumpkin (cucurbita pepo l.) some soil properties of growth media under drought conditions”* (p.113)
- 15¹⁵-15³⁰ **Shpedt A., Kratasyuk V., Rimatskaya N., Kolosova E.** *“Chernozems of Krasnoyarsk territory: Modern state and direction of evolution”* (p.126)
- 15³⁰-15⁴⁵ **Ubugunov L.L., Ubugunova V.I.** *“Soils of the River Floodplains of the Central Asian Inner Basin (Mongolia) and Ways of Their Rational Use”* (p.130)
- 15⁴⁵-16⁰⁰ **Vepryntseva K., Pivovarova E.** *“Numerical method in rationale of central images and diagnostics of soils in the arid steppe of the Altai Territory”* (p.26)
- 16⁰⁰-16²⁰ **Coffee break**
- 16²⁰-16³⁵ **Gülser C., Kızılkaya R., Gülser F.** *“Urease enzyme activity in a sandy clay loam soil outflow solution influenced by organic waste addition”* (p.184)
- 16³⁵-16⁵⁰ **Tosic S., Saljnikov E., Mrvić V., Belanović-Simić S., Pesic M., Jaramaz D.,** *“Pollution indices of heavy metal of soils of Mačkatice, Pčinja district”* (p.183)
- 16⁵⁰-17⁰⁵ **Mukanov B.** *“Results of the research of reclamation of salt-affected soils in the green zone of Astana”* (p.179)
- 17⁰⁵-17²⁰ **Kovaleva E., Yakovlev A.** *“The ecological evaluations of steppe and semi desert soils in conditions of oil contamination (Stavropol region)”* (p.107)
- 17²⁰-17³⁵ **Ibrahimov A., Gurbanova K.** *“Investigation of morphogenetic properties and reclamation methods of oil polluted soils of Absheron peninsula”* (p.178)
- 17³⁵-17⁵⁰ **Yakovleva L., Fedotova A.V.** *“Assessment of the salinification of arid territory degraded soils by electrical resistance methods”* (p.182)
- 17⁵⁰-18⁰⁵ **Konontseva Ye.V., Pivovarova Ye.G., Vepryntseva K.R., Khludenzov J.G.** *“Mathematical rationale of central images of agrogenic soils of the arid steppe of the Altai region”* (p.24)
- 18⁰⁵-18²⁰ **Sukhacheva E.Ye., Aparin B.F.** *“The Soil Cover Patterns of Anthropogenically Transformed Terrains”* (p.128)

19⁰⁰-21⁰⁰ **Gala dinner**

Section: SOIL BIOLOGY & BIOCHEMISTRY, SOIL HEALTH & QUALITY**Moderators: Pavel Krasilnikov, Nasser Aliasgharзад**

- 14⁰⁰-14¹⁵ **Allah Wasaya, Yasir T.A.** *"Tillage systems and nitrogen timing effects on growth dynamics, chlorophyll contents and grain quality in maize (Zea mays L.)"* (p.134)
- 14¹⁵-14³⁰ **Buntić A.V., Stajković-Srbinović O.S., Milić M.D., Kuzmanovi D.Ž., Rasulić N.V., Dimitrijević- Branković S.I., Delić D.I.** *"Sustainable production of cellulase by soil bacterium Sinorhizobium meliloti using commercial and agroindustrial waste substrates"* (p.135)
- 14³⁰-14⁴⁵ **Ivanova E., Karpova D., Pershina E., Mitireva E., Andronov E.** *"Prokaryotic Communities in Soil Chronosequences of Kursk Magnetic Anomaly mining area"* (p.136)
- 14⁴⁵-15⁰⁰ **Akça İ., Durmuş M., Kızılkaya R.** *"Microbiological properties in a soil with addition of *Philoscia muscorum* and wheat straw"* (p.142)
- 15⁰⁰-15¹⁵ **Khaidapova D., Khitrov N., Klueva V.** *"Rheological properties of undisturbed samples of Typical Chernozem (Kursk region, Russia) and Vertic Solonetz (Voronezh region, Russia)"* (p.144)
- 15¹⁵-15³⁰ **Kaganov V.** *Influence of forest stands on soil and ecosystem carbon stocks in the conditions of the European part of Russia* (p.143)
- 15³⁰-15⁴⁵ **Kutkina N.V.** *"Existing condition of the soil resources in the Republic of Khakasia"* (p.147)
- 15⁴⁵-16⁰⁰ **Aliasgharзад N., Javani M., Oustan S.** *"Impact of biochar application on soil microbiological attributes under corn plant culture subjected to water deficit stress"* (p.148)

