

Final programme Wageningen Soil Conference 2019, Wageningen Campus

DAY 1		DAY 2			DAY 3			DAY 4			
Mon 26th August	Tuesday 27th August	Wednesday 28th August			Thursday 29th August			Friday 30th August			
	7:30 Registration, Orion entrance		8:00 Registration & poster placement, Orion entrance			8:00 Registration & poster placement, Orion entrance			8:00 Registration, Orion entrance		
	8:20 Welcome by Rachel Creamer and Bram de Vos (WUR) <i>Orion, Waaierzaal auditorium</i> Soil functions for society Chair: Rachel Creamer (WUR) Soil Organic Matter: From changing form to changing function Johannes Lehmann (Cornell University)	8:00	8:30 <i>Orion, Waaierzaal auditorium</i> Innovative methods for measuring soil functions Chair: Boris Jansen (UvA) Build your own soil: Micro-structured Soil Chips allow to investigate soil functions at microbial scale Edith Hammer (Lund University)			8:30 <i>Orion, Waaierzaal auditorium</i> Modelling & mapping of soil functions across scales Chair: Gerard Heuvelink (WUR) Mapping microorganisms to understand the feedbacks between warming and soil carbon loss at a global scale Thomas Crowther (ETH Zurich)			8:30 <i>Orion, Waaierzaal auditorium</i> Can we understand synergies and trade-offs between soil functions? Chair: Jantieni Baartman (WUR) Soil functions and land management: potential synergies and tradeoffs at the tropical agricultural frontier (Brazil) Maria Victoria Ballester (Sao Paulo University)		
	9:15 oral 1	9:15	oral 1			oral 1			oral 1		
	9:30 oral 2	9:30	oral 2			oral 2			oral 2		
	9:45 oral 3	9:45	oral 3			oral 3			oral 3		
	10:00 4 poster pitches	10:00	4 poster pitches			4 poster pitches			oral 4		
[side event] SOIL HORIZONS: soil quality and soil functions workshop 10.00-16.00 Impulse, Speakers Corner	10:10 <i>coffee & poster placement, Orion, The Spot</i> Parallel sessions 1: room C1040 2: room C2035 3: room C2051	10:10	<i>coffee & poster placement, Orion, The Spot</i> Parallel sessions 1: room C1040 2: room C2035 3: room C2051			<i>coffee & poster placement, Orion, The Spot</i> Parallel sessions 1: room C1040 2: room C2035 3: room C2051			<i>coffee, Orion, The Spot</i> Parallel sessions 1: room C1040 2: room C2035 3: room C2051		
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	12:00 Poster session <i>Orion entrance</i> <i>lunch, Orion, The Spot (served 12.30)</i>	12:00	Poster session <i>Orion entrance</i> <i>lunch, Orion, The Spot (served 12.30)</i>			Poster session <i>Orion entrance</i> <i>lunch, Orion, The Spot (served 12.30)</i>			12:00 oral 6 oral 6 oral 6		
	12:15 Masterclasses M1 (C3015) M3 (P5009/10) M6 (bus) M2 (Lumen 1) M4 (P5050) M7 (C3034) M31 (C3016) M5 (P5034) M8 (bus) M9 (C3042) M10 (C3043)	12:15	Masterclasses M11 (bus) M15 (C3043) M17 (C3034) M12 (bus) M16 (P826/52) M18 (C3042) M13 (C3015:C3016:C3020) M19 (C3033) M21 (C3030) M20 (L. Soil Museum)			Masterclasses M22 (C3016) M25 (C3020) M28 (C3015) M23 (C3042) M26 (C3030) M29 (C3043) M24 (C3033) M27 (PC3031) M30 (C3034)			12:15 oral 7 oral 7 oral 7		
	13:30	13:30			13:30			13:00 CLOSURE WSC2019 <i>lunch, Orion, The Spot</i> [side event] SOPHIE workshop 13.00-15.30 Orion, C3033			
	Rising Soil Stars Training Session 16.00-19.00 Orion, C3030	Ice breaker registration 16.30 - 19.00 <i>Lumen, terrace and rooms 1&2</i>	16:30	16:30			16:30				
	17:00 Fish bowl "From the Ground Up" <i>Orion, The Spot</i> followed by networking time <i>Orion, The Spot</i>	17:00	17:00 Young scientists pitches "Rising Soil Stars" Orion, Waaierzaal auditorium followed by networking time <i>Orion, The Spot</i>			17:00 Meet the Experts <i>Lumen, terrace and rooms 1&2</i>					
	19:00	19:00	19:00			18:30 <i>cycling or bus transfer from Lumen entrance to De Blaauwe Kamer</i>					
						19:30 Conference dinner <i>De Blaauwe Kamer, Wageningen</i>					
						21:30 <i>cycling or bus transfer from De Blaauwe Kamer to Lumen entrance or Wageningen city centre</i>					

Tuesday 27th August

7:30	<i>registration and poster placement, Orion entrance</i>																								
8:20	OPENING WSC2019 - Welcome by Rachel Creamer and Bram de Vos (Wageningen University & Research)																								
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9:15	<p align="center">Global soil organic carbon scenarios for a 2° trajectory <i>Kristine Karstens (Potsdam Institute for Climate Impact Research)</i></p>																								
9:30	<p align="center">The Land Resource Circle <i>Linda Lilburne (Manaaki Whenua - Landcare Research)</i></p>																								
9:45	<p align="center">Demands on land: mapping competing societal expectations for the functionality of agricultural soils in Europe <i>Jan Staes (Antwerp University)</i></p>																								
10:00	<p align="center">Poster pitches</p> <p>SFS.0.1 - Acclimation of methane emissions from rice paddy fields to straw incorporation - <i>Weijian Zhang</i> SFS.0.2 - Quantification of the structure evolution in a garden soil over the course of two years - <i>John Koestel</i> SFS.0.3 - Can vegetated urban soils help to reduce run-off? Case study in Marseille, France - <i>Jesús Diaz-Sanz</i> SFS.0.4 - A balancing act: soil functions in different farming systems - <i>Carmen Vazquez</i></p>																								
