SSS – Soil System Sciences – Oral Sessions

Monday, 23 April	
MO1, 08:30–10:00	**CL1.15**, Temperature observations in the subsurface: contributions to climate sciences, soil sciences, permafrost, glaciology, hydrology, and heat flow studies (co-listed), **08:30–12:00** in **Room 13**
	ERE1.1, Energy, Resources & the Environment (co-listed), **08:30–12:00** in **Room 19**
	HS1.3, Metrics, measures and objective functions in Hydrology' (co-listed), **08:30–10:00** in **Room 39**
	NH7.3/AS4.3/BG2.25/ESSI1.8/NP4.6/SSS5.24, Spatial and temporal patterns of wildfires: models, theory, and reality (co-organized), **08:30–17:00** in **Room D**
	SSS9.1, Radioactive Chemical Species in Soils : pollution and remediation, **08:30–15:00** in **Room 6**
	SSS11.1, Organic farming, soils and energy balance, **08:30–10:00** in **Room 3**
MO2, 10:30–12:00	**CL1.15**, Temperature observations in the subsurface: contributions to climate sciences, soil sciences, permafrost, glaciology, hydrology, and heat flow studies (co-listed), **08:30–12:00** in **Room 13**
	ERE1.1, Energy, Resources & the Environment (co-listed), **08:30–12:00** in **Room 19**
	NH7.3/AS4.3/BG2.25/ESSI1.8/NP4.6/SSS5.24, Spatial and temporal patterns of wildfires: models, theory, and reality (co-organized), **08:30–17:00** in **Room D**
	SSS2.1, Nanosized iron oxides in soils: agronomic, environmental and palaeoenvironmental significance (including Philippe Duchaufour Medal Lecture), **10:30–12:00** in **Room 3**
	SSS9.1, Radioactive Chemical Species in Soils : pollution and remediation, **08:30–15:00** in **Room 6**
MO3, 13:30–15:00	**PSD4.9**, SSS9.2 - Soil de-pollution and changing organic management systems, **13:30–14:15** in **Room 40**
	PSD19.13, NH7.3/AS4.3/BG2.25/ESSI1.8/NP4.6/SSS5.24 - Spatial and temporal patterns of wildfires: models, theory, and reality, **14:30–15:15** in **Room 37**
	SSS1.4, Urban soils and the urbanization impacts, **13:30–15:00** in **Room 22**
	SSS3.4/BG2.26/OS3.5, Stabilization of organic matter in soils, sediments and marine dissolved organic matter (co-organized), **13:30–15:00** in **Room 3**
	SSS9.1, Radioactive Chemical Species in Soils : pollution and remediation, **08:30–15:00** in **Room 6**
MO4, 15:30–17:00	**NH7.3/AS4.3/BG2.25/ESSI1.8/NP4.6/SSS5.24**, Spatial and temporal patterns of wildfires: models, theory, and reality (co-organized), **08:30–17:00** in **Room D**
	SSS5.20, Understanding Fire Phenomena in the Earth System Using Interdisciplinary Approaches, **15:30–17:00** in **Room 22**
	SSS6.2, Eco-engineering mitigations against natural hazards: Biological and Geophysical contributions to sustainable soil bioengineering in a changing world, **15:30–17:00** in **Room 3**

