



**World Soil Day Celebration**  
**Food Security and Human Capital in Soil Science**

5 – 6 December 2018

Saint Petersburg, Russia

*Draft Agenda*

<p><b>Day 1 – December 5, Wednesday</b></p> <p><b>Plenary Session</b></p> <p>Main Hall at St. Petersburg University</p> <p>7/9 Universitetskaya Emb.</p>	
<p>9:00 – 9:20</p>	<p><b><u>Welcoming Remarks:</u></b></p> <ul style="list-style-type: none"> <li>- <i>Sergey A. Shoba</i>, Director of the Eurasian Center for Food Security (ECFS) and Dean of the Faculty of Soil Science, Lomonosov Moscow State University</li> <li>- <i>Boris F. Aparin</i>, Vice-President of V.V. Dokuchaev Society of Soil Science, Professor of the Department of Soil Science and Soil Ecology, St. Petersburg University</li> <li>- <i>Artavazd Hakobyan</i>, Senior Agriculture Economist at the World Bank</li> <li>- <i>St. Petersburg University Representative (TBC)</i></li> <li>- <i>Representative of the Kingdom of Thailand (TBC)</i></li> <li>- <i>Aghasi Harutyunyan</i>, Officer-in-Charge of the FAO Liaison Office with the Russian Federation</li> </ul>
<p>9:20 – 10:40</p>	<p><b><u>Plenary Session</u></b></p> <p><b>Moderator: Sergey A. Shoba</b>, Eurasian Center for Food Security (ECFS), Lomonosov Moscow State University</p> <p><i>(20 minute presentations)</i></p> <ul style="list-style-type: none"> <li>- <i>The state of world soil resources on the sustainable development agenda, Rosa</i></li> </ul>

	<p>Cuevas, FAO</p> <ul style="list-style-type: none"> <li>- <i>Spreading the knowledge on soils: the role of soil museums and the World Soil Day</i>, Elena Yu. Sukhacheva, Central Museum of Soil Science of V.V. Dokuchaev</li> <li>- <i>Soil science and food security in the Eurasia region: experience of ECFS</i>, Sergey A. Shoba and Pavel V. Krasilnikov, ECFS, LMSU</li> <li>- Representative of the Ministry of agriculture of the Russian Federation (TBD)</li> </ul> <p>Discussion</p>	
10:40 – 11:00	Coffee Break	
11:00 – 13:00	<ul style="list-style-type: none"> <li>- <i>Human capital in soil science in Africa</i>, Andrei Rozanov and Liesl Wiese, Stellenbosch University</li> <li>- <i>Human capital in soil science in Central Asia and the South Caucasus</i>, Thomas Thompson, Virginia Tech and Kanysh Nurymgereyev, Independent consultant</li> <li>- <i>The Role of Soil Science and Agronomy in Africa for Improving Food Security</i>, Majaliwa Mwanjalolo, RUFORUM</li> <li>- <i>Soil science and agrochemistry in South-East Asia: key challenges</i>, Representative of the Chinese Academy of Sciences (TBD)</li> <li>- <i>Opportunities for applied soil research in Russian (topic TBC)</i>, Ivan I. Vasenev and Turmushbek M. Dzhancharov, Russian State Agrarian University – Moscow Timiryazev Agricultural Academy (RSAU – MAA named after K.A. Timiryazev)</li> <li>- <i>Soil resources in Russia: current challenges</i>, Vladimir S. Stolbovoy, V.V. Dokuchaev Soil Science Institute</li> </ul> <p>Discussion</p>	
13:00 – 13:30	Soil Parade	
13:30 – 14:30	Lunch	
14:30 – 15:30	<b><u>Poster Session “Soil Pollution, Remediation and Food Quality”</u></b>	
15:30 – 18:30	<p><b><u>Tour of museums in St. Petersburg</u></b></p>	<p><b><u>Master classes for young scientists</u></b></p> <ul style="list-style-type: none"> <li>• <i>The state of world soil resources and existing challenges</i>, Rosa Cuevas, FAO</li> <li>• Erick Fernandes, The World Bank (TBC)</li> <li>• <i>Digital methods in soil science</i>, Maria V. Konyushkova, ECFS, LMSU</li> </ul>
19:00 – 22:00	Dinner-quest at Central Museum of Soil Science of V.V. Dokuchaev.	