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	<p align="center">Parallel sessions</p> <table border="1"> <thead> <tr> <th>Soil functions for society: policy support</th> <th>Soil functions for society: soil and land management</th> <th>Soil functions for society: agronomy and soil fertility</th> </tr> </thead> <tbody> <tr> <td>Chair: Katharina Helming <i>Orion, room C1040</i></td> <td>Chair: Marcus Schmidt <i>Orion, room C2035</i></td> <td>Chair: Francesca Bampa <i>Orion, room C2051</i></td> </tr> <tr> <td>10:40 Policy support for sustainable land management and poverty alleviation in tropical regions <i>Hedwig van Delden (Research Institute for Knowledge Systems)</i></td> <td>Matching supply and demand for sustainable land management with recommendations for the proposed post-2020 CAP <i>Lilian O'Sullivan (TEAGASC)</i></td> <td>Biochar for long-term food security in smallholder farms in Kenya <i>Thomas Kätterer (Swedish University of Agricultural Sciences)</i></td> </tr> <tr> <td>10:55 Soil ecosystem services, public goods and economic value in post-Brexit Wales <i>Bridget Emmett (Centre for Ecology and Hydrology)</i></td> <td>Soil research challenges in light of emerging agricultural soil management practices <i>Anja-K. 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	<p>SFS.1.6 – Organic beef and other ecosystem services produced at semi-natural pasture and forest mosaics – Annemieke Reurslag-Gärdenäs</p> <p>SFS.1.7 - Impact of Norway spruce (<i>Picea abies</i>) on soil properties in former agricultural lands after natural afforestation - Kristine Afanasjeva</p> <p>SFS.1.8 - Re-usable organic materials as long-term sources of soil organic matter - Collins Amoah-Antwi</p> <p>SFS.1.9 - A knowledge framework to structure the roadmap of EJP SOIL: defining research demands and barriers - Titia Mulder</p> <p>SFS.1.10 - Maintenance of small landscape elements in Flanders can contribute to soil quality - the wood chips story - Mia Tits</p> <p>SFS.1.11 - Carbon-aware growing media in the horticultural sector: turning a problem into an opportunity? - Karen Vancampenhout</p> <p>SFS.1.12 - Living Laboratories of Agriculture and Agri-Food Canada: A Collaborative Program - Stephen Crittenden</p> <p>SFS.1.13 - Monitoring the pollution effects from a gold tailing storage facility on adjacent land through Landscape Function Analysis - Angélique Daniell</p> <p>SFS.1.14 - Improved ecosystem accounting by incorporating soils for quantifying ecosystem services - Hannah Schutte</p> <p>SFS.1.15 - Understanding the role of public participation in science for protecting urban soils and green spaces and inspiring sustainable actions and behaviours - Nerea Ferrando</p> <p>SFS.1.16 - Analysis of the Brazilian public policies for Agroforestry management in sensitive and risk areas - Maria Aparecida Marques</p> <p>SFS.1.17 - Tracks in the landscape – creating awareness by the public of the changes in a landscape - Aukjen Nauta</p>	<p>SFS.2.6 - The effect of farm nutrient management practices on mineralisable nitrogen and enzymatic activity in grassland soils - Fiona Brennan</p> <p>SFS.2.7 - Soil organic carbon stability of urban soils under different hydrothermal conditions - Inna Brianskaia</p> <p>SFS.2.8 - Effects of wood derived soil amendments on functioning and presence of root and soil microbes - Karoliina Huusko</p> <p>SFS.2.9 - Silvopastoral systems improve soil chemical quality in northwestern Colombian Amazon - Adriana Marcela Silva Olaya</p> <p>SFS.2.10 - Application of magnesium sulfate reduces the release and mobility of phosphorus from soils to floodwater under prolonged flooding - Udaya Vitharana</p> <p>SFS.2.11 - Assessment of compost and biochar as amendments to remediate toxic multi-element contaminated soil - Srimathie Indraratne</p> <p>SFS.2.12 - Impact of post-fire management practices in soil functioning - Teresa Sauras-Yera</p> <p>SFS.2.13 - Soil quality response to erosion and vegetation restoration on the Loess Plateau: the key for soil conservation - Mingxiang Xu</p> <p>SFS.2.14 - Soil biodiversity characterization and its hydrodynamic connection in an active landslide complex - Fabio Gatti</p> <p>SFS.2.15 - Conservation management for sugarcane production influences yield and soil properties in northwestern Colombian Amazon region - Fausto Andrés Ortiz - Morea</p> <p>SFS.2.16 - Potential of organic amendments to enhance soil aggregate formation and carbon storage - Anna-Reetta Salonen</p> <p>SFS.2.17 - Evaluating different soil compaction measurement techniques: simplicity versus complexity - Tijn van Orsouw</p>	<p>SFS.3.6 - Long term effect of cropping sequence, tillage and nitrogen fertilization on micronutrients concentration of an Alfisol in the Nigerian savanna - Ado Yusuf</p> <p>SFS.3.7 - Change of soil organic matter in paddy soil and its response to fertilizer application from 1988—2017 in China - Dongchu Li</p> <p>SFS.3.8 - Regenerative agriculture - the soil is the base - Loekie Schreefel</p> <p>SFS.3.9 - Assessing the effects of conventional and organic rotations