16⁰⁰-16²⁰ Coffee break

- 16²⁰-16³⁵ **Dengiz O.** *"Assessment of soil quality index for rice cultivated soils based on standard scoring functions and weight assignment approach"* (p.149)
- 16³⁵-16⁵⁰ **Krasilnikov P., Fabrichnova A., Konyushkova M., Semenov I., Sorokin A.** *"Soil micronutrients, food systems and human health in Central Asia and South Caucasus"* (p.150)
- 16⁵⁰-17⁰⁵ **Delibacak S., Ongun A.R.** *"Successive two years treated sewage sludge applications: Effect on corn and second crop wheat yield and some soil properties of sandy loam soil"* (p.151)
- 17⁰⁵-17²⁰ **Terekhova V., Fedoseeva E., Ivanova A., Korolev P., Poputnikova T., Maria P.** *"Investigation of micromycete species distribution to assess the environmental risk of contaminated soil"* (p.154)
- 17²⁰-17³⁵ **Kızılkaya R., Gülser C., Dengiz O.** *"Interpretation of soil urease activities along a topographic and textural gradient"* (p.156)
- 17³⁵-17⁵⁰ **Çelik I., Günal H., Acar M., Acir N., Barut Z.B., Budak M.** *"Biological soil quality as affected by reduced and strategic tillage practices in an alluvial field"* (p. 139)

19⁰⁰-21⁰⁰ Gala dinner

Section: SOIL PHYSICS AND CHEMISTRY**Moderators: Evgeny Shein, Tomáš Lošák**

- 09⁰⁰-09¹⁵ **Kharitonova G.V., Shein E.V., Bayasgalan Amgalan, Gantumur Sambuu, Valeria O. Krutikova V.O., Kharitonov E.V.** *“Soil salt neoformations (Central Mongolia)”*
- 09¹⁵-09³⁰ **Hangişi A., Turgut B.** *“Determining relationships between soil penetration resistance and some soil physical properties”* (p.43)
- 09³⁰-09⁴⁵ **Kovalev I.V., Kovaleva N.O.** *“Aromatic Lignin as a precursor of humic in soils (according to 13C NMR spectroscopy)”* (p.49)
- 09⁴⁵-10⁰⁰ **Kussainova M., Er F., Mikailsoy F.** *“Evaluation of basic kinetic and thermodynamic parameters of catalase in soil (Province of Konya, Turkey)”* (p.52)
- 10⁰⁰-10¹⁵ **Neyshabouri M.R., Kazemi Z., Milani O., D. Zareh Haghi** *“Computation of integral water capacity using leaf temperature at different soil compaction levels”* (p 59)
- 10¹⁵-10³⁰ **Mętrak M., Chibowski, P., Gantumur A., Chmielińska K., Suska-Malawska M.** *“Hg in surface layer of hydrogenic soils in protected areas of the Northern and Central Mongolia”* (p.60)
- 10³⁰-10⁴⁵ **Morachevskaya E.V., Voronina L.P., Kesler K.** *“The role of natural compounds for agrochemical practice”* (p.61)
- 10⁴⁵-11⁰⁰ **Oustan S., Ghazijahani L.M., Najafi N., Reyhanitabar A.** *“Phosphorus aging impacts on sorption-desorption features of lead (Pb) in soils”* (p.69)

