

Monday, November 28			Session 1: Soil ecosystem and agrosystem services		
9:00-9:30	Opening		UNAM and IUSS authorities		
9:30-9:50	Soil porosity influenced by manure application in a Mediterranean agriculture system		F. Domingo, A.D. Bosch, M.R. Yagüe, R.M. Poch , J. Boixadera		
9:50-10:10	Micromorphological diagnostics of virgin and post-agrogenic evolution of slightly-humic Episalic Solonetz in the north of the Caspian Lowland, Russia		Marina Lebedeva , Maria Konyushkova		
10:10-10:30	How management and fertilization techniques affect the evolution of soil porosity in rainfed cereal crops		N. Mateo-Marín , R.M. Poch, A. Bosch-Serra		
10:30-10:50	Coffee Break				
Session 2: Micromorphology of key pedogenetic processes					
10:50-11:10	Message in a bottle: A look into the far future of human induced calcretes		Danny Itkin , Haim Goldfus, H. Curtis Monger		
11:10-11:30	Micromorphological characterization of some soils developed in different parent materials in Kuru, Plateau State		A.M. Hassan , B.A. Raji		
11:30-11:50	Morphological characterization and quantification of the pore space in a sequence of tepetates in Tlaxcala		Pogosyan, L. , Diaz, J., Gastelum, A., Prado, B., Abrosimov K., Romanenko K.		
11:50-12:10	Relict Vertisols in Mexico: Paleoenvironmental significance and use in the ancient Mesoamerican cultures		Elizabeth Solleiro , Sergey Sedov		
12:10-12:50	Tribute to Nicolas Fedoroff				
12:50-13:30	Poster Session				
13:30-14:30	Lunch				
Session 3: Microscopic indicators of incipient pedogenesis on natural and artificial surfaces					
14:30-14:50	The role of abiotic carbonaceous filaments on the long term stability of cryosols in Spitzbergen		M.A. Courty , Marlin Christelle		
14:50-15:10	Micromorphological diagnostics of Biogenic crusts and Microhorizons of initial pedogenesis on Phosphogypsum Dump		V.P. Belobrov , M.P. Lebedeva, A.M., Grebennikov, E.L.Torochkov, A.I. Ryashko, M.I.Lebedev		
15:10-15:30	Soils of Antarctic oasis: interlacing of organisms and mineral material at microscopic scale		Sergey Sedov , Elya Zazovskaya, Dmitry Fedorov-Dvydov		
15:30-15:50	Common and specific elements of the microfabrics of vesicular soil horizons and desert varnish in the Mojave (USA) and Trans-Altai Gobi (Mongolia) Deserts		M.P. Lebedeva , D.L. Golovanov, V.A., Shishkov		
15:50-16:10	Coffee Break				
Session 4: Soil-biota interactions on microscale					
16:10-16:30	Characterization of the soil macroporosity produced by the macrofauna activity: effect on the water mobility in clay soils		B. Prado , A. Gastelum, E. Huerta, C. Duwig, P. Delmas, J. Márquez		
16:30-16:50	Rice husks around subsurface irrigation pipes improves porosity through faunal activity		R.M.Poch , M. Pascual, J. Rufat, J.M.Villar		
16:50-17:10	Soil formation by halophyte plants from saline hydrogels: from vegetal patch		M.C. Gutiérrez Castorena , C.A. Ortiz Solorio, T. González Vargas, P. Sánchez Guzmán.		

	to micromorphological level	
17:10-17:30	Morphological and bacterial characterization of biospeleothems from a lava tube system in Central Mexico	Rocío J. Alcantara-Hernández, Diego M. Saavedra Olea, Rafael López Martínez
17:30-18:00	Ice Breaking Party: Presentation of the choral ensemble <i>Paleovoices</i>	