and fertilisation practices on soil carbon stocks and stabilisation - Caio Fernandes Zani</p> <p>SFS.3.10 - Decrease of soil fertility in Vojvodina (Northern Serbia) in the function of food production - Jovica Vasin</p> <p>SFS.3.11 - The effect of soil variability and nutrient management within the farm on soil fertility status - David Corbett</p> <p>SFS.3.12 - The role of fungal vs. bacterial communities in SOM dynamics during cropping season of maize grown for 17 years on C3 soil - Thomas Kätterer</p> <p>SFS.3.13 - Plastic mulch use in agriculture : accumulation of Low density polyethylene debris and pesticides residues and the effects on soil microbial communities - Nicolas Beriot</p> <p>SFS.3.14 - Influence of humic substances on the transformation and degradation of insecticides in rice fields of Bali island - Mikhail Gasanov</p> <p>SFS.3.15 - Effect on soil C mineralization and soil biological properties after addition of corn cob waste biochar into two contrasting soils in Sri Lanka - Dilani Chathurika Rathnayake Mudiyansele</p> <p>SFS.3.16 - Challenges and possible solutions for soil conserving application of organic fertilizer in spring with a special focus on economic aspects - Sandra Ledermueller</p> <p>SFS.3.17 - Can multifunctionality of soils be enhanced by improved agricultural management practices? - Taru Sandén</p> <p>SFS.3.18 - Process model based, joint spatial assessment of agricultural soils' filtering and provisioning function in Hungary - Gábor Szatmári</p>
12:00	<p>Poster session</p> <p>Orion entrance</p> <p>lunch, Orion, The Spot (served 12.30)</p>		
13:30	<p>Masterclasses</p>		
	<p>M1 - Applying a participatory approach in understanding soil functions (C3015)</p> <p>M2 - How Microplastics pollution in soil is perceived by the society (Lumen 1)</p> <p>M31 - Soil-related Sustainable Development Goals: Transitions are needed! (C3016)</p> <p>M9 - Qualitative multi-attribute decision modelling in soil science (C3042)</p>	<p>M3 - Soil structure and soil biodiversity (P5009 and P5010)</p> <p>M4 - Morphological characterization of arbuscular mycorrhizal fungi (P5050)</p> <p>M5 - Soil Biological Quality Index (QBS-ar), a different way to look at soil (P5034)</p> <p>M10 - Soil biodiversity assessments at a global scale (C3043)</p>	<p>M6 - Field description, classification and interpretation of the soil profile (bus)</p> <p>M7 - Bayesian networks and soil functions: integrating uncertainty and multi-functionality (C3034)</p> <p>M8 - Ensuring reliability and comparability of soil data (bus)</p>
16:30	<p>group photo followed by refreshments Orion, The Spot</p>		
17:00	<p>Fish bowl "From the Ground Up"</p> <p>Orion, The Spot</p>		
19:00	<p>followed by networking time Orion, The Spot</p>		

Wednesday 28th August

8:00	<i>registration and poster placement, Orion entrance</i>		
	Innovative methods for measuring soil functions <i>Orion, Waaienzaal auditorium</i> Chair: Boris Jansen (University of Amsterdam)		
8:30	KEYNOTE Build your own soil: micro-structured soil chips allow to investigate soil functions at microbial scale <i>Edith Hammer (Lund University)</i>		
9:15	SoilBio – a new tool for assessing soil physical condition from biological community structure <i>Kenneth Loades (The James Hutton Institute)</i>		
9:30	Soil microbial carbon pump: mechanism, application and appraisal <i>Chao Liang (Chinese Academy of Sciences)</i>		
9:45	Partitioning plant and soil carbon fluxes under field conditions <i>Chris McCloskey (Cranfield University & The James Hutton Institute)</i>		
10:00	Poster pitches IMM.0.1 - How do predators modulate the influence of microbes on soil aggregation? - <i>Amandine Erktan</i> IMM.0.2 - Usability of Ground Penetrating Radar with Complementary Sensors for 3D Mapping of Bulk Density in an Agricultural Field with Variable Subsoil Compaction - <i>Tijn van Orsouw</i> IMM.0.3 - Element mobilisation in weathering profiles as a process of soil formation - <i>Deepika Pandey</i> IMM.0.4 - N₂O emission as function of C amendment and soil N:P ratio: an incubation study - <i>Zhijie Li</i>		
10:10	<i>coffee & poster placement, Orion, The Spot</i>		
	Parallel sessions		
	Innovative measurement methods: soil biology Chair: Peter de Ruiter <i>Orion, room C1040</i>	Innovative measurement methods: sensor technology Chair: Dominique Arrouays <i>Orion, room C2035</i>	Innovative measurement methods: soil-plant interactions Chair: Cathelijne Stoof <i>Orion, room C2051</i>
10:40	Biofunctool®: a new set of indicator to assess the impact of land management on soil functioning <i>Alexis Thoumazeau (CIRAD)</i>	Construction of three-dimensional pore skeleton model based on soil CT images <i>Qiaoling Han (Beijing Forestry University)</i>	Simultaneous detection of soil water use and plant root activity <i>Kálmán Rajka (RISSAC CAR HAS)</i>
10:55	Utilizing archived soils to study long-term microbial community structural dynamics <i>Fang Wang (University of Chinese Academy of Sciences and Griffith University)</i>	Quantifying bioturbation in soils using glass beads and X-ray CT scanning. <i>Oscar Franken (Vrije Universiteit Amsterdam; University College Dublin)</i>	Using root traits to define the suitability of cover crops for providing multiple soil ecosystem services <i>Sarah De Baets (Cranfield University)</i>
