

SERBIAN SOCIETY OF SOIL SCIENCE



Soils for Future under Global Challenges

Soils for Future under Global Challenges

Sokobanja, Serbia, September 21–24, 2021

CONGRESS PROGRAMME



CONGRESS PROGRAMME

TUESDAY, SEPTEMBER 21 – SOKOBANJA, HOTEL SUNCE

16:00 – 19:00	REGISTRATION
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WEDNESDAY, SEPTEMBER 22 – SOKOBANJA, HOTEL SUNCE

8:00 - 8:30	REGISTRATION
8:30 - 9:00	OPENING CEREMONY
9:00 - 9:45	WELCOME COCTAIL
	PLENARY LECTURES
9:45 - 11:20	Chair: Boško Gajić, Svetlana Antić-Mladenović, Ljubomir Životić, Jerzy Webber
S1-P1 9:45 - 10:05	CONTENT AND SCOPE OF PEDOLOGICAL RESEARCH FOR FOREST SITES MAPPING Olivera Košanin, Rade Cvjetičanin, Marko Perović, Janko Ljubičić, Milan Knežević
S1-P2 10:05 - 10:25	SOIL QUALITY FOR PLUM PRODUCTION IN THE ŠUMADIJA REGION Stanko Milić, Jordana Ninkov, Milorad Živanov, Snežana Jakšić, Tijana Zeremeski, Nadežda Stojanov, Jovica Vasin
S2-P1 10.25 - 10:45	CLIMATE CHANGE AS THE DRIVING FORCE BEHIND THE INTENSIFICATION OF AGRICULTURAL LAND USE Eulenstein Frank, Saljnikov Elmira, Lukin Sergey, Sheudshen Askhad K., Rukhovich Olga, Schindler Uwe, Saparov Galymzhan, Pachikin Konstantin, Thielicke Matthias, Behrendt Axel and Müller Lothar
11:00 - 11:20	DISCUSSION
	SECTION 1: Soil Fundamentals
11:30 - 12:20	Chair: Jerzy Webber, Vjekoslav Tanaskovik, Vladimir Ćirić
S1-1 11:30 - 11:40	HOLOCENE RUBIFICATION IN BOREAL AND SUBBORIAL SOILS OF WESTERN SIBERIA: A PEDOGEOGRAPHICAL ANALYSIS Alina Kurasova, Alexandr Konstantinov, Sergey Loiko, Sergey Kulizhskiy
S1-2 11:40 - 11:50	ANDOSOLS AND PROBLEMS OF THEIR CLASSIFICATION IN CONDITIONS OF SLOVAKIA Jozef Kobza



S1-3 11:50 - 12:00	PEDOLOGICAL CHARACTERISTICS OF GREEK MAPLE (Acer heldreichii Orph.) SITES IN SERBIA Marko Perović, Olivera Košanin, Rade Cvjetičanin
S1-4 12:00 - 12:10	SOIL CLASSIFICATION AND PHYSICAL PROPERTIES OF SOILS OF ŠUMADIJA REGION UNDER PLUM ORCHARDS Milorad Živanov, Jovica Vasin, Stanko Milić, Jordana Ninkov, Snežana Jakšić, Dušana Banjac
12:10 - 12:20	DISCUSSION
	SECTION 2: Soil-water-plant-atmosphere continuum
12:20 - 13:30	Chair: Ružica Stričević, Elmira Saljnikov, Jovica Vasin
S2-1 12:20 - 12:30	GROSS SOIL SURFACE BALANCES OF N, P AND K UNDER ORGANIC AND MINERAL FERTILIZATION Sebastian Kuśmierz, Monika Skowrońska, Piotr Ochal, Tamara Jadczyzyn, Tadeusz Filipek
S2-2 12:30 - 12:40	DECOMPOSITION OF SILVER BIRCH LEAF LITTERFALL AND NUTRIENTS RELEASE AT POST-ARABLE STANDS UNDER TEMPERATE CLIMATE Jerzy Jonczak, Lidia Oktaba, Edyta Pawłowicz, Sandra Słowińska, Marek Kondras, Edyta Regulska, Bogusława Kruczkowska, Urszula Jankiewicz, Izabella Olejniczak, Jarosław Oktaba
S2-3 12:40 - 12:50	EFFECT OF DRIP IRRIGATION ON YIELD, EVAPOTRANSPIRATION AND WATER PRODUCTIVITY OF POTATO IN SEMIARID ENVIRONMENT Borivoj Pejić, Svetozar Samardžić, Ivana Bajić, Ksenija Mačkić, Vladimir Ćirić, Miroljub Aksić
S2-4 12:50 - 13:00	THE INFLUENCE OF BIRCH AFFORESTATION OF POST-ARABLE SOILS ON SOIL ORGANIC MATTER COMPOSITION Lidia Oktaba, Jerzy Jonczak, Marek Kondras, Edyta Pawłowicz, Bogusława Kruczkowska, Urszula Jankiewicz, Jarosław Oktaba, Izabela Olejniczak, Edyta Regulska, Sandra Słowińska
S2-5 13:00 - 13:10	MICROGRANULATES AND BIOSTIMULANTS AS ALTERNATIVES TO DIAMMONIUM PHOSPHATE FERTILIZER IN MAIZE PRODUCTION ON MARSHLAND SOILS IN NORTHWEST GERMANY Thielicke Matthias, Ahlborn Juliana, Eulenstein Frank
13:10 - 13:30	DISCUSSION
13:30 - 15:00	LUNCH TIME