	SSS10.2, Soils as record of the past, **15:30–17:00** in **Room 6**
Tuesday, 24 April	
TU1, 08:30–10:00	**HS9.3/SSS5.23**, Effects of forest cover loss and land use change on erosion, sediment dynamics and ecosystem health (co-organized), **08:30–10:00** in **Room 39**
	SSS5.7, Temporal dynamics and effects of changes in land use on soil properties and processes, **08:30–15:00** in **Room 6**
	SSS5.10, Dynamics of soil surface characteristics (including physical and biological soil crusts): consequences on soil functioning and role of climate and land use change, **08:30–10:00** in **Room 22**
	SSS7.6, Movement and Fate of eroded soil organic matter in terrestrial ecosystems, **08:30–10:00** in **Room 3**
TU2, 10:30–12:00	**EMRP1.4**, Soil, sediment and dust magnetism - magnetic parameters in environmental studies (co-listed), **10:30–12:15** in **Room 34**
	SSS5.7, Temporal dynamics and effects of changes in land use on soil properties and processes, **08:30–15:00** in **Room 6**
	SSS5.8, Models and scaling: Assessing impact of climate change and land management on erosion and sediment dynamics, **10:30–15:00** in **Room 22**
	SSS7.5, Biochar for soil remediation and global warming mitigation, **10:30–17:00** in **Room 3**
TU3, 13:30–15:00	**PSD4.8**, SSS5.10 - Dynamics of soil surface characteristics (including physical and biological soil crusts): consequences on soil functioning and role of climate and land use change, **13:30–14:15** in **Room 35**
	SSS5.7, Temporal dynamics and effects of changes in land use on soil properties and processes, **08:30–15:00** in **Room 6**
	SSS5.8, Models and scaling: Assessing impact of climate change and land management on erosion and sediment dynamics, **10:30–15:00** in **Room 22**
	SSS7.5, Biochar for soil remediation and global warming mitigation, **10:30–17:00** in **Room 3**
TU4, 15:30–17:00	**PSD4.10**, SSS7.6 - Movement and Fate of eroded soil organic matter in terrestrial ecosystems, **15:30–16:15** in **Room 37**
	SSS1.2, Soil Science: Historical and Societal Issues, **15:30–17:00** in **Room 6**
	SSS5.4, Assessment and modeling of concentrated flow erosion, **15:30–17:00** in **Room 22**
	SSS7.5, Biochar for soil remediation and global warming mitigation, **10:30–17:00** in **Room 3**
TU6, 19:00–20:00	**TM2**, Soil conservation policies and strategies in Europe (co-listed), **19:00–20:00** in **Room 4**
Wednesday, 25 April	
WE1, 08:30–10:00	**GM4.2**, Organic matter export across landscapes: Understanding the rates and controls (co-listed), **08:30–10:00** in **Room 21**
	SSS1.1, Milestones in Soil Science Research, **08:30–15:15** in **Room 6**
	SSS7.3, Where does all the Pyrogenic Organic Matter go? Its Fate in Soils, Water and Sediments, **08:30–12:00** in **Room 3**
	SSS11.8, Cotton production practices impacts soil quality, **08:30–10:00** in **Room 22**

WE2, 10:30–12:00	**GM4.3**, Sediment and carbon fluxes under human impact and climate changes (co-listed), **10:30–12:00** in **Room 21**
	PSD4.11, SSS11.8 - Cotton production practices impacts soil quality, **10:30–11:15** in **Room 37**
	SSS1.1, Milestones in Soil Science Research, **08:30–15:15** in **Room 6**
	SSS5.15, Cutting across the soil-water field: A way to make new flowers blooming or the risk of sitting on the fence?, **10:30–12:00** in **Room 22**
	SSS7.3, Where does all the Pyrogenic Organic Matter go? Its Fate in Soils, Water and Sediments, **08:30–12:00** in **Room 3**
WE3, 13:30–15:00	**HS6.2**, Remote sensing of soil moisture (co-listed), **13:30–17:00** in **Room 36**
	PSD4.13, SSS7.3 - Where does all the Pyrogenic Organic Matter go? Its Fate in Soils, Water and Sediments, **14:30–15:15** in **Room 35**
	SSS1.1, Milestones in Soil Science Research, **08:30–15:15** in **Room 6**
	SSS3.6/BG2.24, Land use and land management impacts on soil organic carbon (SOC) dynamics: from the long term experiment to the national inventory (co-organized), **13:30–17:00** in **Room 3**
	SSS11.3, Soil and irrigation sustainability practices, **13:30–17:00** in **Room 22**
WE4, 15:30–17:00	**HS6.2**, Remote sensing of soil moisture (co-listed), **13:30–17:00** in **Room 36**
	SSS2.3, Weathering and bioweathering: measurement techniques and implications in soil formation, **15:30–17:00** in **Room 6**
	SSS3.6/BG2.24, Land use and land management impacts on soil organic carbon (SOC) dynamics: from the long term experiment to the national inventory (co-organized), **13:30–17:00** in **Room 3**
	SSS11.3, Soil and irrigation sustainability practices, **13:30–17:00** in **Room 22**
WE6, 19:00–20:00	**PSD4.14**, SSS11.3 - Soil and irrigation sustainability practices, **19:00–19:45** in **Room 35**