11:10	Out with chemical recalcitrance? Insights from the study of the temperature sensitivity of SOM decomposition <i>Gabriel Moinet (Manaaki Whenua - Landcare Research)</i>	Will traditional hydro-physical measurements, X-ray tomography and geophysical imaging identify and quantify soil functional heterogeneity at the meter-scale? <i>Daniel Gimenez, & Attila Nemes (Rutgers University/NIBIO)</i>	Exploring soil macrofauna as an indicator of sugarcane straw removal effects on soil quality <i>Lauren Menandro (CTBE/CNPEM)</i>
11:25	Potential carbon stabilization by fungi in a human disturbance gradient of temperate grasslands <i>Elly Morriën (University of Amsterdam - IBED)</i>	From scan to scale: the journey of a soil sample using sensor technology <i>Christy van Beek (AgroCares)</i>	Sensor and satellite technologies as a basis to improve the performance of selected soil functions <i>Heide Spiegel (Austrian Agency for Health and Food Safety)</i>
11:40	Poster pitches	Poster pitches	Poster pitches
	IMM.1.1 - Sewage sludge disposal: an entry door for microplastics in soils - <i>Fabio Corradini</i>	IMM.2.1 - Salt tolerant characters of Bacillus arrayabhatai in reducing the salinity effect on paddy - <i>Rakiba Shultana</i>	IMM.3.1 - The Residual Effect of the Modified White CKD on Peas Plants Grown in Sandy Soil - <i>Mahmoud Morsy</i>
	IMM.1.2 - Electrical characterization of intact plant root systems: An innovative method for sensing soil environments - <i>Imre Cseresnyés</i>	IMM.2.2 - Phytomanagement of polluted sites for the recovery of soil health - <i>Lur Epelde</i>	IMM.3.2 - Mechanisms involved in N₂O formation in agricultural soils amended with biochars with contrasting properties - <i>María Blanca Pascual de Vega</i>
	IMM.1.3 - Study on Influence and Compensation Method of Soil Compactness on Soil Volumetric Water Content Measurement - <i>Yandong Zhao</i>	IMM.2.3 - Soil stoichiometry effect on microbial processes and its reflection in C and N isotopic composition - <i>Julian Cardenas</i>	IMM.3.3 - An overview of pedogenesis in Technosols in South Africa - <i>Angelique Daniell</i>
	IMM.1.4 - Soil spectroscopy for the Dutch Soil Information System - <i>S. de Jong</i>	IMM.2.4 - A slow path towards measuring root exudate effects on rhizosphere functioning and soil biogeochemical cycles - <i>Marie Zwetsloot</i>	IMM.3.4 - Interlinkages between soil and tree health in the urban environment: a Citizen Science EU research project - <i>Nerea Ferrando</i>
	IMM.1.5 - The influence of lime on the physical and chemical composition of heavy soils - <i>David Corbett</i>	IMM.2.5 - Functional genes as a predictor of soil functions - <i>Katja Kozjek</i>	IMM.3.5 - Soil bacterial community dynamics reflect changes in plant community and soil properties during the secondary succession of abandoned farmland in the Loess Plateau - <i>Chao Zhang</i>

	<p>IMM.1.6 - Organic Carbon and Total Nitrogen Stock in Humus Forms in Natural and Urban Forests Formed on Dry Mineral Soils in Latvia - <i>Imants Kukuļs</i></p> <p>IMM.1.7 - Field estimation of the effective aggregate's length by Disk Infiltrometer for dual permeability models Part I - <i>Carlos Alberto Faúndez Urbina</i></p> <p>IMM.1.8 - Using backscatter of Synthetic Aperture Radar (SAR) to characterize soil effects on crop productivity? - <i>Goetz Richter</i></p> <p>IMM.1.9 - Assessment of the surface-mat effect and the influence of grassland vegetation on shallow slope stability in mountain habitats - <i>Michael Löbmann</i></p> <p>IMM.1.10 - Exploring relationships between soil colour, water colour and soil properties for citizen science projects on soil carbon - <i>Joanna Clark</i></p> <p>IMM.1.11 - Chlorophyll and fluorescence portable devices to estimate nitrogen nutrition in soybean - <i>Carlos Rodrigues</i></p> <p>IMM.1.12 - Progress on Standardisation, harmonisation and innovation of soil hydro-physics properties through international exchange: the SOPHIE initiative - <i>Martine van der Ploeg</i></p> <p>IMM.1.13 - Soils phosphorus fractions under different application methods and phosphate sources - <i>Luiza Mendes</i></p> <p>IMM.1.14 - Uncertainty of water flow and storage measurements with fiberglass wicks: Measurement uncertainty/efficiency by analyzing variability in flow and storage in fiberglass wicks - <i>Sidra Bibi</i></p> <p>IMM.1.15 - Optically stimulated luminescence dating in soil science - <i>Jakob Wallinga</i></p> <p>IMM.1.16 - Using biochar and biochar-compost mixtures to improve the quality of an agricultural sandy soil - <i>Teresa Sauras-Yera</i></p>	<p>IMM.2.6 - The effect of bio-preparations on soil respiration - <i>Sidona Buragienė</i></p> <p>IMM.2.7 - Resilience of soil fungal communities to rainfall scenarios - <i>Laura Martínez-García</i></p> <p>IMM.2.8 - Understanding the soil microorganisms by means of long-term agricultural field trials - <i>Lisa Joos</i></p> <p>IMM.2.9 - Beneficial soil bioindicators and technical itineraries on walnut trees