11⁰⁰-11²⁰ Coffee break

- 11²⁰-11³⁵ **Čermák P., Mühlbachová G., Lošák T., Hlušek J.** *“Soil testing system in the Czech Republic – upgrade for agricultural practice”* (p.66)
- 11³⁵-11⁵⁰ **Çelik I., Günal H., Acar M., Barut Z.B., Acir N.** *“Effects of ten-year conventional and conservational tillage practices on resistance to physical degradation function”* (p. 47)
- 11⁵⁰-12⁰⁵ **Saygin S.D., Huang C.H., Flanagan D.C., Erpul G.** *“Soil cohesion of two similar silt loam soils”* (p.68)
- 12⁰⁵-12²⁰ **Matula S., Miháliková M., Hernández-Gomis R., Gulamov M., Doležal F.** *“Actual evapotranspiration at a typical standard weather station measured by a smart field lysimeter”* (p.71)
- 12²⁰-12³⁵ **Karaca S., Gülser F., Tekeli A., Gökkaya, T.H.** *“Determination of some soil properties and heavy metal contents at different soil depth of forage fields on the roadside of Van, Turkey”* (p.127)
- 12³⁵-12⁵⁰ **Umarova A., Butylkina M., Gasina A., Ezhelev Z., Suslenkova M.** *“Soil constructions: their functioning, transformation and natural analogs”* (p.77)

13⁰⁰-14⁰⁰ Lunch time

Section: SOIL PHYSICS AND CHEMISTRY**Moderators: Evgeny Shein, Tomáš Lošák**

- 14⁰⁰-14¹⁵ **Lošák T., Hlušek J., Čermák P., Mühlbachová G.** "Changes in the soil phosphorus content after triple superphosphate application into alkaline chernozem and the effect on yields of barley biomass" (p.76)
- 14¹⁵-14³⁰ **Gałka W., Mętrak M., Chibowski P., Sulwiński M., Suska-Malawska M.** "Content and distribution of non-silicate iron forms in hydrogenic soils of the Eastern Pamir (Tajikistan)" (p.78)
- 14³⁰-14⁴⁵ **Dengiz O., Gülser C., Kızılkaya R.** "Soil penetration resistance in cultivated different type soils" (p.79)
- 14⁴⁵-15⁰⁰ **Acar M., Çelik İ., Günal H., Barut Z.B., Acir N.** "Soil water response to conventional, reduced and no-till systems in eastern mediterranean region of Turkey" (p. 55)
- 15⁰⁰-15¹⁵ **Suslenkova M., Umarova A., Butylkina M.** "*Transformation of microstructure of soils with different genesis in the composition of soil constructions with different structure in the conditions of Moscow*" (p.28)
- 15¹⁵-15³⁰ **Ekberli I., Gülser C., Özdemir N.** "*Evaluation of soil stress related with erosion*" (p.140)

Abrosimov K.N., Romanenko K.A., Skvortsova E.B., Shein E.V., Yudina A.V., Klyueva V.V., Khaidapova D.D., Rogov V.V. "*The impact of multiple freeze-thaw cycles on the microstructure of aggregates from a soddy-podzolic soil*" (Poster)

Gasina A., Umarova A., Vaigel A., Suslenkova S. "*Water regime modeling of soil constructions with different structure*" (Poster)

Romanenko K.A., Abrosimov K.N., Fomin D.S., Yudina A.V., Skvortsova E.B. "*Structure dynamic of Chernozem aggregate in multiple wetting-drying cycles*" (Poster)

Pikl M., Zemek F. "*Spectral characteristics in estimation of physical and biochemical properties of soil*" (Poster)