Thursday, 26 April

TH1, 08:30–10:00	**GM6.2/HS9.6/SSS5.21**, Connectivity in water and sediment dynamics: how do we move forwards? (co-organized), **08:30–12:00** in **Room 21**
	HS6.2, Remote sensing of soil moisture (co-listed), **13:30–17:00** in **Room 36**
	NP3.4/BG2.23/SSS1.7, Scaling, Nonlinearity, and Complexity in soils (co-organized), **08:30–12:15** in **Room 18**
	SSS6.10, Combat desertification and soil degradation in arid and humid environments and assess impacts on ecosystem services – approaches and solutions., **08:30–15:00** in **Room 6**
	SSS13.3, Modeling the experiment, experimenting the models - combining rain and wind to soil erosion, **08:30–12:00** in **Room 3**
TH2, 10:30–12:00	**GM6.2/HS9.6/SSS5.21**, Connectivity in water and sediment dynamics: how do we move forwards? (co-organized), **08:30–12:00** in **Room 21**
	NP3.4/BG2.23/SSS1.7, Scaling, Nonlinearity, and Complexity in soils (co-organized), **08:30–12:15** in **Room 18**
	SSS6.10, Combat desertification and soil degradation in arid and humid environments and assess impacts on ecosystem services – approaches and solutions., **08:30–15:00** in **Room 6**
	SSS13.3, Modeling the experiment, experimenting the models - combining rain and wind to soil erosion, **08:30–12:00** in **Room 3**

TH3, 13:30–15:00	**ERE5.3/GMPV6.7/HS8.2.8/SSS5.22**, Coupled Physical and Chemical Transformations Affecting the Performance of GeoSystems (co-organized), **13:30–17:00** in **Room 19**
	HS8.3.1, Monitoring and modelling transfer processes in the soil-plant-atmosphere continuum across scales (co-listed), **13:30–17:00** in **Room 39**
	SSS6.10, Combat desertification and soil degradation in arid and humid environments and assess impacts on ecosystem services – approaches and solutions., **08:30–15:00** in **Room 6**
	SSS8.2, Soil management as a determinant of microbial diversity and function, **13:30–15:00** in **Room 3**
TH4, 15:30–17:00	**ERE5.3/GMPV6.7/HS8.2.8/SSS5.22**, Coupled Physical and Chemical Transformations Affecting the Performance of GeoSystems (co-organized), **13:30–17:00** in **Room 19**
	GM2.3, Geomorphological maps - indispensable tool in geomorphology (co-listed), **15:30–17:00** in **Room 2**
	HS8.3.1, Monitoring and modelling transfer processes in the soil-plant-atmosphere continuum across scales (co-listed), **13:30–17:00** in **Room 39**
	SSS6.9, Soil degradation and theoretical aspects of desertification in arid and semi-arid environments. Degradation versus self-organization, **15:30–17:00** in **Room 6**
	SSS12.3/EOS11, Geodiversity and geoheritage in university education and research (co-organized), **15:30–16:45** in **Room 3**
Friday, 27 April	
FR1, 08:30–10:00	**GM2.1**, High definition topography - data acquisition, modelling, interpretation (co-listed), **08:30–12:00** in **Room 22**
	HS8.3.4, The role of interfaces in flow and transport in porous media (co-listed), **08:30–10:00** in **Room 39**
	IG1/GMPV2.3/HS2.22/SSP5.1/SSS13.5/TS1.8, Stable isotopes in geosciences - open session, including blocks of special attention (co-organized), **08:30–12:00** in **Room 42**
	SSS4.1, Digital soil mapping: novel approaches and sensing techniques to the prediction of key soil properties, **08:30–12:00** in **Room 6**
	SSS11.7, “Dynamic Landscapes”: Causality, Interaction and Long Term Modelling of Soil Surface Processes, **08:30–12:00** in **Room 3**
FR2, 10:30–12:00	**GM2.1**, High definition topography - data acquisition, modelling, interpretation (co-listed), **08:30–12:00** in **Room 22**
	HS8.3.3, Trace gases emissions from soils: Sources, mechanisms and process rates (co-listed), **10:30–12:00** in **Room 39**
	IG1/GMPV2.3/HS2.22/SSP5.1/SSS13.5/TS1.8, Stable isotopes in geosciences - open session, including blocks of special attention (co-organized), **08:30–12:00** in **Room 42**
	PSD4.10, SSS12.1 - Teaching Soil Science or how to teach that dirt is fascinating, **10:30–11:15** in **Room 35**
	SSS4.1, Digital soil mapping: novel approaches and sensing techniques to the prediction of key soil properties, **08:30–12:00** in **Room 6**
	SSS11.7, “Dynamic Landscapes”: Causality, Interaction and Long Term Modelling of Soil Surface Processes, **08:30–12:00** in **Room 3**
FRL, 12:15–13:15	**PSD4.10**, SSS4.1 - Digital soil mapping: novel approaches and sensing techniques to the prediction of key soil properties, **12:15–13:00** in **Room 37**
FR3, 13:30–15:00	**GM2.2**, Digital Landscapes: Quantitative Interrogation and Use to Examine Geomorphic Processes (co-listed), **13:30–17:00** in **Room 22**
	SSS12.1, Teaching Soil Science or how to teach that dirt is fascinating, **13:30–15:00** in **Room 3**