mycorrhization under agroforestry and agricultural systems - <i>Babacar Thiouye</i></p> <p>IMM.2.10 - Vertical distribution of microannelids in relation to tillage and vertical gradients of soil organic matter in some European field soils - <i>Anneke Beylich</i></p> <p>IMM.2.11 - pH and P effects on denitrifying microbial communities in grassland soil - <i>Meritxell Grau Butinyac</i></p> <p>IMM.2.12 - The influence of old mining wastes to the biological and chemical soil properties - <i>Lenka Demkova</i></p> <p>IMM.2.13 - Experimental warming and microplastic fibers jointly influence soil aggregation by saprobic fungi - <i>Yun Liang</i></p> <p>IMM.2.14 - Composition and functional shifts in microbial communities due to different crop residues qualities - <i>Cyrine Rezgui</i></p> <p>IMM.2.15 - Soil nematodes as soil bioindicators: analysis comparison and applicability in an arable system - <i>Ana Natalio</i></p> <p>IMM.2.16 - Citizen Science delivering insights to urban soil health - <i>Daphne Parramon-Dhawan</i></p>	<p>IMM.3.6 - Is phosphate fertiliser derived soil fluorine (F) harmful to root nodulation in white clover? - <i>Thangavelautham Geretharan</i></p> <p>IMM.3.7 - Interaction between soil chemical, physical and biological properties in sustainable faba bean cultivation - <i>Rasa Kimbirauskienė</i></p> <p>IMM.3.8 - Physiological response of wheat cultivars to pea intercropping - <i>Tünde Takács</i></p> <p>IMM.3.9 - Effect of gypsum and biochar amendment on P fractions in soils under simulated spring snowmelt and summer flooding conditions - <i>Darshani Kumaragamage</i></p> <p>IMM.3.10 - Linking up diagnostic features to assessing soil nutrient dynamics: Case of Ethiopian soils - <i>Gidena Reda</i></p> <p>IMM.3.11 - Evaluation of the phosphorus availability in soil using slow release fertilizer - <i>Geovani Caetano</i></p> <p>IMM.3.12 - How can a soil improving cropping system reduce compaction? - <i>Felicity Crotty</i></p> <p>IMM.3.13 - The role of plants on SOM decomposition, microbial biomarkers and quality and quantity of DOC - <i>Jussi Heinonsalo</i></p> <p>IMM.3.14 - Soil chemical characteristics limiting soybean yield under foliar nutrition - <i>Tatiana Michlovská Rodrigues</i></p> <p>IMM.3.15 - Effects of compost application on soil macrofauna and soil functions in oil palm plantation – Biofunctool® approach - <i>Raphael Marichal</i></p> <p>IMM.3.16 - Reuse potential of phosphorus-saturated alum sludge to agriculture as evaluated by a germination test - <i>Valeria Arenas-Montaño</i></p> <p>IMM.3.17 - Soil lacquer peel DIY: simply capturing beauty - <i>Cathelijne Stoof</i></p>
12:00	<p>Poster session Orion entrance Lunch, Orion, The Spot (served 12.30)</p>		
13:30	<p>Masterclasses</p>		
	<p>M11 - Integrated Soil Management on Sandy Soils for Sustainable Agriculture (bus)</p> <p>M12 - Soil Management for Regenerative Agriculture (bus)</p> <p>M13 - "Goodbye Soil Framework Directive, Hello new CAP (an escape room experience)" (C3015:C3016:C3020)</p> <p>M21 - Sustainability assessment of soil management: hands-on training (C3030)</p>	<p>M15 - Soil fertilization with micronutrients and inspiring practical tests with chelates to prove their function (C3043)</p> <p>M16 - An introduction to identifying the feeding groups of nematodes (Forum P826 and P852)</p> <p>M20 - Understanding the functional capacity of our soils – case studies from around the world (L. Soil Museum)</p>	<p>M17 - Knowledge discovery and data mining in soil science (C3034)</p> <p>M18 - Mapping rootable depth and plant-available soil water & nutrients to evaluate soil functioning in terms of agricultural productivity (C3042)</p> <p>M19 - Proximal soil sensing for soil data acquisition (C3033)</p>
16:30	<p><i>refreshments Orion, The Spot</i></p>		
17:00	<p>Young scientists pitches "Rising Soil Stars" Orion, Waaienzaal auditorium</p>		
19:00	<p>followed by networking time Orion, The Spot</p>		

Thursday 29th August

8:00	<p align="center"><i>registration and poster placement, Orion entrance</i></p>		
	<p align="center">Modelling & mapping of soil functions across scales <i>Orion, Waaierzaal auditorium</i> Chair: Gerard Heuvelink (ISRIC - World Soil Information)</p>		
8:30	<p align="center">KEYNOTE Mapping microorganisms to understand the feedbacks between warming and soil carbon loss at a global scale <i>Thomas Crowther (ETH Zurich)</i></p>		
9:15	<p align="center">The Soil Navigator: a decision support system for the assessment and management of soil functions <i>Marko Debeljak (Jozef Stefan Institute)</i></p>		
9:30	<p align="center">Using Soil Survey and Dynamic Soil Properties to set Soil Health Benchmarks <i>Skye Wills (United States Department of Agriculture)</i></p>		
9:45	<p align="center">Assessment of soil ecosystem services for territorial planning <i>Christian Walter (UMR SAS, Agrocampus Ouest)</i></p>		
10:00	<p align="center">Poster pitches</p> <p>MMF.0.1 - Development and testing of site-specific fertiliser formulations for rice in sub-Saharan Africa - <i>Johan Leenaars</i> MMF.0.2 - Deriving a set of simple rules to classify soils for predicting hydrological response - <i>Alan Lilly</i> MMF.0.3 - Water flow in soils with heterogeneous macropore geometries - <i>Carlos Alberto Faúndez Urbina</i> MMF.0.4 - Spatial prediction of soil salinity using machine learning algorithms in semi-arid region of Iran - <i>Mojtaba Zeraatpisheh</i></p>		