16⁰⁰-18⁰⁰ **Concluding Remarks**

19⁰⁰-20⁰⁰ **Dinner time**

Hour	18 October 2018 - Thursday	CINAR SALOON B
	Section: SOIL FERTILITY AND SOIL FERTILITY MANAGEMENT & FERTILIZERS AND PLANT NUTRITION Moderators: Elmira Saljnikov, Muhammad Riaz	
09 ⁰⁰ -09 ¹⁵	Chernenok V.G. <i>“The method of soil fertility management in the rainfed conditions of North Kazakhstan”</i> (p.84)	
09 ¹⁵ -09 ³⁰	Gülser C. <i>“Spatial variability of soil organic matter content in a cultivated field”</i> (p.85)	
09 ³⁰ -09 ⁴⁵	Çomakli E., Turgut B., Öztaş T. <i>“Determining the temporal variability of the soil quality index in the afforestation areas”</i> (p.86)	
09 ⁴⁵ -10 ⁰⁰	Aparin B.F., Sukhacheva E.Ye. <i>“The Factors and Processes of the Spatial Differentiation of the Soil Cover of Postglacial Terrains in the Forest Area”</i> (p.17)	
10 ⁰⁰ -10 ¹⁵	Mustafayev M.G. <i>“Change of groundwater mineralization and location in irrigated soils in Mugan-Salyan massif”</i> (p.93)	
10 ¹⁵ -10 ³⁰	Kurvantoev R., Dadamhamedova M. <i>“Regulation of agrophysical condition of irrigated soils of Uzbekistan”</i> (p.95)	
10 ³⁰ -10 ⁴⁵	Baliuk S., Zakharova M., Vorotyntseva L. <i>“Condition, protection and reproduction of soil fertility in Ukraine”</i> (p.97)	
	Liudanskiene I., Velykis A., Satkus A., Zukaitis T. <i>“The impact of tillage on soil organic carbon accumulation in clay loam in Lithuania”</i> (Poster)	
11 ⁰⁰ -11 ²⁰	Coffee break	
11 ²⁰ -11 ³⁵	Saljnikov E., Repić B., Koković N., Čakmak D., Saljnikov A., Dakić D., Perović V. <i>“Utilization of biomass ash after combustion in an electric power plant: effect on soil and plant quality”</i> (p.159)	
11 ³⁵ -11 ⁵⁰	Riaz M., Adnan M., Saleem Arif M., Yasmeen T. et al. <i>“Integration biochar with mineral fertilizer enhanced raddish (<i>Raphanus raphanistrum</i>) growth, biomass production and improved soil biochemical properties in nutrient poor alkaline soil”</i> (p.164)	
11 ⁵⁰ -12 ⁰⁵	Mühlbachová G., Čermák P., Káš M., Marková M. et al. <i>“Effect of N fertilization on changes of nutrient concentrations in soils”</i> (p.166)	
12 ⁰⁵ -12 ²⁰	Najafi N., Abbasi M., Oustan Sh., Aliasgharzag N. <i>“Effect of water-saving irrigation on rice growth and micronutrients concentrations under different levels of organic and chemical fertilizers”</i> (p.168)	
12 ²⁰ -12 ³⁵	Kızılkaya R. <i>“Vermiremoval of zinc in various composition of feed mixtures by utilising <i>Eisenia foetida</i>”</i> (p.170)	
12 ³⁵ -12 ⁵⁰	Persikova T., Tsareva M. <i>“The influence of organic fertilizers on the properties of sward-podzolic soil”</i> (p.173)	
13 ⁰⁰ -14 ⁰⁰	Lunch time	

Hour	18 October 2018 - Thursday	CINAR SALOON B
	<p>Section: SOIL FERTILITY AND SOIL FERTILITY MANAGEMENT & FERTILIZERS AND PLANT NUTRITION</p> <p>Moderators: Elmira Saljnikov, Muhammad Riaz</p>	
14 ⁰⁰ -14 ¹⁵	<p>Yasir T.A., Aslam S., Allah Wasaya, Rizwan M.S., Sami-ul-Allah, Ijaz M., Sarfraz M. <i>“Impact of organic amendments on the reduction of cadmium phytoavailability to wheat”</i> (p.174)</p>	
14 ¹⁵ -14 ³⁰	<p>Arslan I., Gülser F. <i>“The effects of different growing media on the development of the (Stevia Rebaudiana) plant and its nutrient content”</i> (p.160)</p>	
14 ³⁰ -14 ⁴⁵	<p>Yildiz, F. <i>“Accuracy analysis of 1/5000 scaled maps produced in Turkey”</i> (p.185)</p>	
16 ⁰⁰ -18 ⁰⁰	<p>Concluding Remarks</p>	
19 ⁰⁰ -20 ⁰⁰	<p>Dinner time</p>	

Hour October 19, 2018 - Friday**FIELD EXCURSION**

08⁰⁰-11⁰⁰ Visiting the fields of the "Kaskelen Agropark" with demonstration of light chestnut foothill soils.

11⁰⁰-13³⁰ Visit to the Ile-Alatau National Park with demonstration of mountain soils.

14⁰⁰-15⁰⁰ Lunch time

15³⁰-18³⁰ City tour

19⁰⁰-20⁰⁰ Dinner time