<b>Day 2 – December 6, Thursday</b> <b>Roundtable Sessions and Panel Discussion</b> Central Museum of Soil Science of V.V. Dokuchaev., 6 Birzhevoy Proezd	
09:00 – 11:15	<p><u>Roundtable Session 1 (online participation possible): Soil Organic Carbon Cycle Management for Food Security and Climate Change Mitigation</u></p> <p><i>Participants will discuss the importance of soil organic matter in addressing two global challenges: increasing agricultural productivity for improved food security and mitigating climate change through carbon fixation in agriculture soils. How realistic are these goals and can they be jointly achieved? What are the ways and mechanisms to achieve these goals?</i></p> <p><i>(10 minute presentations)</i></p> <p><b>Moderator: Pavel V. Krasilnikov, ECFS, LMSU</b></p> <ul style="list-style-type: none"> <li>- Study of soil organic carbon and its practical application, <i>Alessandro Piccolo, CERMANTU</i></li> <li>- <i>Topic TBD, Didier Lesueur, CIAT-Asia</i></li> <li>- Ecological services of soil organic carbon in modern ecosystems, <i>Seraphim N. Chukov, St Petersburg University</i></li> <li>- 4 per 1000: How to deal with climate change determining carbon in soil? <i>Vladimir A. Romanenkov, ECFS, LMSU</i></li> <li>- <i>Topic TBD, Erick Fernandes, The World Bank</i></li> <li>- <i>Topic TBD, Meas Pyseth, Ministry of Agriculture, Forestry and Fisheries, Cambodia</i></li> <li>- Discovering the potential of soil organic carbon, <i>Rosa Cuevas, FAO</i></li> </ul>
11:15 – 11:45	Coffee Break
11:45 – 14:00	<p><u>Roundtable Session 2: Soil Science and Digital Agriculture</u></p> <p><i>Participants will discuss the efficiency of digital technologies' implementation in agriculture and the state of soil information in Russia and in the world. The following questions will be addressed: How can digital technologies in soil science contribute to the development of agriculture in Russia? How can digital technologies and accessible soil information help increase the efficiency of farms?</i></p> <p><i>(10 minute presentations)</i></p> <p><b>Moderator: Daniil N. Kozlov, V.V. Dokuchaev Soil Science Institute</b></p> <ul style="list-style-type: none"> <li>- <i>Precision agriculture in Russia, Viktor P. Yakushev, Agrophysical Research Institute</i></li> <li>- Representative of the Chinese Academy of Sciences (TBC)</li> <li>- <i>Topic TBD, Andrey A. Kasatskiy, Agrivita LLC</i></li> <li>- Representatives of agribusiness</li> </ul>
14:00 – 15:00	Lunch
15:00 – 16:00	Tour of the Central Museum of Soil Science of V.V. Dokuchaev.

<p>16:00 – 18:15</p>	<p><u>Panel Discussion: Soil Education and Food Security: New Millennium Challenges</u></p> <p><i>During this session, representatives of soil institutions will discuss what skills soil scientists need to have in order to resolve existing challenges and improve food security in different regions of the world. The following questions will be addressed: What steps need to be taken to develop human capital in soil science? Is it important that food policy experts, agronomists, conservationists, ecologists, biologists etc. have knowledge and expertise in soil science and why?</i></p> <p><b>Moderator: Artavazd Hakobyan, The World Bank</b></p> <ul style="list-style-type: none"> <li>- <b>Sergey A. Shoba, ECFS, LMSU</b></li> <li>- <b>Majaliwa Mwanjalolo, RUFORUM</b></li> <li>- <b>Turmushbek M. Dzhancharov, RSAU – MAA named after K.A. Timiryazev</b></li> <li>- <b>Aleksey V. Rusakov, St. Petersburg University</b></li> <li>- <b>Kristina V. Ivaschenko, RUDN</b></li> <li>- <i>Representative of the Department of Landscape Geochemistry and Soil Geography, LMSU</i></li> <li>- <b>Erick Fernandes, The World Bank</b></li> <li>- <b>Laziza A. Gafurova, National University of Uzbekistan (TBC)</b></li> <li>- <b>Ngurah Santosa, Indonesia, Udayana University, Denpasar</b></li> <li>- <i>Representative of the Chinese Academy of Sciences (TBC)</i></li> </ul> <p>Discussion Participants: <i>Unan Ghazaryan (Armenia), Kubanychbek Kulov (Kyrgyzstan), Ruzana Manukyan (Armenia), Tatyana Puzanova (Russia) (TBC)</i></p>
<p>18:15 – 18:30</p>	<p><b>Closing Remarks: Elena Yu. Sukhacheva, Central Museum of Soil Science of V.V. Dokuchaev</b></p>