10:10	<p align="center"><i>coffee & poster placement, Orion, The Spot</i></p>		
	<p align="center">Parallel sessions</p>		
	<p align="center">Modelling & mapping: soil organic carbon Chair: Karen Vancampenhout <i>Orion, room C1040</i></p>	<p align="center">Modelling & mapping: mapping soil properties and functions Chair: Jakob Wallinga <i>Orion, room C2035</i></p>	<p align="center">Modelling & mapping: soil hydraulic processes and nutrient cycling Chair: Jannes Stolte <i>Orion, room C2051</i></p>
10:40	<p align="center">Soil mass and grinding strongly affect permanganate-oxidizable carbon (POXC) values <i>Mirjam Pulleman (Wageningen University & Research)</i></p>	<p align="center">Accounting for measurement errors in soil observations to improve the accuracies of digital soil mapping outputs <i>Anselme Bertin Takoutsing (World Agroforestry Centre)</i></p>	<p align="center">Performance of parametric and non-parametric pedotransfer functions for soil hydraulic properties in sub-humid conditions in Zambia <i>Mulenga Kalumba (Katholieke Universiteit Leuven)</i></p>
10:55	<p align="center">Soil microbes and carbon stocks respond to climate-driven changes in the physico-chemical soil matrix <i>Sabine Reinsch (Centre for Ecology & Hydrology)</i></p>	<p align="center">SoilGrids: consistent soil information to assess and map soil functions at global scale <i>Laura Poggio (ISRIC - World Soil Information)</i></p>	<p align="center">Using spatially explicit soil mapping and modelling to understand and mitigate nitrate leaching in an agricultural catchment <i>Naila Hina (Newcastle University)</i></p>
11:10	<p align="center">Decay of decades-old SOC as an emergent first-order general constant: is more mechanistic also more realistic? <i>Lorenzo Menichetti (Swedish University of Agricultural Sciences)</i></p>	<p align="center">Optimizing soil functions on agricultural land by means of a Bayesian belief network across the European Union <i>Dirk Vrebos (University of Antwerp)</i></p>	<p align="center">From soil properties to nutrient requirements: How much can we predict? <i>Joost van Heerwaarden (Wageningen University & Research)</i></p>
11:25	<p align="center">Space-time mapping of soil organic carbon concentration and stock to support land degradation neutrality and climate mitigation policies <i>Gerard Heuvelink (ISRIC - World Soil Information)</i></p>	<p align="center">Understanding soil-landscape functioning to support Land Degradation Neutrality <i>Titia Mulder (Wageningen University & Research)</i></p>	<p align="center">Development of a decision support framework to evaluate the impacts of agricultural management on crop, soil, and environmental quality <i>Madaline Young (Wageningen University & Research)</i></p>
11:40	<p align="center">Poster pitches</p> <p>MMF.1.1 - Mapping soil organic carbon content using FTIR spectroscopy data and proximal soil sensing in soils of semi-arid regions of Iran - <i>Maryam Ghebleh Goydaragh</i></p> <p>MMF.1.2 - Nonlinear Multicomponent Biodegradation in Heterogeneous Unsaturated Soils under Transient Infiltration - <i>Darrell Tang</i></p> <p>MMF.1.3 - Reliability of the global climate models during 1961-1999 in arid and semiarid regions of China - <i>Yanfen Yang</i></p> <p>MMF.1.4 - Mapping soil organic carbon in the agro-pastoral transitional landscape system of Bashang area in North China - <i>Zhuodong Zhang</i></p> <p>MMF.1.5 - Impacts of Land Use change and Climate change on Soil Organic Carbon Stocks in the Ethiopian Highlands - <i>Annemieke Reurslag Gärdenäs</i></p> <p>MMF.1.6 - Influence of different annual precipitation averages on carbon stock, detritus production and biological parameters of soils in dry and humid oak forests in Central Europe - <i>István Fekete</i></p>	<p align="center">Poster pitches</p> <p>MMF.2.1 - Model-based geostatistics from a Bayesian perspective: Investigating area-to-point kriging with small datasets - <i>Luc Steinbuch</i></p> <p>MMF.2.2 - Digital photography as a tool for predicting and mapping soil properties on a soil profile - <i>Jannis Heil</i></p> <p>MMF.2.3 - Support of national mapping and assessment of ecosystem services by functional digital soil maps - <i>Gábor Szatmári</i></p> <p>MMF.2.4 - Regional characterization of soil properties by combining methods from remote sensing, geophysics and pedology - <i>Elke Fries</i></p> <p>MMF.2.5 - Effects of near soil surface characteristics on soil detachment by overland flow in a natural succession grassland - <i>Bing Wang</i></p> <p>MMF.2.6 - Estimation and evaluation of soil erodibility of northeast China - <i>Tianyu Zhang</i></p>	<p align="center">Poster pitches</p> <p>MMF.3.1 - Evaluation of estimated soil hydraulic parameters at three forestry monitoring sites in Hungary - <i>Bence Decsi</i></p> <p>MMF.3.2 - Tackling Sub-Saharan Africa's yield gap: maximising yield potential from phosphorus application - <i>Daniel Magnone</i></p> <p>MMF.3.3 - A methodology to assess the impact of agricultural practices in the Water- Energy – Food Nexus - <i>Ana Paula Turetta</i></p> <p>MMF.3.4 - Economic Assessment of the Long-Term Agronomic Benefits of the Cultivation of Winter Catch Crops - <i>Arnoud Maaswinkel</i></p> <p>MMF.3.5 - Lost of soil resilience after 80 years of rubber monocropping - <i>Alain Daniel Brauman</i></p> <p>MMF.3.6 - The effect of copper toxicity on the interaction of trace metals in agricultural soils: South Tyrol as a case study - <i>Giulio Genova</i></p>