	SECTION 2: Soil-water-plant-atmosphere continuum
15:00 - 15:40	Chair: Borivoj Pejić, Maja Manojlović, Frank Eulenstein
S2-6 15:00 - 15:10	SYNERGISTIC EFFECT OF <i>BACILLUS</i> ISOLATES AND BIOMASS ASH ON SOIL AND BARLEY PLANT QUALITY Aneta Buntić, Sonja Tošić, Magdalena Knežević, Marina Jovković, Biljana Sikirić, Nikola Koković, Elmira Saljnikov
S2-7 15:10 - 15:20	MICROBIOLOGICAL-SANITARY QUALITY OF SOIL AND SAFE VEGETABLE PRODUCTION Kljujev Igor, Karličić Vera, Jovičić-Petrović Jelena, Lalević Blazo, Raičević Vera
S2-8 15:20 - 15:30	COMPARISON OF NDVI AND ARVI VEGETATION INDICES: CASE STUDY IN THE CITY OF BELGRADE, SERBIA Darko Jaramaz, Vesna Mrvić, Radmila Pivić, Sonja Tošić, Biljana Sikirić, Aleksandra Stanojković-Sebić, Jelena Maksimović
S2-9 15:30 - 15:40	IMPACT OF NATURE BASED SOLUTIONS FOR FLOOD RISK MANAGEMENT ON SOIL AND AGRICULTURAL DEVELOPMENT - EU CONSIDERATION AND SERBIAN PROSPECTIVE Ružica Stričević, Zorica Srđević, Nevenka Djurović, Aleksa Lipovac, Marijana Kapović Solomun, Vesna Zupanc, Kristina Potočki
15:40 - 15:50	DISCUSSION
15:50 - 17:00	POSTER PRESENTATIONS: SECTION 1 AND SECTION 2 Chair: Jovica Vasin, Lazar Kaluđerović, Ranko Čabilovski, Matija Krpović, Milorad Živanov
17:00 - 17:30	COFFEE BREAK
17:30 - 19:00	POSTER PRESENTATIONS: SECTION 1 AND SECTION 2 Chair: Jovica Vasin, Lazar Kaluđerović, Ranko Čabilovski, Matija Krpović, Milorad Živanov

**THURSDAY, SEPTEMBER 23 – SOKOBANJA, HOTEL SUNCE**

THURSDAY, September 23 – Sokobanja, Hotel Sunce	
	PLENARY LECTURES
8:30 - 10:10	Chair: Svetlana Antić-Mladenović, Snežana Belanović, Tihomir Predić
S3-P1 8:30 - 8:50	USE OF TRACERS IN SOIL EROSION RESEARCH – APPROACHES AND CHALLENGES Jelena Petrović, Milan Đorđević, Mrđan Đokić, Ranko Dragović, Boško Gajić, Ljiljana Janković Mandić and Snežana Dragović
S3-P2 8:50 - 9:10	CHEMOMETRICS FOR SOIL POLLUTION MONITORING Antonije Onjia
S2-P2 9:10 - 9:30	INTEGRATED WATER RESOURCES MANAGEMENT: EVOLUTION OF CONCEPT, PRINCIPLES AND APPROACHES Mladen Todorović
S4-P2 9:30 - 9:50	ASSESSMENT OF SPATIAL VARIABILITY OF SOIL CONTAMINATION: USE OF A MULTI-SCALE APPROACH ASSOCIATING PROXIMAL SENSORS, PEDOLOGICAL AND MICROSCOPICAL INVESTIGATIONS Simona Vingiani
9:50 - 10:10	DISCUSSION
SECTION 3: Soil degradation and soil and water conservation	
10:10 - 13:10	Chair: Jordana Ninkov, Svetlana Antić-Mladenović, Maja Manojlović, Srđan Šeremešić, Biljana Sikirić
S3-1 10:10 - 10:20	CHANGES OF THE SOIL ENVIRONMENT AFFECTED BY FLY ASH DUMPING SITE OF THE ELECTRIC POWER PLANT Jerzy Weber, Andrzej Kocowicz, Lilla Mielnik, Elżbieta Jamroz
S3-2 10:20 - 10:30	THE IMPACT OF AGRICULTURE ON THE GLEYSOL AND FLUVISOL SOILS: CASE STUDY IN PODRAVINA REGION, CROATIA Stanko Ružičić, Josip Šušnjar, Sibila Borojević Šoštarić, Tomislav Brenko
S3-3 10:30 - 10:40	SOIL TYPES AND THEIR SENSITIVITY TO THE ACIDIFICATION PROCESS IN THE MUNICIPALITIES OF KOSJERIC, POŽEGA AND UŽICE Olivera Košanin, Janko Ljubičić, Jelena Beloica, Snežana Belanović-Simić, Predrag Miljković, Milan Knežević



