

SSS5.2/BG3.42

Mechanisms of soil organic matter stabilization and carbon sequestration

Conveners: Cesar Plaza, Claire Chenu, Claudio Zaccone

Chair: Claudio Zaccone

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In this session we discussed stabilization and sequestration mechanisms of organic C in soils, covering any physical, chemical, and biological aspects related to the selective preservation and formation of recalcitrant organic compounds, occlusion by macro and microaggregation, and chemical interaction with soil mineral particles and metal ions.

14 among 22 authors listed in the programme (64%) uploaded a presentation. The session was extremely lively and well attended (127 individual users attended the chat), and all presentations were extremely interesting. A lot of questions were asked during the chat, and 12 comments posted on the EGUsphere platform.