	<p>MMF.1.7 - Deep Soil Carbon Storage from Agricultural Soils of Northern Thailand - <i>Suphathida Aumtong</i></p> <p>MMF.1.8 - The operational implementation of soil functions and sustainable forest management through LANDSUPPORT Web-Based Land Decision Support System - <i>Gina Marano</i></p> <p>MMF.1.9 - Characterization of podzolization process after afforestation of former agricultural lands in boreo-nemoral zone, Latvia - <i>Baiba Dirnena</i></p> <p>MMF.1.10 - Comparative analysis of the state of green spaces and the physical chemical and microbiological properties of the soil in the recreational areas of the New Moscow with a different land-use history - <i>Sofiya Demina</i></p> <p>MMF.1.11 - Competing drivers of Soil Carbon change at a national scale - <i>Amy Thomas</i></p> <p>MMF.1.12 - Spatial pattern of soil microbial diversity and soil physicochemical properties along with their application in quality evaluation of cultivated land at county scale - <i>Ling Xiao</i></p> <p>MMF.1.13 - Soil carbon modeling – in an integrated assessment perspective - <i>Kristine Karstens</i></p> <p>MMF.1.14 - Including dissolved carbon leaching from soils in the global terrestrial carbon budget - <i>Joep Langeveld</i></p>	<p>MMF.2.7 - Remote sensing of soils from UAV platforms: comparing multispectral and laboratory hyperspectral soil reflectance data from Mediterranean cultivated soils - <i>Laura Quijano</i></p> <p>MMF.2.8 - Soil mapping in Latvia and challenges in future - <i>Raimonds Kasparinskis</i></p> <p>MMF.2.9 - How similar and accurate are the existing digital soil organic carbon maps in Brittany (France)? - <i>Christian Walter</i></p> <p>MMF.2.10 - Spatial and Temporal trends in Soil OC, N, and P based on Landform, Tillage, and Input Management - <i>Stephen Crittenden</i></p> <p>MMF.2.11 - Optimizing the sampling strategy for monitoring the bioremediation of contaminated soil at a landfarm - <i>Anja Derycke</i></p> <p>MMF.2.12 - Monitoring agricultural field trafficability using Sentinel-1 - <i>Coleen Carranza</i></p> <p>MMF.2.13 - Hyperspectral images in the support of Digital Soil Mapping: Mountain study case - <i>Yuri Gelsleichter</i></p> <p>MMF.2.14 - Functional Land Management for identifying regional transition pathways for sustainable development: an example from the Nordic region - <i>Kristine Valujeva</i></p> <p>MMF.2.15 - First Internationale Bodenbauausstellung - <i>Jakob Hüppauff</i></p>	<p>MMF.3.7 - Thermal diffusivity of sands as related to soil moisture: direct measurements and model estimates - <i>Artem Lebedev</i></p> <p>MMF.3.8 - On the complexity of model complexity: viewpoints across the geosciences - <i>Jantiene Baartman</i></p> <p>MMF.3.9 - Limiting hydraulic condition to sugarcane: calibration and sensitivity to root distribution - <i>Marina Luciana Abreu de Melo</i></p> <p>MMF.3.10 - Field scale numerical modelling of nitrogen transport for better design of slow release fertilizer - <i>Ali Mehmandoustkotlar</i></p> <p>MMF.3.11 - Experimental data for modeling erosion and soil fertility - <i>Aleksandr Aksenov</i></p> <p>MMF.3.12 - Assessment and mapping the sustainable soil storage capacity of metals at European scale - <i>Wim de Vries</i></p> <p>MMF.3.13 - Modeling soil moisture under different tillage practices - <i>Frauke Lindenstruth</i></p> <p>MMF.3.14 – Farming systems targeted to water regulation and purification in agricultural soils – <i>Lilian O'Sullivan</i></p> <p>MMF.3.15 - Developing the framework for On-farm Fertiliser Management Decision Support Tool based on soil diagnostic properties in Northern Ethiopia - <i>Mehretab Yohalashet</i></p>
12:00	<p>Poster session Orion entrance lunch, Orion, The Spot (served 12.30)</p>		
13:30	<p>Masterclasses</p>		
	<p>M22 - Interactive Augmented Reality Workshop for managing soil functions (C3016)</p> <p>M23 - The future of European agricultural soil management (C3042)</p> <p>M24 - Getting a grip on soil bioturbation rates (C3033)</p>	<p>M25 - A tool for identifying biological indicators of soil functions (C3020)</p> <p>M26 - Sensor technology for fast and on-site soil fertility diagnosis (C3030)</p> <p>M27 - Machine Learning for soil mapping (PC3031)</p>	<p>M28 - Spectral libraries for field predictions (C3015)</p> <p>M29 - Challenges in assessing the regional feasibility of local subsurface water (C3043)</p> <p>M30 - Designing soil models (C3034)</p>
16:30	<p>walk to Lumen building</p>		
17:00	<p>Meet the Experts Lumen, terrace and rooms 1&2</p>		
18:30	<p>cycling or bus transfer from Lumen entrance to De Blaauwe Kamer</p>		