S3-4 10:40 - 10:50	THE IMPORTANCE OF SOIL DATA UNIFICATION FROM SERBIAN AGRICULTURAL ADVISORY SERVICE AND ACCOMPANYING PROBLEMS Dragana Marinković, Vladimir Ćirić, Pavel Benka, Oskar Marko, Ljiljana Nešić
10:50 - 11:00	DISCUSSION
11:00 - 11:30	COFFEE BREAK
S3-5 11:30 - 11:40	UNCERTAINTY OF SOILGRIDS TESTED ON 1 200 000 SOIL DATA FROM NATIONAL SOIL FERTILITY CONTROL Vladimir Ćirić, Dragana Marinković, Pavel Benka, Oskar Marko
S3-6 11:40 - 11:50	TRACE ELEMENTS AND POLYCYCLIC AROMATIC HYDROCARBONS IN ANTARCTIC SOILS: VARIABILITY ACROSS LANDSCAPES Ivan Alekseev, Evgeny Abakumov
S3-7 11:50 - 12:00	THE CONTENT OF Cd AND Pb IN UNDEVELOPED SOILS AND PLANT MATERIAL IN THE AREA OF NP (NATIONAL PARK) TARA Angelina Novaković, Stefan Miletić, Jelena Beloica, Snežana Belanović Simić ^a , Dragica Obratov-Petković
S3-8 12:00 - 12:10	ADAPTATION OF THE FARMING SYSTEM WITH COVER CROPS GROWING FOR INCREASING SOIL CARBON SEQUESTRATION Vladan Ugrenović, Elmira Saljnikov, Nikola Koković, Olivera Stajković, Dušica Delić, Tara Grujić, Srđan Šeremešić
S3-9 12:10 - 12:20	FTIR SPECTROSCOPIC STUDY OF S-METOLACHLOR SORPTION ON INORGANIC AND ORGANICALLY MODIFIED MONTMORILLONITE FROM BOGOVINA Lazar Kaluderović, Zorica Tomić, Jelena Bogosavljević, Ljubomir Životić, Maja Milošević
S3-10 12:20 - 12:30	LEAD IN ALLUVIAL SOILS CONTAMINATED BY MINING ACTIVITY Radoslava Kanianska, Jozef Varga, Nikola Benková, Miriam Kizeková, Ľubica Jančová
S2-10 12:30 - 12:40	IMPACT OF BARK BEETLE-INDUCED FOREST DIEBACK ON SOIL BASE CATIONS AND NITRATES, AND ITS CONSEQUENCE ON FRESHWATER COMPOSITION Jiří Kaňa, Jiří Kopáček
12:40 - 13:00	DISCUSSION
13:00 - 14:30	LUNCH TIME