	SSS13.2, Evolution of soil properties in space and time. Soil information for environmental assessment and decision making, **13:30–15:00** in **Room 6**
FR4, 15:30–17:00	**GM2.2**, Digital Landscapes: Quantitative Interrogation and Use to Examine Geomorphic Processes (co-listed), **13:30–17:00** in **Room 22**
	SSS7.7, Molecular and isotopic techniques in terrestrial ecosystem studies, **15:30–17:00** in **Room 6**
	SSS8.1, Ecology and Erosion, **15:30–17:00** in **Room 3**

SSS – Soil System Sciences – Poster Sessions

Monday, 23 April	
MO3, 13:30–15:00	**PSD4.9**, SSS9.2 - Soil de-pollution and changing organic management systems, **13:30–14:15** in **Room 40**
	PSD19.13, NH7.3/AS4.3/BG2.25/ESSI1.8/NP4.6/SSS5.24 - Spatial and temporal patterns of wildfires: models, theory, and reality, **14:30–15:15** in **Room 37**
MO4, 15:30–17:00	**CL1.15**, Temperature observations in the subsurface: contributions to climate sciences, soil sciences, permafrost, glaciology, hydrology, and heat flow studies (co-listed), in **Hall Z**, **Z67–Z84**
MO5, 17:30–19:00	**BG4.1**, How interactions of recalcitrant and labile organic matter may drive carbon and nutrients balance in terrestrial and aquatic ecosystems (co-listed), in **Poster Area BG**, **BG64–BG69**
	BG4.2, Glacial retreat: implications for microbial ecology and biogeochemistry (co-listed), in **Poster Area BG**, **BG70–BG77**
	ERE1.1, Energy, Resources & the Environment (co-listed), in **Hall XL**, **XL1–XL35** | Related: PSD6.12, see MO3
	HS1.3, Metrics, measures and objective functions in Hydrology' (co-listed), in **Hall A**, **A61–A74**
	NH7.3/AS4.3/BG2.25/ESSI1.8/NP4.6/SSS5.24, Spatial and temporal patterns of wildfires: models, theory, and reality (co-organized), in **Hall X/Y**, **XY281–XY309** | Related: PSD19.13, see MO3
	SSS1.4, Urban soils and the urbanization impacts, in **Hall X/Y**, **XY535–XY552**
	SSS2.1, Nanosized iron oxides in soils: agronomic, environmental and palaeoenvironmental significance (including Philippe Duchaufour Medal Lecture), in **Hall X/Y**, **XY553–XY564**
	SSS3.4/BG2.26/OS3.5, Stabilization of organic matter in soils, sediments and marine dissolved organic matter (co-organized), in **Hall X/Y**, **XY565–XY582**
	SSS5.20, Understanding Fire Phenomena in the Earth System Using Interdisciplinary Approaches, in **Hall X/Y**, **XY583–XY595**
	SSS6.2, Eco-engineering mitigations against natural hazards: Biological and Geophysical contributions to sustainable soil bioengineering in a changing world, in **Hall X/Y**, **XY596–XY608**
	SSS9.1, Radioactive Chemical Species in Soils : pollution and remediation, in **Hall X/Y**, **XY609–XY631**
	SSS9.2, Soil de-pollution and changing organic management systems, in **Hall X/Y**, **XY632–XY641** | Related: PSD4.9, see MO3
	SSS10.2, Soils as record of the past, in **Hall X/Y**, **XY642–XY658**
	SSS11.1, Organic farming, soils and energy balance, in **Hall X/Y**, **XY659–XY672**
Tuesday, 24 April	
TU3, 13:30–15:00	**EMRP1.4**, Soil, sediment and dust magnetism - magnetic parameters in environmental studies (co-listed), in **Hall A**, **A1–A12**
	PSD4.8, SSS5.10 - Dynamics of soil surface characteristics (including physical and biological soil crusts): consequences on soil functioning and role of climate and land use change, **13:30–14:15** in **Room 35**