19:30	<p>Conference dinner De Blaauwe Kamer, Wageningen</p>		
21:30	<p>cycling or bus transfer from De Blaauwe Kamer to Lumen entrance or Wageningen city centre</p>		

Thursday 29th August 2019

Friday 30th August

8:00	<i>registration, Orion entrance</i>		
	Can we understand synergies and trade-offs between soil functions? <i>Orion, Waaierzaal auditorium</i> Chair: Jantien Baartman (Wageningen University & Research)		
8:30	KEYNOTE Soil functions and land management: potential synergies and tradeoffs at the tropical agricultural frontier (Brazil) Maria Victoria Ballester (University of Sao Paulo)		
9:15	Synergies and trade-offs in functional soil management Marie Zwetsloot (Wageningen University & Research)		
9:30	The impact of agricultural diversification and management on soil aggregation across Europe Anna Edlinger (Agroscope)		
9:45	Using structural equation modeling to understand the relationships between ecosystem services and their underlying drivers in French agricultural landscapes Gregory Obiang Ndang (INRA)		
10:00	Complex farming systems: more ecosystem services and higher labour requirements Jonas Steinfeld and Rogier Schulte (Wageningen University & Research)		
10:15	<i>coffee, Orion, The Spot</i>		
	Parallel sessions		
	Synergies & trade-offs: soil health and climate change Chair: Thomas Kätterer <i>Orion, room C1040</i>	Synergies & trade-offs: soil and land management Chair: Brigitta Szabo <i>Orion, room C2035</i>	Synergies & trade-offs: soil carbon and nutrient cycling Chair: Titia Mulder <i>Orion, room C2051</i>
10:45	Harnessing trait-based plant combinations to mitigate nitrous oxide emissions in a changing climate <i>Natalie Oram (Wageningen University & Research)</i>	The role of habitat connectivity in fungal mediated processes: a biophysical model <i>Wilfred Otten (Cranfield University)</i>	Interannual variation characteristics of soil available phosphorus, inorganic phosphorus fractions and rice yield in a subtropical paddy soil under different fertilization over 35 years <i>Jing Huang (Chinese Academy of Agricultural Sciences)</i>
11:00	Soil biota drive the temporal stability of plant primary productivity <i>Gaowen Yang (Freie Universität Berlin)</i>	Are crop yield and ecosystem multifunctionality affected by the duration of organic management? <i>Chantal Herzog (Agroscope)</i>	Integrating productivity and soil nutrient availability to evaluate the nutrient response efficiency of cropland monoculture versus agroforestry systems <i>Marcus Schmidt (Universität Göttingen)</i>
11:15	Earthworms as an indicator of soil health <i>Felicity Crotty (Royal Agricultural University)</i>	Rebound effects in agricultural land and soil management: review and analytical framework <i>Carsten Paul (Leibniz Centre for Agricultural Landscape Research)</i>	Recovery of soils from acidic deposition may exacerbate nitrogen export from forested watersheds <i>Gregory Lawrence (U.S. Geological Survey)</i>
11:30	Understanding the spatial distribution of soil organic carbon pools in a degraded Amazonian landscape to guide land use interventions towards improved soil quality and climate change mitigation <i>Wietse Wiersma (Wageningen University & Research)</i>	Can the use of support species in forestry improve soil quality, nutrient cycling and tree health? <i>Karen Vancampenhout (Katholieke Universiteit Leuven)</i>	The interplay between abiotic and biotic factors regulates carbon losses in peatlands <i>Raquel Juan-Ovejero (Universidade de Vigo)</i>
11:45	SoilIndex: evaluation tool for soil quality <i>Laura van Schöll (Nutrient Management Institute)</i>	Necessary changes in nitrogen use efficiency in European agriculture to reconcile agricultural productivity with water quality objectives <i>Lena Schulte-Uebbing (Wageningen University & Research)</i>	High resolution mapping of soil organic carbon and major nutrients within smallholder farms using randomForest and satellite imagery: towards improved soil fertility management <i>Powell Mponela (Center for Development Research, University of Bonn)</i>
12:00	An index for healthy urban soils in the Amsterdam Metropolitan Area <i>Simone Verzandvoort (Wageningen University & Research)</i>	Evaluating the natural flood management potential of soil use and management strategies by integrating farmer knowledge and scientific knowledge <i>Joanna Clark (University of Reading)</i>	Soil organic matter and productivity of boreal clay soils <i>Helena Soinne (Natural Resources Institute Finland)</i>
12:15	Protecting soil functions - Interpreting soils data for policy makers, agencies and industry <i>Nikki Baggaley (James Hutton Institute)</i>	Soil functions assessments as a means for sustainable soil and land use management - Exploring their sensitivity towards processes of global change <i>Elisabeth Jost (University of Natural Resources and Life Sciences Vienna)</i>	An assessment of soil organic matter thresholds for crop production in Europe <i>Renske Hijbeek (Wageningen University & Research)</i>
12:30	CLOSURE lunch Orion, The Spot		
13:00 - 15:30	[side event] SOPHIE workshop 13.00-15.30 Orion, C3033		