SECTION 3: Soil degradation and soil and water conservation	
14:30 - 15:20	Chair: Mirko Knežević, Duško Mukaetov, Olivera Košanin
S3-11 14:30 - 14:40	MERCURY TOTAL CONTENT ACROSS SOIL TYPES IN AGRICULTURAL LAND OF VOJVODINA PROVINCE (SERBIA) Jordana Ninkov, Stanko Milić, Jovica Vasin, Snežana Jakšić, Milorad Živanov, Dušana Banjac, Gorica Cvijanović
S3-12 14:40 - 14:50	SURVEY OF TERRAIN DEPRESSION USING UNMANNED AERIAL VEHICLE Pavel Benka, Nenad Antić, Radoš Zemunac, Atila Bezdán
S3-13 14:50 - 15:00	LAND COVER/LAND USE IN SERVICE OF AGRICULTURAL LAND PROTECTION, USE AND RESTRUCTURING Tihomir Predić, Petra Nikić-Nautha, Stefan Jovanović
S3-14 15:00 - 15:10	ANTHROPOGENIC INFLUENCE ON HUMUS CONTENT IN DIFFERENT SOIL TYPES Jovica Vasin, Snežana Jakšić, Milorad Živanov, Jordana Ninkov, Stanko Milić, Dušana Banjac, Vladimir Ćirić
15:10 - 15:20	DISCUSSION
SECTION 4: Soil and water future socio-economic pathways	
15:20 - 17:00	Chair: Mladen Todorović, Ljubomir Životić, Mile Markoski, Dragana Vidojević
S4-1 15:20 - 15:30	NEW APPROACH TO IMPROVE WATER QUALITY IN THE DANUBE REGION BASED ON THE ECOSYSTEM SERVICES IN FLOODPLAINS: IDES PROJECT Zorica Srđević, Jasna Grabić, Bojan Srđević, Pavel Benka, Senka Ždero, Milica Ilić, Nenad Antić
S4-2 15:30 - 15:40	PROMOTING THE APPLICATION OF SMART TECHNOLOGIES IN AGRICULTURAL WATER MANAGEMENT IN BOSNIA AND HERZEGOVINA Mihajlo Marković, Nataša Čereković, Đurađ Hajder, Nery Zapata, Teresa A. Paço, Erminio Efnisio Riezzo, Sabrija Čadro, Mladen Todorović
S4-3 15:40 - 15:50	THE SPANISH SOCIETY OF SOIL SCIENCE: ACTIVITIES AND PROJECTS Jorge Mataix-Solera, Gael Bárcenas-Moreno, Irene Ortíz-Bernad, Engracia Madejón, Sara Ibáñez-Asensio, Oriol Ortíz, David Badía, Xosé L. Otero, Miquel Aran
S4-4 15:50 - 16:00	ASSOCIATION FRANÇAISE POUR L'ÉTUDE DU SOL: 1934-2021 (FRENCH SOCIETY OF SOIL SCIENCE: 1934-2021) Jacques Thomas (chair), Agnès Gosselin (secretary), Denis Baize (treasurer), Christian Feller (past chair)



<p>S4-5 16:00 - 16:10</p>	<p>ENHANCING MANAGEMENT OF CONTAMINATED SITES USING ENVIRONMENTAL MONITORING DATA AND PRELIMINARY RISK ASSESSMENT METHODOLOGY IN SERBIA Dragana Vidojević, Darko Damnjanović, Lana Kukobat, Nemanja Jevtić, Aleksandra Šiljić</p>
<p>S4-6 16:10 - 16:20</p>	<p>THE BRITISH SOCIETY OF SOIL SCIENCE Sarah Garry</p>
<p>S4-7 16:20 - 16:30</p>	<p>SOCIETAS PEDOLOGICA SLOVACA Jozef Kobza</p>
<p>S4-8 16:30 - 16:40</p>	<p>CERES PROJECT: COUPLING EARTH OBSERVATION BASED INFORMATION AND ARTIFICIAL INTELLIGENCE FOR SOIL ORGANIC CARBON SPATIAL MODELLING Branislav Bajat, Milan Kilibarda, Dragutin Protić, Milutin Pejović, Miloš Kovačević, Ognjen Antonijević, Mileva Samardžić Petrović, Aleksandar Sekulić, Petar Bursać, Mladen Nikolić</p>
<p>16:40 - 17:00</p>	<p>DISCUSSION</p>
<p>17:00 - 17:30</p>	<p>COFFEE BREAK</p>
<p>17:30 - 19:00</p>	<p>POSTER PRESENTATIONS - SECTION 3 Chair: Jovica Vasin, Lazar Kaluđerović, Ranko Čabilovski, Matija Krpović, Milorad Živanov</p>

**FRIDAY, SEPTEMBER 24, 8:00 – 19:00 – FIELD TRIP****Timeline**

08:00	Departure – Hotel Sunce, parking
08:00 – 9:00	Pedological profile of Calcomelanosol, natural devastated grassland – Nikolinci, Rtanj Mountain
9:00 – 10:30	Tour to apple orchard in Žučkovac, AD Terravita – Sokobanja, Pedological profile of Vertisol
10:30 – 12:00	Tour to waterfall Ripaljka, the first natural monument in Serbia protected by law – Ozren Mountain
12:00 – 12:45	Pedological profile of Calcocambisol, mixed forest – Ozren Mountain
12:45 – 13:45	Pedological profile of Calcomelanosol, natural grassland – Ozren Mountain
13:45 – 15:00	Lunch in Hotel Sunce
15:00 – 17:30	Tour to Čele kula (skull tower), city of Niš
20:00	Return to hotel Sunce – Sokobanja



