

## SSSA Single Topic Conference Form

<b>BROAD AREA</b>	<b>CONFERENCE TOPIC</b>
<b><i>SOIL HEALTH, HUMAN HEALTH &amp; DISEASES</i></b>	<ul style="list-style-type: none"> <li>- Soil hosts for disease agents: chemical, biological, physical</li> <li>- Soil as a predictor for exposure to disease agents</li> <li>- Effects of soil and climate change interaction on endemic areas of disease</li> <li>- Soil Biodiversity and Human Health specific to pharmaceuticals and medical allies industry.</li> <li>-Soil related diseases</li> <li>-Soil health and the link to sustainable production.</li> <li>-Relationships between soil quality and human civilization, Can soil health affect human health?, Effect of soils on infectious diseases</li> <li>-Microscopic and molecular descriptions of soil environments.</li> </ul>
<b><i>CLIMATE CHANGE</i></b>	<ul style="list-style-type: none"> <li>-Soil's role in energy, water, and carbon budget</li> <li>-Soil's role in energy, water, food nexus</li> <li>-Soil's role in N<sub>2</sub>O emissions</li> <li>-Soil processes and air quality</li> </ul>
<b><i>FOOD SECURITY AND BIOFUEL PRODUCTION</i></b>	<ul style="list-style-type: none"> <li>- Soil's role in securing the World's food supplies</li> <li>- The role of soil in N-use efficiency</li> <li>- Genetic-environment interactions for precision management of crops</li> <li>- Management of biofuel residues for sustainable production</li> <li>-Food Security and Biofuel Production</li> </ul>

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	<p>-Sustainable Resource management for global food security</p>
<p><b><i>WATER AND LAND RESOURCES</i></b></p>	<ul style="list-style-type: none"> <li>- Soil processes and wastewater management</li> <li>- Precision management of soil and water resources</li> <li>- Soil developmental processes for ecological restoration</li> <li>-Precision management of soil and water resources: effects on water and nutrient use efficiencies</li> <li>- Secondary porosity (macropore) flow mechanisms</li> <li>-Land application or environmental uses of industrial by-products.</li> <li>-Fire Impacts on Soils and Watersheds</li> <li>-Soil organic matter: the dynamic link between Earth system processes and ecosystem services</li> <li>-Manure usage in the agriculture system</li> </ul>
<p><b><i>ECOSYSTEM SERVICES AND BIODIVERSITY</i></b></p>	<ul style="list-style-type: none"> <li>-Soil processes controlling Ecosystem Services in agro- and natural-ecosystems (S-3)</li> <li>-Soil processes vital to sustaining Ecosystem Services in agro- and natural-ecosystems</li> <li>-Harmful Algal Blooms</li> <li>-Investing in soils to support ecological restoration</li> <li>-Agroforestry for Ecosystem services</li> <li>-Cover crops for Ecosystem Services</li> <li>-Soil and Ecosystem reclamation/restoration specific to mining, oil and gas</li> <li>-Ecological Sustainability</li> </ul>

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	<ul style="list-style-type: none"> <li>-Rhizosphere Ecology</li> <li>-Knowledge System for Sustainable Landscape Management</li> </ul>
<b><i>BIOGEOCHEMICAL CYCLES</i></b>	<ul style="list-style-type: none"> <li>-Soil biochemical cycling from local to global scales</li> <li>-Fate and transport of organophosphorus species in diverse soil types under different land management regimes</li> <li>-Nitrogen Cycle</li> <li>-Microscopic and molecular description of soil environments</li> <li>-Remediation of Organophosphorus based chemical ware-fare agents</li> <li>-How Fe, Al and Si poorly crystalline minerals affect Carbon dynamics in a Global Scale?</li> <li>-Mechanisms of long term carbon and nitrogen storage--do humic substances and/or recalcitrance matter?</li> </ul>
<b><i>EARTH OBSERVATIONS</i></b>	<ul style="list-style-type: none"> <li>-Monitoring of soil processes by remotely sensed data.</li> <li>-Identification and monitoring of soil processes that signify Global change.</li> <li>-Monitoring of soil processes by in-situ and remotely sensed data.</li> <li>-Next Generation Soil Survey—Integrating and Harmonizing the Soil Survey Data on a Landscape Scale.</li> </ul>
<b><i>CONSULTING</i></b>	<ul style="list-style-type: none"> <li>-Protecting intellectual property</li> <li>-Providing expert testimony</li> </ul>
<b><i>SOIL HEALTH AND DISEASES</i></b>	

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	<ul style="list-style-type: none"> <li>-Soil Health and Sustainable Production</li> <li>-Relationships between soil quality and human civilization</li> <li>-Can soil health affect human health? Effect of soils on infectious diseases</li> <li>-Soil related diseases</li> <li>-Soil hosts for disease agents: chemical, biological, physical</li> <li>-Soil as a predictor for exposure to disease agents</li> <li>-Effects of soil and climate change interaction on endemic areas of disease</li> </ul>
<b><i>SOIL &amp; ENVIRONMENT</i></b>	<ul style="list-style-type: none"> <li>-Environmental effects of hydraulic fracturing in oil/gas exploration on the soil ecosystem.</li> <li>-Colloidal geochemistry in natural systems.</li> <li>-Soil environmental fate considerations in the life cycle assessment of new materials.</li> </ul>
<b><i>URBAN SOILS</i></b>	<ul style="list-style-type: none"> <li>-Urban agriculture/forestry; green roof media</li> <li>-Connections between urban soil properties/management and water quality</li> <li>-Soil remediation and brownfield renewal</li> <li>-Urban soil forming factors and their applicability to urban ecosystem studies</li> </ul>