



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)	8:30 <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				9:15 oral 1				9:15 oral 1		
	9:30 oral 2	9:30 oral 2				9:30 oral 2				9:30 oral 2		
	9:45 oral 3	9:45 oral 3				9:45 oral 3				9:45 oral 3		
	10:00 4 poster pitches	10:00 4 poster pitches				10:00 4 poster pitches				10:00 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				10:10 <i>coffee & poster placement, Orion, The Spot</i> Parallel sessions 1: room C1040 2: room C2035 3: room C2051				10:15 <i>coffee, Orion, The Spot</i> Parallel sessions 1: room C1040 2: room C2035 3: room C2051		
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	10:55 oral 2	10:55 oral 2				10:55 oral 2				11:00 oral 2		
	11:10 oral 3	11:10 oral 3				11:10 oral 3				11:15 oral 3		
	11:25 oral 4	11:25 oral 4				11:25 oral 4				11:30 oral 4		
	11:40 Poster pitches	11:40 Poster pitches				11:40 Poster pitches				11:45 oral 5		
	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>				12:00 Poster session <i>Orion entrance</i> <i>lunch, Orion, The Spot (served 12.30)</i>				12:00 oral 6		
	12:15 oral 7	12:15 oral 7				12:15 oral 7				12:15 oral 7		
	13:30 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)	13:30 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)				13:30 Masterclasses M22 (C3016) M25 (C3020) M28 (C3015) M23 (C3042) M26 (C3030) M29 (C3043) M24 (C3033) M27 (PC3031) M30 (C3034)				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 <i>group photo followed by refreshments</i> <i>Orion entrance</i>	16:30 <i>refreshments</i> <i>Orion, The Spot</i>			16:30 <i>walk to Lumen building</i>					
	17:00 Fish bowl "From the Ground Up" <i>Orion, The Spot</i> followed by networking time <i>Orion, The Spot</i>	17:00 Young scientists pitches "Rising Soil Stars" Orion, <i>Waaierzaal auditorium</i> 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				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>																								
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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 Orion entrance 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" 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	<p style="text-align: center;"><u>Poster pitches</u></p> IMM.1.1 - Sewage sludge disposal: an entry door for microplastics in soils - <i>Fabio Corradini</i> IMM.1.2 - Electrical characterization of intact plant root systems: An innovative method for sensing soil environments - <i>Imre Cseresnyés</i> IMM.1.3 - Study on Influence and Compensation Method of Soil Compactness on Soil Volumetric Water Content Measurement - <i>Yandong Zhao</i> IMM.1.4 - Soil spectroscopy for the Dutch Soil Information System - <i>S. de Jong</i> IMM.1.5 - The influence of lime on the physical and chemical composition of heavy soils - <i>David Corbett</i>	<p style="text-align: center;"><u>Poster pitches</u></p> IMM.2.1 - Salt tolerant characters of Bacillus arrayabhatai in reducing the salinity effect on paddy - <i>Rakiba Shultana</i> IMM.2.2 - Phytomanagement of polluted sites for the recovery of soil health - <i>Lur Epelde</i> IMM.2.3 - Soil stoichiometry effect on microbial processes and its reflection in C and N isotopic composition - <i>Julian Cardenas</i> IMM.2.4 - A slow path towards measuring root exudate effects on rhizosphere functioning and soil biogeochemical cycles - <i>Marie Zwetsloot</i> IMM.2.5 - Functional genes as a predictor of soil functions - <i>Katja Kozjek</i>	<p style="text-align: center;"><u>Poster pitches</u></p> IMM.3.1 - The Residual Effect of the Modified White CKD on Peas Plants Grown in Sandy Soil - <i>Mahmoud Morsy</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.3.3 - An overview of pedogenesis in Technosols in South Africa - <i>Angelique Daniell</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.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	<i>registration and poster placement, Orion entrance</i>		
	Modelling & mapping of soil functions across scales <i>Orion, Waaierzaal auditorium</i> Chair: Gerard Heuvelink (ISRIC - World Soil Information)		
8:30	KEYNOTE Mapping microorganisms to understand the feedbacks between warming and soil carbon loss at a global scale <i>Thomas Crowther (ETH Zurich)</i>		
9:15	The Soil Navigator: a decision support system for the assessment and management of soil functions <i>Marko Debeljak (Jozef Stefan Institute)</i>		
9:30	Using Soil Survey and Dynamic Soil Properties to set Soil Health Benchmarks <i>Skye Wills (United States Department of Agriculture)</i>		
9:45	Assessment of soil ecosystem services for territorial planning <i>Christian Walter (UMR SAS, Agrocampus Ouest)</i>		
10:00	Poster pitches 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>		
10:10	<i>coffee & poster placement, Orion, The Spot</i>		
	Parallel sessions		
	Modelling & mapping: soil organic carbon Chair: Karen Vancampenhout <i>Orion, room C1040</i>	Modelling & mapping: mapping soil properties and functions Chair: Jakob Wallinga <i>Orion, room C2035</i>	Modelling & mapping: soil hydraulic processes and nutrient cycling Chair: Jannes Stolte <i>Orion, room C2051</i>
10:40	Soil mass and grinding strongly affect permanganate-oxidizable carbon (POXC) values <i>Mirjam Pulleman (Wageningen University & Research)</i>	Accounting for measurement errors in soil observations to improve the accuracies of digital soil mapping outputs <i>Anselme Bertin Takoutsing (World Agroforestry Centre)</i>	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>
10:55	Soil microbes and carbon stocks respond to climate-driven changes in the physico-chemical soil matrix <i>Sabine Reinsch (Centre for Ecology & Hydrology)</i>	SoilGrids: consistent soil information to assess and map soil functions at global scale <i>Laura Poggio (ISRIC - World Soil Information)</i>	Using spatially explicit soil mapping and modelling to understand and mitigate nitrate leaching in an agricultural catchment <i>Naila Hina (Newcastle University)</i>