POSTER PRESENTATIONS

SECTION 1: Soil Fundamentals (Wednesday, September 22)	
S1-1	<p>ELEMENTAL COMPOSITION OF HUMIC ACIDS ISOLATED FROM CHERNOZEMS, VERTISOLS, REGOSOLS, PLANOSOLS AND HISTOSOLS</p> <p>Svetlana Radmanović, Mirjana Marković, Nikola Živković, Đuro Čokeša, Uroš Jovanović, Jelena Bogosavljević</p>
S1-2	<p>TEMPERATURE AND MOISTURE REGIMES OF RENDZINA SOILS IN SERBIA ACCORDING TO THE USDA SOIL TAXONOMY SYSTEM</p> <p>Svetlana Radmanović, Aleksandar Đorđević</p>
S1-3	<p>CORRELATION BETWEEN RANKER SOIL TYPE OF NATIONAL CLASSIFICATION SYSTEM AND LEPTOSOLS REFERENCE SOIL GROUP OF WORLD REFERENCE BASE FOR SOIL RESOURCES – THEORETICAL APPROACH</p> <p>Ljubomir Životić, Aleksandar Đorđević, Day Boitumelo Mohlala, Jelena Bogosavljević</p>
S1-4	<p>PEDO–EXCEL: A SIMPLE EXCEL TOOL/DATABASE TO PREPARE AND ELABORATE SOIL PROFILE DATA</p> <p>Mirko Knežević, Ana Topalović, Ljubomir Životić</p>
S1-5	<p>MICROBIOLOGICAL AND CHEMICAL PROPERTIES OF AGRICULTURAL SOILS IN SOUTH-WESTERN SERBIA</p> <p>Snežana Andjelković, Zoran Lugić, Snežana Babić, Jordan Marković, Vladimir Zornić, Mirjana Petrović, Filip Bekčić</p>
S1-6	<p>BACTERIAL COMMUNITIES IN ACIDIC SOILS</p> <p>Jelena Jovičić-Petrović, Mira Milinković, Vera Karličić, Blažo Lalević, Igor Kljujev, Vera Raičević</p>
S1-7	<p>CHARACTERISTICS OF SOIL QUALITY OF THE SURČIN MUNICIPALITY AND ITS SIGNIFICANCE FOR PLANT PRODUCTION</p> <p>Marina Jovković, Jelena Maksimović, Zoran Dinić, Darko Jaramaz, Radmila Pivić, Aleksandra Stanojković-Sebić</p>



S1-8	<p>WATER-PHYSICAL, MECHANICAL AND CHEMICAL PROPERTIES OF ARIC REGOSOLS FROM POVARDARIE REGION</p> <p>Mile Markoski, Tatjana Mitkova, Vjekoslav Tanaskovik, Stojanče Nečkovski</p>
S1-9	<p>TOXIC ELEMENTS IN SOILS FROM VLASINA REGION</p> <p>Sanja Sakan, Aleksandra Mihajlidi Zelić, Sandra Škrivanj, Stanislav Frančišković Bilinski, Halka Bilinski, Dragana Đorđević</p>
S1-10	<p>STRUCTURAL STABILITY OF AGGREGATES OF VERTISOLS DEPENDING ON THE CONTENT OF ORGANIC MATTER, CLAY AND CALCIUM CARBONATE</p> <p>Dragan Radovanović, Ljiljana Nešić, Vladimir Ćirić, Dragana Marinković, Bojan Vojnov</p>
S1-11	<p>CONTENT OF AVAILABLE CALCIUM AND MAGNESIUM IN THE VERTISOLS OF THE PČINJA DISTRICT</p> <p>Slađana Golubović, Aleksandar Đorđević, Mladen Dugonjić, Sanja Perić, Dobrila Randelović, Milić Vojinović</p>
S1-12	<p>DIVERSITY AND PLANT GROWTH PROMOTING POTENTIAL OF RHIZOBIA ISOLATED FROM ROOT NODULES OF <i>LOTUS CORNICULATUS</i> L.</p> <p>Magdalena Knežević, Aneta Buntić, Merisa Avdović, Nataša Rasulić, Đorđe Kuzmanović, Dušica Delić, Olivera Stajković-Srbinić</p>
S1-13	<p>MINERALOGICAL COMPOSITION OF GAJNJAČA SOIL IN KRNJEVO VITICULTURE AREA</p> <p>Natasa Nikolić, Zorica Tomić, Lazar Kaludjerović, Aleksandar Đorđević</p>
S1-14	<p>COMPARATIVE ANALYSIS OF PHYSICO-CHEMICAL AND MICROBIOLOGICAL PARAMETERS OF SOIL UNDER MISCANTHUS GIGANTEUS GROWN IN DIFFERENT AGRO-ECOLOGICAL CONDITIONS</p> <p>Zoran Dinić, Magdalena Knežević, Radmila Pivić, Aleksandra Stanojković-Sebić, Željko Dželetović, Marina Jovković, Jelena Maksimović</p>
S1-15	<p>ORGANIC FARMING PRACTICE IMPROVES SOIL MICROBIAL PROPERTIES UNDER SOYBEAN PRODUCTION</p> <p>Jelena Marinković, Dragana Miljaković, Branislava Tintor, Gorica Cijanović, Vuk Đorđević, Vojin Đukić, Marjana Vasiljević</p>



