

CSSS_01: Biochar as an amendment in temperate soils

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Session Description

One of the most challenging global issues currently facing humanity is climate change mitigation, soil health and food security. This multidimensional challenge can be addressed by using biochar as a soil amendment to sequester C, while at the same time enhancing plant and soil health, and crop productivity. Amending intensively managed soils with biochar is a more recent approach to agriculture in the temperate zone. This session will highlight the latest research of the use and role of biochar as an agricultural (and forest) soil amendment. Presentations will include all aspects of biochar with research results across multiple scales ranging from laboratory and field-based work to modeling. Sample topics discussed include soil health, greenhouse gas emissions, soil biological activity (macro- meso- and microfauna), soil organic matter dynamics and carbon sequestration, mineralization, nutrient leaching, composting, soil fertility and crop yield (biomass productivity).

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Joint Session Submission: none