Monday, November 28		Poster Session	
Geographical and genetic patterns of soil aggregates formation at micro-scale: a case-study of arable soils in the South of European Russia		<u>A.S. Sorokin</u> , K.N. Abrosimov, M.P. Lebedeva, G.S. Kust	
The evolution of the Quaternary paleo-karst landscape in the Quintana Roo region: from the field to microscopic characteristics.		<u>Griset Sara, Valera Daisy, Vela Daniel, Díaz Jaime, López Rafael, Solleiro Elizabeth</u>	
Macroporosity of a Typic Argiudoll with different agricultural use intensity under no tillage		Filipe Behnrends Kraemer, <u>Héctor José María Morrás</u>	
Micro-morphological and geochemical indicators in pedogenic carbonates in Mexico's Teotihuacan Valley: Paleo-environmental significance		<u>Daisy Valera-Fernández</u> , Elizabeth Solleiro Rebolledo, Sergey Sedov	
Micromorphological evidences of calcite neoformation in highly weathered soils in Northern Togo (West Africa)		H.U. Rehman, J.M. Ubalde, F. Scarciglia, <u>R. M. Poch</u> .	
The fragipan in Karelia Luvisol profile		<u>Lilith Pogosyan</u>	
Soil forming processes in recently dessicated lake sediments in the basin of Mexico		<u>Jose Manuel Bautista Guzmán</u> , Christina Siebe Grabach	
Micromorphological properties of clay-illuvial soils of the North-Western Poland		<u>Elzbieta Musztyfaga</u> , Mirosław Kobieerski, Joanna Kowalska, Ryszard Mazurek	
Vertisol pedogenesis: pedoturbation and shearing processes at macro- and microscale		<u>Irina Kovda and Marina Lebedeva</u>	
Origin of vegetated earth mounds in the Pantanal Wetlands identified throw macro and micromorphological evidences on sodic soils		<u>Jairo C. Oliveira Junior</u> , Pablo Vidal-Torrado	
Weathering vs soil development in the Mountains of Guerrero, Mexico		<u>Héctor V. Cabadas-Báez</u> , M.V. Cervantes-Gutiérrez, Elizabeth Solleiro, Jorge Gama Castro.	
Soil quality in extreme environments: the case of Pico de Orizaba, Mexico		<u>P.Molina Sevilla</u> , Sergey Sedov, R. Navarro-González, C.P. McKay	
Extreme ultracontinental pedogenesis in mountain of South Siberia: endemic soils and soil features		<u>M. Bronnikova</u>	
Aspergillus niger inoculation in volcanic ash soils to solubilise Phosphorous		<u>Nadeshda Cosette Galvan-Tejada</u> , Christina Siebe	
Micro-aggregation due to exocelular polymers in a coarse-textured Technosol rhizosphere		<u>Françoise Watteau</u> , Nouhou Salifou Jangorzo, Christophe Schwartz	
Microscopic study of mycorrhizal associations: the importance of herbarium preserved collections		<u>Iris Suárez Quijada</u> , Ma. P. Ortega Larrocea.	
Micromorphological characteristics of biogenic silica in soils		<u>Danuta Kaczorek</u> , Otto Ehrmann, Daniel Puppe, Michael Sommer	
Micromorphological evidences of pedogenetic changes due to anthropic action in Amazonian Dark Earth in the Central Amazon, Brazil		Rodrigo S. Macedo; Wenceslau G. Teixeira; Marcelo M. Corrêa, Gilvan C. Martins; <u>Pablo Vidal-Torrado</u>	
Mid Holocene buried paleo-gypsisol in the semiarid Ebro Basin (NE Spain)		Fernando Pérez-Lambán, <u>Rosa M. Poch</u> , David Badía, Jesús V. Picazo, José Luis Peña-Monné, María M. Sampietro-Vattuone	
An explanation of the origin of iron enrichment in relict soils of terra fusca type developed on the upper Miocene (Sarmatian) detrital limestones based on the micromorphological analysis and using EDS microanalysis: an example from the Holy Cross Mts. (middle Poland)		Zbigniew Zagórski, <u>Łukasz Uzarowicz</u>	
Specificity of the micromorphology of interglacial and interstadial paleosol complexes of the Middle and Late Pleistocene in the center of the East European Plain		<u>Panin P.G.</u> , Morozova T.D., Timireva S.N., Kononov Yu.M.	