S1-16	<p>RESEARCH ON THE FAUNA OF EARTHWORMS (ANNELIDA: LIGOCHAETA) OF SOKOBANJA</p> <p>Jovana Sekulić, Mirjana Stojanović, Tanja Trakić, Filip Popović, Gorica Cvijanović</p>
S1-17	<p>SOIL STRUCTURE OF CALCOMELANOSOLS FROM THE RTANJ MOUNTAIN, SERBIA</p> <p>Jelena Bogosavljević, Svjetlana Radmanović, Ljubomir Zivotić, Lazar Kaluđerović, Aleksandar Đorđević</p>
S1-18	<p>THE VALUE OF DIFFERENT TYPES OF ACIDITY OF PSEUDOGLEY SOILS IN THE KRALJEVO BASIN UNDER DIFFERENT LAND USES</p> <p>Goran Dugalić, Marijana Dugalić, Ljiljana Bošković-Rakočević, Vera Rajičić</p>
<p>SECTION 2: Soil-water-plant-atmosphere continuum (Wednesday, September 22)</p>	
S2-1	<p>PROPERTIES AND GROUNDWATER LEVEL OF HUMOGLEY SOIL OF SOUTHERN BAČKA</p> <p>Saša Pekeč, Marina Milović, Velisav Karaklić</p>
S2-2	<p>EFFECT OF <i>CHLORELLA VULGARIS</i> ON SWISS CHARD (<i>BETA VULGARIS L. VAR. CICLA</i>) GROWTH PARAMETERS AND YIELD</p> <p>Vladimira Seman, Timea Hajnal-Jafari, Dragana Stamenov, Simonida Đurić</p>
S2-3	<p>ASSESSMENT OF A SMARTPHONE APP FOR POTATO IRRIGATION SCHEDULING</p> <p>Marie Therese Abi Saab, Ihab Jomaa, Sleiman Skaf, Salim Fahed, Rend Sleimen, Rossella Albrizio, Mladen Todorovic</p>
S2-4	<p>FUNGAL MICROBIOME OF FOREST SOIL: A HIDDEN MICROCOSMOS UNDER BLUEBERRY ROOTS</p> <p>Vera Karličić, Jelena Jovičić-Petrović, Igor Kljujev, Vesna Golubović Ćurguz, Blažo Lalević, Vera Raičević</p>
S2-5	<p>WATER QUALITY MONITORING OF THE FIRST AQUIFER IN THE AREA OF IRRIGATION SYSTEMS OF SOUTHWESTERN BAČKA</p> <p>Ksenija Mačkić, Ljiljana Nešić, Borivoj Pejić, Milivoj Belić, Vladimir Ćirić, Lazar Pavlović</p>



