

Frontiers In Soil Science Research: Report Of A Workshop

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Summary of Presentations

Each of the seven presentations focused on various questions specifically, and also addressed the overarching questions raised at the workshop. Except for Session 6, each session consisted of a presentation of a key speaker followed by two discussants. Session 6 consisted of two speakers. The seven sessions are briefly summarized below. Chapter 4 summarizes the key points that were made during the workshop.

SESSION 1: USING TRACERS TO UNDERSTAND SOIL PROCESSES

Susan Trumbore, University of California, Irvine, discussed the use of transient isotopic tracers on land to quantify and better understand soil processes and how they interact. Soils are a complex of physical, chemical, and biological processes that interact across a range of spatial and temporal scales. It is critical to have tools that quantify and serve as indicators of (1) physical rates, (2) isotopic or elemental "fingerprints," and (3) time involved in the transformations. Trumbore's paper and presentation described the intersection of geochemistry and soil science through the increasing use of isotopes and tracers as tools for separating physical, chemical, and biological processes that operate simultaneously in soils. She noted that tracers are in the "toolbox of soil science," but they are not always used to their maximum advantage.

The tools are available to quantify indicators that address the state fac-

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