TU4, 15:30–17:00	**PSD4.10**, SSS7.6 - Movement and Fate of eroded soil organic matter in terrestrial ecosystems, **15:30–16:15** in **Room 37**
TU5, 17:30–19:00	**HS9.3/SSS5.23**, Effects of forest cover loss and land use change on erosion, sediment dynamics and ecosystem health (co-organized), in **Hall A**, **A376–A387**
	SSS1.2, Soil Science: Historical and Societal Issues, in **Hall X/Y**, **XY523–XY534**
	SSS5.4, Assessment and modeling of concentrated flow erosion, in **Hall X/Y**, **XY535–XY549**
	SSS5.7, Temporal dynamics and effects of changes in land use on soil properties and processes, in **Hall X/Y**, **XY550–XY581**
	SSS5.8, Models and scaling: Assessing impact of climate change and land management on erosion and sediment dynamics, in **Hall X/Y**, **XY582–XY596**
	SSS5.10, Dynamics of soil surface characteristics (including physical and biological soil crusts): consequences on soil functioning and role of climate and land use change, in **Hall X/Y**, **XY597–XY612** | Related: PSD4.8, see TU3
	SSS7.5, Biochar for soil remediation and global warming mitigation, in **Hall X/Y**, **XY613–XY639**
	SSS7.6, Movement and Fate of eroded soil organic matter in terrestrial ecosystems, in **Hall X/Y**, **XY640–XY655** | Related: PSD4.10, see TU4

Wednesday, 25 April

WE2, 10:30–12:00	**PSD4.11**, SSS11.8 - Cotton production practices impacts soil quality, **10:30–11:15** in **Room 37**
WE3, 13:30–15:00	**PSD4.13**, SSS7.3 - Where does all the Pyrogenic Organic Matter go? Its Fate in Soils, Water and Sediments, **14:30–15:15** in **Room 35**
WE5, 17:30–19:00	**GM4.2**, Organic matter export across landscapes: Understanding the rates and controls (co-listed), in **Hall XL**, **XL128–XL142**
	HS6.2, Remote sensing of soil moisture (co-listed), in **Hall A**, **A220–A240**
	HS10.5/BG2.21, Geological and hydro-biogeochemical feedbacks shaping habitats and biodiversity in terrestrial systems (co-listed), in **Hall A**, **A356–A368**
	NP3.4/BG2.23/SSS1.7, Scaling, Nonlinearity, and Complexity in soils (co-organized), in **Hall X/Y**, **XY426–XY446**
	SSS1.1, Milestones in Soil Science Research, in **Hall X/Y**, **XY531–XY560**
	SSS2.3, Weathering and bioweathering: measurement techniques and implications in soil formation, in **Hall X/Y**, **XY561–XY577**
	SSS3.6/BG2.24, Land use and land management impacts on soil organic carbon (SOC) dynamics: from the long term experiment to the national inventory (co-organized), in **Hall X/Y**, **XY578–XY603**
	SSS5.15, Cutting across the soil-water field: A way to make new flowers blooming or the risk of sitting on the fence?, in **Hall X/Y**, **XY604–XY618**
	SSS7.3, Where does all the Pyrogenic Organic Matter go? Its Fate in Soils, Water and Sediments, in **Hall X/Y**, **XY619–XY638** | Related: PSD4.13, see WE3
	SSS11.3, Soil and irrigation sustainability practices, in **Hall X/Y**, **XY639–XY662** | Related: PSD4.14, see WE6
	SSS11.8, Cotton production practices impacts soil quality, in **Hall X/Y**, **XY663–XY673** | Related: PSD4.11, see WE2
WE6, 19:00–20:00	**PSD4.14**, SSS11.3 - Soil and irrigation sustainability practices, **19:00–19:45** in **Room 35**