S2-6	<p align="center">THE EFFECT OF GRASS COVER N FERTILIZATION ON QUALITY OF CABERNET SAUVIGNON CV GRAPES</p> <p align="center">Aleksandar Simić, Zoran Pržić, Željko Dželetović, Marija Ćosić, Gordana Andrejić, Nebojša Marković, Snežana Brajević</p>
S2-7	<p align="center">DETERMINATION OF IRRIGATION REGIME IN VINE ORCHARDS IN POVARDARIE REGION OF NORTH MACEDONIA MONITORED WITH QGIS</p> <p align="center">Stojanche Nechkovski, Vjekoslav Tanaskovik, Ordan Cukaliev, Mile Markoski</p>
S2-8	<p align="center">MINERAL COMPOSITION OF WHEAT GRAINS DEPENDING ON NITROGEN AND ZINC FERTILIZATION</p> <p align="center">Ranko Čabilovski, Maja Manojlović, Klara Petković, Dragan Kovačević, Mirna Štrbac, Milana Vondraček</p>
S2-9	<p align="center">EFFECT OF DIGESTATES AND MANURES APPLICATION ON KOHLRABI YIELD AND QUALITY</p> <p align="center">Dragan Kovačević, Maja Manojlović, Ranko Čabilovski, Klara Petković, Zoran Ilić, Abu Baker Brayek, Mirna Štrbac, Mirjana Trninić</p>
S2-10	<p align="center">EFFECTS OF APPLICATION METHOD AND TYPE OF MINERAL FERTILIZERS ON ACID SOIL FERTILITY</p> <p align="center">Biljana Sikirić, Olivera Stajković-Srbinić, Nikola Koković, Elmira Saljnikov, Marina Jovković, Aneta Buntić, Vesna Mrvić</p>
S2-11	<p align="center">FOLIAR APPLICATION OF ZINC IN ALFALFA PRODUCTION</p> <p align="center">Klara Petković, Maja Manojlović, Ranko Čabilovski, Đorđe Krstić, Dragan Kovačević, Mirna Štrbac</p>
S2-12	<p align="center">WATER REQUIREMENTS OF FRUIT AND VINE PLANTATIONS IN THE AREA OF THE KOLUBARA DISTRICT IN PRESENT AND FUTURE CLIMATE CONDITIONS</p> <p align="center">Marija Ćosić, Aleksa Lipovac, Mirjam Vujadinović Mandić, Ružica Stričević, Nevenka Đurović, Zorica Ranković Vasić, Ljubomir Životić</p>
S2-13	<p align="center">GROWTH CONTROL AND FRUIT QUALITY OF APPLE CULTIVAR 'GALA SCHNIGA' USING ROOT PRUNING TECHNIQUE</p> <p align="center">Boban Đorđević, Dejan Đurović, Gordan Zec, Boškov Đorđe, Vladimir Skoko</p>
S2-14	<p align="center">EMERGENCE AND INITIAL GROWTH OF ALLIUM URSINUM IN DIFFERENT SOIL TYPES</p> <p align="center">Stefan Gordanić, Dragoja Radanović, Sara Mikić, Snežana Mrđan, Željana Prijjić, Tatjana Marković, Đorđe Moravčević</p>



S2-15	<p>INFLUENCE OF MYCORRHIZAL FUNGI ON SATUREJA MONTANA L. GROWN IN CHERNOZEM AND ARENOSOL</p> <p>Snežana Mrđan, Jovan Crnobarac, Dragoja Radanović, Tatjana Marković, Simonida Đurić, Vladimir Filipović, Ana Dragumilo, Stefan Gordanić, Sara Mikić, Željana Prijic</p>
S2-16	<p>PREDICTION OF SOIL TEMPERATURE BY AIR TEMPERATURE: A CASE STUDY FOR RIMSKI ŠANČEVI</p> <p>Slavica Radovanović, Gordana Matović, Željko Mardešić, Enika Gregorić, Vesna Počuča</p>
S2-17	<p>PROJECTION OF THE WATER REGIME PARAMETERS OF ZEMUN CHERNOZEM FOR WINTER WHEAT PRODUCTION BY THE END OF THE 21ST CENTURY</p> <p>Gordana Matović, Vesna Počuča, Enika Gregorić, Mirjam Vujadinović Mandić</p>
S2-18	<p>THE ISSUE ABOUT FERTILIZER RECOMMENDATION IN APPLE ORCHARDS IN NORWAY</p> <p>Milica Akšić Fotirić, Vlado Ličina, Simić Aleksandar, Tore Krogstad, Mekjell Melland</p>
S2-19	<p>NATURAL CHARACTERISTICS OF THE GACKO AREA</p> <p>Vesna Tunguz, Ljiljana Nesić, Nebojša Novković</p>
S2-20	<p>A COMPARISON OF FIVE METHODS FOR REFERENCE EVAPOTRANSPIRATION ESTIMATION IN THE WEST, CENTRAL, EASTERN, AND SOUTHERN SERBIA</p> <p>Dunja Sotonica, Aleksa Lipovac, Ružica Stričević, Nevenka Đurović, Marija Ćosić</p>
<p>SECTION 3: Soil degradation and soil and water conservation (Thursday, September 23)</p>	
S3-1	<p>DISSOLVED ORGANIC CARBON AS A CONTROLLING FACTOR OF NICKEL AVAILABILITY IN RECLAMATION OF BARREN SOIL</p> <p>Svetlana Antić Mladenović, Mirjana Kresović, Walter Wenzel, Matija Krpović, Vlado Ličina</p>
S3-2	<p>THE IMPACT OF TAILING OUTFLOW ON THE AVAILABILITY OF POTENTIALLY TOXIC ELEMENTS (Zn, Cu, Pb, Cd) IN SOILS NEAR TO FORMER MINE STOLICE (SERBIA)</p> <p>Snežana Belanović Simić, Predrag Miljković, Jelena Beloica, Sara Lukić, Aleksandar Baumgertel, Vojin Ilić, Toplica Đukić, Ratko Kadović</p>