11:10	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>	Optimizing soil functions on agricultural land by means of a Bayesian belief network across the European Union <i>Dirk Vrebos (University of Antwerp)</i>	From soil properties to nutrient requirements: How much can we predict? <i>Joost van Heerwaarden (Wageningen University & Research)</i>
11:25	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>	Understanding soil-landscape functioning to support Land Degradation Neutrality <i>Titia Mulder (Wageningen University & Research)</i>	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>
11:40	Poster pitches	Poster pitches	Poster pitches
	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>	MMF.2.1 - Model-based geostatistics from a Bayesian perspective: Investigating area-to-point kriging with small datasets - <i>Luc Steinbuch</i>	MMF.3.1 - Evaluation of estimated soil hydraulic parameters at three forestry monitoring sites in Hungary - <i>Bence Decsi</i>
	MMF.1.2 - Nonlinear Multicomponent Biodegradation in Heterogeneous Unsaturated Soils under Transient Infiltration - <i>Darrell Tang</i>	MMF.2.2 - Digital photography as a tool for predicting and mapping soil properties on a soil profile - <i>Jannis Heil</i>	MMF.3.2 - Tackling Sub-Saharan Africa's yield gap: maximising yield potential from phosphorus application - <i>Daniel Magnone</i>
	MMF.1.3 - Reliability of the global climate models during 1961-1999 in arid and semiarid regions of China - <i>Yanfen Yang</i>	MMF.2.3 - Support of national mapping and assessment of ecosystem services by functional digital soil maps - <i>Gábor Szatmári</i>	MMF.3.3 - A methodology to assess the impact of agricultural practices in the Water- Energy – Food Nexus - <i>Ana Paula Turetta</i>
	MMF.1.4 - Mapping soil organic carbon in the agro-pastoral transitional landscape system of Bashang area in North China - <i>Zhuodong Zhang</i>	MMF.2.4 - Regional characterization of soil properties by combining methods from remote sensing, geophysics and pedology - <i>Elke Fries</i>	MMF.3.4 - Economic Assessment of the Long-Term Agronomic Benefits of the Cultivation of Winter Catch Crops - <i>Arnoud Maaswinkel</i>
	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>	MMF.2.5 - Effects of near soil surface characteristics on soil detachment by overland flow in a natural succession grassland - <i>Bing Wang</i>	MMF.3.5 - Lost of soil resilience after 80 years of rubber monocropping - <i>Alain Daniel Brauman</i>
	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>	MMF.2.6 - Estimation and evaluation of soil erodibility of northeast China - <i>Tianyu Zhang</i>	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>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>Lillian 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, Waaienzaal auditorium</i> Chair: Jantiene 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 Natalie Oram (Wageningen University & Research)	The role of habitat connectivity in fungal mediated processes: a biophysical model Wilfred Otten (Cranfield University)	Interannual variation characteristics of soil available phosphorus, inorganic phosphorus fractions and rice yield in a subtropical paddy soil under different fertilization over 35 years Jing Huang (Chinese Academy of Agricultural Sciences)
11:00	Soil biota drive the temporal stability of plant primary productivity Gaowen Yang (Freie Universität Berlin)	Are crop yield and ecosystem multifunctionality affected by the duration of organic management? Chantal Herzog (Agroscope)	Integrating productivity and soil nutrient availability to evaluate the nutrient response efficiency of cropland monoculture versus agroforestry systems Marcus Schmidt (Universität Göttingen)
11:15	Earthworms as an indicator of soil health Felicity Crotty (Royal Agricultural University)	Rebound effects in agricultural land and soil management: review and analytical framework Carsten Paul (Leibniz Centre for Agricultural Landscape Research)	Recovery of soils from acidic deposition may exacerbate nitrogen export from forested watersheds Gregory Lawrence (U.S. Geological Survey)
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 Wietse Wiersma (Wageningen University & Research)	Can the use of support species in forestry improve soil quality, nutrient cycling and tree health? Karen Vancampenhout (Katholieke Universiteit Leuven)	The interplay between abiotic and biotic factors regulates carbon losses in peatlands Raquel Juan-Ovejero (Universidade de Vigo)
11:45	SoilIndex: evaluation tool for soil quality Laura van Schöll (Nutrient Management Institute)	Necessary changes in nitrogen use efficiency in European agriculture to reconcile agricultural productivity with water quality objectives Lena Schulte-Uebbing (Wageningen University & Research)	High resolution mapping of soil organic carbon and major nutrients within smallholder farms using randomForest and satellite imagery: towards improved soil fertility management Powell Mponela (Center for Development Research, University of Bonn)
12:00	An index for healthy urban soils in the Amsterdam Metropolitan Area Simone Verzandvoort (Wageningen University & Research)	Evaluating the natural flood management potential of soil use and management strategies by integrating farmer knowledge and scientific knowledge Joanna Clark (University of Reading)	Soil organic matter and productivity of boreal clay soils Helena Soinne (Natural Resources Institute Finland)
12:15	Protecting soil functions - Interpreting soils data for policy makers, agencies and industry Nikki Baggaley (James Hutton Institute)	Soil functions assessments as a means for sustainable soil and land use management - Exploring their sensitivity towards processes of global change Elisabeth Jost (University of Natural Resources and Life Sciences Vienna)	An assessment of soil organic matter thresholds for crop production in Europe Renske Hijbeek (Wageningen University & Research)
12:30	CLOSURE lunch Orion, The Spot		
13:00 - 15:30	[side event] SOPHIE workshop 13.00-15.30 Orion, C3033		