Tuesday, November 29			Session 5: Archaeological soil micromorphology (I)		
9:00-9:20	Micromorphological Investigations of Soils from Indus settlements in NW India	<u>Sayantani Neogi</u>			
9:20-9:40	Landscape Change in the Aegean	<u>Sean Taylor</u>			
9:40-10:00	Insights into site formation and settlement: a soil micromorphological study of constructed floor surfaces from Loc Giang (Long An, Province, Vietnam)	<u>Elle Grono</u>			
10:00-10:20	Pigment production on Rapa Nui: micromorphological features of prehistoric pits on the island	<u>Svetlana V. Khamnueva</u> , Hans-Rudolf Bork, Andreas Mieth, Stefan Dreibrodt, Carolin Lubos, Welmoed Out			
10:20-10:40	Coffee Break				
Session 5: Archaeological soil micromorphology (II)					
10:40-11:00	Micromorphological features as evidences of Bronze Age ancient anthropogenic impact (Late Bronze age Muradumovo settlement, Ural region, Russia).	<u>Alexandra Golyeva</u> , Olga Khokhlova, Nickolay Sherbakov, Iia Shuteleva			
11:00-11:20	Environmental conditions during the Holocene climatic optimum in Sonora, Mexico and its impact in the human occupation	<u>Georgina Ibarra</u> , Sergey Sedov, Elizabeth Solleiro, Rafael López, Jaime Díaz			
11:20-11:40	Micromorphological features of medieval habitation deposits formed in different environmental backgrounds	<u>Bronnikova M.A.</u> , Murasheva V.V., Kochkina A.F., Stashenkov D.A., Arzhantseva I.A.			
11:40-12:00	Evidence of anthropogenic degradation in the “black soil” of Teotihuacan: an approach through micromorphology	<u>Serafín Sánchez Pérez</u> , Elizabeth Solleiro Rebolledo, Sergey Sedov, Emily McClung de Tapia			
12:00-12:30	Presentation of the book “Manual de micromorfología de suelos y técnicas complementarias”	<u>J.C. Loaiza, RM. Poch</u>			
12:30-13:30	Poster Session				
13:30-14:30	Lunch				
Session 6: Novel methods and techniques					
14:30-15:00	Challenges and opportunities of soil micromorphology in the digital era	<u>Klaudia Oleschko Lutkova</u>			
15:00-15:20	Adjusting soil micromorphology to characterize the durable natural and anthropic ancient surfaces made from natural polymers	<u>Marie-Agnes Courty</u>			
15:20-15:40	Quantification of structure descriptors during Technosol evolution: image analysis of soil sections, movie of structure dynamics, 2D to 3D micromorphological analysis	Nouhou Salifou Jangorzo, Christophe Schwartz, <u>Francoise Watteau</u>			
15:40-16:00	Multifractal parameterization of soil porosity during sealing	Edison Aparecido, Mome Filho, Daniel Giménez, Richard Heck, <u>Miguel Cooper</u>			
16:00-16:20	Spectral signatures of different degrees of organic matter decomposition using giga images of thin sections	<u>M.C. Gutiérrez-Castorena</u> , J.C. Romero-Figueroa, M.N. Rodríguez-Mendoza, J.C.A. Ortiz Solorio, J. Sánchez-Escudero, Tania González Vargas,			
16:20-16:40	Analysis of ectomycorrhizal and bacterial communities in the formation of soil aggregates through thin sections of Giga-images	<u>A. Jiménez-Martínez</u> , M.C. Gutiérrez Castorena, E. Vladimir Gutiérrez Castorena, E. Suástegui Méndez, J. Pérez Moreno			
16:40-17:00	Coffee Break				

Session 7: New fields on soil micromorphology

17:00-17:20	Micromorphology of seismic liquefaction processes (Betic Cordillera, Spain)	E. Roquero , P.G. Silva, Rodríguez Pascua M.A., P. Huerta
17:20-17:40	Micromorphology of Technosols developed on settling ponds and spoil heaps of the abandoned Fe sulphide mines in Poland	Łukasz Uzarowicz , Zbigniew Zagórski
17:40-18:00	Micromorphological indicators of the mining industry impact on soils of Sonora river basin: case of Buenavista del Cobre.	Yazmin Rivera , Eliuth Romero, Jaime Díaz, Sergey Sedov, Francisco Romero, Elizabeth Solleiro, Daniel Ramos
18:00-18:40	IUSS Business Meeting	