S3-3	<p align="center">CONTENT OF ORGANIC CARBON SOLUBLE IN HOT WATER (HWOC) IN WINTER COVER CROPS WITH SUBSEQUENT SOWING OF MAIZE GROWN ON CHERNOZEM</p> <p align="center">Bojan Vojnov, Srdjan Šeremešić, Branko Čupina, Djordje Krstić, Svetlana Vujić, Milorad Živanov, Dragan Radovanović</p>
S3-4	<p align="center">ASSESSMENT OF SOIL EROSION USING THE EROSION POTENTIAL METHOD AND THE UNIVERSAL SOIL LOSS EQUATION IN THE GRAČANICA RIVER CATCHMENT (PRIJEPOLJE)</p> <p align="center">Milica Caković, Aleksandar Baumgartel, Predrag Miljković</p>
S3-5	<p align="center">PLATINUM GROUP ELEMENTS AND RARE EARTH ELEMENTS IN URBAN PARK SOILS IN NOVI SAD, SERBIA</p> <p align="center">Maja Manojlović, Massimo Angelone, Dragana Vidojević, Giovanna Armiento, Ranko Čabilovski, Vladimir Ćirić, Maria Rita Montereali, Cinzia Crovato, Maurizio De Cassan</p>
S3-6	<p align="center">CONTENT OF HEAVY METALS IN ARABLE PLOTS OF RASINA DISTRICT</p> <p align="center">Biljana Sikirić, Vesna Mrvić, Olivera Stajković-Srbinović, Zoran Dinić, Darko Jaramaz, Nikola Koković</p>
S3-7	<p align="center">SOIL FERTILITY IN ORGANIC AND CONVENTIONAL PRODUCTION SYSTEMS</p> <p align="center">Mirna Štrbac, Maja Manojlović, Ranko Čabilovski, Klara Petković, Dragan Kovačević</p>
S3-8	<p align="center">THE INFLUENCE OF SOIL ORGANIC MATTER ON ADSORPTION BEHAVIOUR OF TERBUTHYLAZINE IN BIOCHAR AMENDED SOILS</p> <p align="center">Nadežda Stojanov, Tijana Zeremski, Snežana Maletić, Jelena Tričković</p>
S3-9	<p align="center">SPATIAL PREDITION OF THE SOIL ORGANIC MATTER IN SOILS OF OHRID VALLEY</p> <p align="center">Duško Mukaetov, Hristina Poposka, Marjan Andreevski</p>
S3-10	<p align="center">SPARSELY CROSSLINKED BIODEGRADABLE HYDROGEL AS A MULTIFUNCTIONAL SOIL AMENDMENT</p> <p align="center">Leonid Ilyasov, Nikolay Khrabrov, Irina Panova</p>



S3-11	<p>CARBON SATURATION POTENTIAL IN LONG-TERM WINTER WHEAT CROPPING SYSTEMS ON CHERNOZEM</p> <p>Srđan Šeremešić, Stanko Milić, Jovica Vasin, Bojan Vojnov, Vladimir Ćirić, Vladan Ugrenović, Milorad Živanov</p>
S3-12	<p>THE DYNAMICS OF CHEMICAL PROPERTIES IN THE MINE TECHNOSOLS AFTER SIX YEARS OF RECLAMATION</p> <p>Nenad Malić, Mihajlo Marković</p>
S3-13	<p>BIOACCUMULATION OF CHROMIUM IN <i>MEDICAGO SATIVA</i> L. AND <i>TRIFOLIUM PRATENSE</i> L. ON DIFFERENT SOIL TYPES OF SERBIA</p> <p>Snežana Jakšić, Savo Vučković, Jordana Ninkov, Jovica Vasin, Stanko Milić, Milorad Živanov, Vedrana Komlen</p>
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S3-15	<p>POLLUTION INDICES OF TRACE ELEMENTS IN SOILS OF PČINJA AND JABLANICA DISTRICTS</p> <p>Andrijana Miletić, Milica Lučić, Aleksandar Đorđević, Antonije Onjia</p>
S3-16	<p>NATURALLY OCCURRING RADIONUCLIDES AND BASIC CHARACTERISTICS OF SOIL AND ASH SAMPLES NEARBY COAL-FIRED POWER PLANTS</p> <p>Ivana Vukašinović, Dragana Todorović, Nataša Nikolić</p>
S3-17	<p>LAND USE EFFECTS ON SOIL PORE-SIZE DISTRIBUTION AND SOIL WATER RETENTION</p> <p>Boško Gajić, Branka Kresović, Miodrag Tolimir, Ljubomir Životić, Aleksa Lipovac, Katarina Gajić, Zorica Sredojević</p>



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