Thursday, 26 April	
TH5, 17:30–19:00	**ERE5.3/GMPV6.7/HS8.2.8/SSS5.22**, Coupled Physical and Chemical Transformations Affecting the Performance of GeoSystems (co-organized), in **Hall XL**, **XL32–XL57**
	GM2.1, High definition topography - data acquisition, modelling, interpretation (co-listed), in **Hall XL**, **XL206–XL233**
	GM2.2, Digital Landscapes: Quantitative Interrogation and Use to Examine Geomorphic Processes (co-listed), in **Hall XL**, **XL234–XL259** | Related: PSD12.7, see TH3 | Related: PSD12.8, see THL
	GM2.3, Geomorphological maps - indispensable tool in geomorphology (co-listed), in **Hall XL**, **XL260–XL271**
	HS8.3.1, Monitoring and modelling transfer processes in the soil-plant-atmosphere continuum across scales (co-listed), in **Hall A**, **A185–A199**
	IG1/GMPV2.3/HS2.22/SSP5.1/SSS13.5/TS1.8, Stable isotopes in geosciences - open session, including blocks of special attention (co-organized), in **Hall A**, **A234–A252**
	SSS6.9, Soil degradation and theoretical aspects of desertification in arid and semi-arid environments. Degradation versus self-organization, in **Hall Z**, **Z61–Z78**
	SSS6.10, Combat desertification and soil degradation in arid and humid environments and assess impacts on ecosystem services – approaches and solutions., in **Hall Z**, **Z79–Z109**
	SSS8.2, Soil management as a determinant of microbial diversity and function, in **Hall Z**, **Z110–Z122**
	SSS11.2, Soil Management for Sustainable Agro food Systems, in **Hall Z**, **Z123–Z135**
	SSS12.3/EOS11, Geodiversity and geoheritage in university education and research (co-organized), in **Hall Z**, **Z136–Z156**
	SSS13.3, Modeling the experiment, experimenting the models - combining rain and wind to soil erosion, in **Hall Z**, **Z157–Z184**
Friday, 27 April	
FR2, 10:30–12:00	**GM6.2/HS9.6/SSS5.21**, Connectivity in water and sediment dynamics: how do we move forwards? (co-organized), in **Hall XL**, **XL99–XL117**
	PSD4.10, SSS12.1 - Teaching Soil Science or how to teach that dirt is fascinating, **10:30–11:15** in **Room 35**
	SSS13.2, Evolution of soil properties in space and time. Soil information for environmental assessment and decision making, in **Hall X/Y**, **XY621–XY638**
FRL, 12:15–13:15	**PSD4.10**, SSS4.1 - Digital soil mapping: novel approaches and sensing techniques to the prediction of key soil properties, **12:15–13:00** in **Room 37**
FR3, 13:30–15:00	**HS8.3.3**, Trace gases emissions from soils: Sources, mechanisms and process rates (co-listed), in **Hall A**, **A227–A241**
	HS8.3.4, The role of interfaces in flow and transport in porous media (co-listed), in **Hall A**, **A242–A256**
	SSS4.1, Digital soil mapping: novel approaches and sensing techniques to the prediction of key soil properties, in **Hall X/Y**, **XY531–XY555** | Related: PSD4.10, see FRL
	SSS7.7, Molecular and isotopic techniques in terrestrial ecosystem studies, in **Hall X/Y**, **XY556–XY571**
	SSS8.1, Ecology and Erosion, in **Hall X/Y**, **XY572–XY586**

	SSS11.7, “Dynamic Landscapes”: Causality, Interaction and Long Term Modelling of Soil Surface Processes, in **Hall X/Y**, **XY587–XY606**
FR4, 15:30–17:00	**SSS12.1**, Teaching Soil Science or how to teach that dirt is fascinating, in **Hall X/Y**, **XY607–XY620** | Related: PSD4.10, see FR2