Tuesday, November 29		Poster Session
Micromorphological analysis of anthropogenic gleyic paleosol-sedimentary sequence in the archaeological site of La Joya, Veracruz, Mexico.	<u>Annick Daniels</u> , Jaime Díaz	
Archaeometric characterization of Ibero-American shipping containers	Saúl A. Guerrero Rivero, Patricia Fournier G. , John Carpenter, Sergey Sedov	
Buried A horizons in Final Upper Palaeolithic rockshelters in the middle course of the Montsant River, NE Iberia: anthropic and environmental implications.	M. Mercè Bergadà, Rosa M. Poch , Pilar García-Argüelles, Jordi Nadal and Josep M. Fullola	
Micromorphology of floors, the Plaza of the Pyramid of the Moon, Teotihuacan.	Andrés Michael Vite Galindo , Serafín Sánchez Pérez, Verónica Ortega Cabrera	
Micromorphology of paleosol-sedimentary sequences at lake margins of Mexico Basin: reconstructing paleoenvironments to early agriculture	Iran Rivera-González ; Sergey Sedov; Guillermo Acosta Ochoa; Emily McClung	
Paleoecology reconstruction and cultural development during the Mid Holocene in the Valle de Aburrá study case of five archaeological sites	<u>Juan Pablo Diez Ramirez</u>	
Micromorphological investigation of the sphero-conical vessels from Volga Bulgaria.	Alsu Nuretdinova , Sergey Sedov, Maria Bronnikova	
Landscape of the ancient man in the Antiquia Central Massif: A geo-archaeological and environmental interpretation of an archaeological site in Sabaneta municipality (Colombia)	<u>Andrés Godoy Toro</u>	
Evaluation of soil porosity and wildlife activity through image analysis. Influence of tillage and fertilization.	<u>N. Mateo-Marín</u> , R.M. Poch, D. Quílez	
Effect of root decomposition on the soil structure using micromapping	C.A.Torres-Guerrero , M.C. Gutiérrez-Castorena, E.V. Gutiérrez-Castorena, C.A.Ortiz-Solorio, J.M. Herrera	
Proposal of field-to-grain pipeline using novel analytical methods and techniques	<u>Korneychik Oleg</u>	
Impregnants of reduced toxicity for preparation of clayey soil's thin sections and blocks	<u>Rafael E. Grigolo</u> , Sonia A.L.S. Moraes, Laura F., Simoes da Silva, <u>Miguel Cooper</u> , Pablo V.Torrado	
Soil features micro-mapping using map Algebra and Giga-images of Soil Thin sections	E. S. Méndez , M. C. Gutiérrez C., C.O. Solorio, E.V. Gutiérrez Castorena, L. C. Bontemps, M.N. Rodríguez Mendoza.	
Bibliometry of Soil Micromorphology in Brazil: State of the Art	Anna Karoline Silva, Thaís Helena Godoy Sanches , Laura Fernanda Simões da Silva, <u>Miguel Cooper</u>	
Sediment properties of slope deposits in landslide areas of the Trans-Mexican Volcanic Belt	Wilde, M.; Jäger, D.; Sedov, S.; Solleiro, E.; Morales, W.; Rodriguez, S.; Díaz, J.; Terhorst, B., Sprafke, T.	
Morphological micro analysis in soils and sediments affected by an acid mine drainage.	<u>Ziegler, F.</u> , Prado, B. , Mora, L. , Díaz, J.	

Wednesday, November 30	Mid Conference Excursion	8:00-15:00
15:00-16:00 Lunch at “Casa Club del Académico”, included in the registration fee.		

Thursday, December 1		Session 8: Micro-paleopedology (I)	
9:00-9:30	Quaternary loess-paleosol sequences in East and Central Asia in comparison with Central Europe – micromorphological and paleoclimatological conclusions.	Arnt Bronger, L. Smolikova	
9:30-9:50	Micromorphology of the Homo-bearing pedostratigraphic succession of Aalat, Eritrea: Soil formation processes and Pleistocene paleoclimatic changes	Scarciglia F., Ghinassi M., Carnevale G., Delfino M., Oms O., Papini M., Pavia M., Sani F., Rook L.	
9:50-10:10	Lateglacial to Holocene Pedogenesis and formation of colluvial deposits in Central Europe (Gambach, Germany)	Peter Kühn, Eva Lehndorff, Markus Fuchs	
10:10-10:30	From micromorphology to paleoenvironment - polygenetic loess palaeosols in the Krems region, Lower Austria	Tobias Sprafke, Birgit Terhorst	
10:30-10:50	Periods of extreme pedogenesis recorded in micro features in soils on Moscow (Saalian) glacial till	Alexander Makeev, Pavel Kust, Marina Lebedeva	
10:50-11:10	Coffee Break		
11:10-11:30	Micromorphological record of pedogenesis and landscape evolution in the Late Quaternary pedosediments within the the Upper Volga basin	A.V. Rusakov and S.N. Sedov	
11:30-11:50	Hidden Soils of the Yalahau Wetlands	Daniel Leonard, Elizabeth Solleiro-Rebolledo , Jaime Diaz, Scott Fedick, H. Cabadas	
11:50-12:10	Diagnostic tool-kit of natural and human firing records : a pilote study of Menez Dregan (Brittany) and Boxgrove (West Sussex) Middle Pleistocene pedo-sedimentary sequences	Marie-Agnès Courty, Y. Chantreau Yoann, R. Macphail	
12:10-12:30	Micromorphological studies of paleosols associated with remains of Pleistocene megafauna in Mexico.	Tamara Cruz-y-Cruz, Sergey Sedov, Joaquín Arroyo-Cabral, Irán Irais Rivera-González, Guadalupe Sánchez-Miranda y Alexandra Golyeva	
12:30-13:30	Poster Session		
13:30-14:30	Lunch		
Session 8: Micro-paleopedology (II)			
14:30-14:50	Paleohydrologic implications of micromorphic features of Late Pleistocene polygenetic soils of Fusagasuga fan (Colombia).	Jorge Sanchez-Espinosa; Juan Carlos Loaiza; Yolanda Rubiano-Sanabria; Rosa M. Poch	
14:50-15:10	Pleistocene to Holocene environmental changes in the central Mediterranean: a micromorphological study of soils in the Piani d’Aspromonte mountain area, Calabria, southern Italy	Fabio Scarciglia, Rocco Dominici, Rosanna De Rosa	
15:10-15:30	Micromorphological characterization of Tertiary paleosols of Cameroon (Central Africa): an indicator of weathering degree	Jean Pierre Nguetnkam, Elizabeth Solleiro, Jaime Díaz, Paul Tematio, Alembert Alexandre Ganwa, Dieudonne Lucien Bitom	
15:30-15:50	Charcoal-cored concretions in paleosols of the last interglacial	Svetlana A. Sycheva, Elena V. Ponomarenko	
15:50-16:10	Coffee Break		

Session 9: Pedogenesis of anthropogenic soils and ecosystems

16:10-16:30	Technosol micropedology: how micrometric interface reveal pedogenetic processes in man-made soils	<u>Françoise Watteau</u> , Geoffroy Séré, Jean-Claude Begin, Hermine Huot, Frédéric Rees, Christophe Schwartz, Jean Louis Morel
16:30-16:50	Micromorphology of Technosols developed from ash derived after bituminous coal and lignite combustion: examples from Poland	<u>Lukasz Uzarowicz</u> , Zbigniew Zagórski, Arkadiusz Gasinski, Jerzy Trzcinski
16:50-17:10	Micromorphological Features related to Soil-forming processes in Soil-like Technogenic Formations of Soccer fields in Russia	<u>I.V. Zamotaev</u> , V.P. Belobrov, M.P. Lebedeva
17:10-17:30	Differences of hard carbonate nodules formation in arable soils based on their micromorphology and radiocarbon dating (a case-study of agrochronosequences in the forest-steppe area of the Central Russian Upland)	<u>Olga Khokhlova</u> , Alexander Khokhov, Tatyana Myakshina
17:30-18:00	Closing ceremony	

Thursday, December 1	Poster Session
Micromorphological study of the alluvial paleosol sequence at the south-southwest of Buenavista del Cobre mine (Sonora, Mexico)	<u>Romero-Lazaro Eliuth</u> , Barceinas-Cruz Hermenegildo, Sedov, S.
Eocene Paleosols on King George Island, Maritime Antarctica: Macromorphology, Micromorphology and Mineralogy	<u>Diogo Noses Spinola</u> , Raquel de Castro Portes, Carlos Ernesto Gonçalves Reynaud Schaefer, Elizabeth Solleiro-Rebolledo, Theresa Pi Puig, Peter Kühn
Micromorphological analisys of quaternary paleosols in Santa Fe de Antioquia – Colombia.	María Isabel Toro Quijano; Marion Weber Scharff; <u>Juan C Loaiza</u>
Micro- and Macropalaeoindicators of environmental changes in soils of the Central Russian Upland: the case-study in the Belogorie Natural Reserve	<u>Chendev Yu.G.</u> ; Khokhlova O.A.; Ershova E.G.; Aleksandrovskiy A.L.; Ponomarenko E.V.
Micromorphological evidences of soil development degree in a paleosol-coastal dune system in Veracruz: a record of the last glacial-interglacial cycle	<u>Yusnier Díaz-Hernández</u> , Elizabeth Solleiro-Rebolledo, Sergey Sedov, Bernhard Lucke
Late Pleistocene paleosols of Middle Ob Basin (Western Siberia): from geoforms to microscope scape	<u>Vladimir Sheinkham</u>
Weathering and cristal neoformation within the bone microstructure of late Pleistocene Gomphotherium	<u>Luisa Mainou</u> , Luisa Straulino, Teresa Pi Puig
Archaeometric Characterization of historical ceramics from shipwrecks in Mexico's sea	Saúl Guerrero Rivero, <u>Flor Trejo Rivera</u> , Josué Torres Guzmán, Teresa Pi Puig, Sergey Sedov
Petrography of ceramics from Pol Box, Quintana Roo: an insight into the provenance of raw materials and production chain	<u>Pamela García Ramírez</u> , Serafín Sánchez Pérez
Morphometry and micromorphology of pedosediments in Estela of Cuicuilco, Mexico.	<u>Jaime Díaz-Ortega</u> , Elena Luciano-Suastegui, Elizabeth Solleiro-Rebolledo, Felipe Ramírez, Denia Sandoval
Natural and cultural reconstruction presented in the stratigraphic sequence through soil micromorphology of the ditch adjacent to the central altar at Plaza of the Pyramid of the Moon, Teotihuacan	<u>Priscila Gutiérrez</u> , Viridiana Guzmán, Esperanza Lugo; Verónica Ortega Cabrera
Identification of the origin of ceramic materials by the technique of petrography	<u>Irma Gabriela Vargas Martínez</u> ; Alicia Bonfil Olivera
A micromorphological insight to Aztec Great Temple's pedosediment: Soil formation, lacustrine deposition, and anthropogenic disturbance	<u>Elena Luciano Suastegui</u> , Jaime Díaz Ortega, Sergey Sedov, Elizabeth Solleiro Rebolledo, Julia Pérez Pérez, Leonardo López Luján
Petrographic and micromorphological analysis of ceramic samples Tlailotlacan (Oaxacan Neighbourhood Project and Project Building 1)	<u>Irma Gabriela Vargas Martínez</u> , Elsa Díaz Ávila, Verónica Ortega Cabrera
Micromorphometric analysis of ancient Maya stuccoes: variability of composition in time and space	<u>Luisa Straulino</u>
Micromorphology of reworked volcanoclastic deposits from the Usumacinta River, Mexico: the source of temper in Maya ceramics.	<u>Berenice Solis</u> , Héctor V. Cabadas Báez, Elizabeth Solleiro, Daniel Leonard, Oleg Korneychick, Keiko Teranishi, Rodrigo Liendo
Interpretation of anthropogenic landscape transformation in the Viking town Hedeby based on micromorphological analysis	<u>Svetlana V. Khamnueva</u> , Hans-Rudolf Bork, Jann Wendt
Geoarcheology of Teúl Gonzalez Ortega site, Zacatecas: an approach to the genesis of its strata	<u>Thania Alejandra García Zeferino</u> , <u>Laura Solar Valverde</u> , <u>Serafín Sánchez Pérez</u>

