Low-Emission Solutions Conference Poster Session

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Participants:

Jessica Chiartas, Nicole Tautges, Kate Scow, UC Davis
Digging Deeper: Identifying Agricultural Management Practices that Balance the Carbon Budget
Soil organic matter dynamics operate on decadal time scales or greater, necessitating long-term experiments, across a diversity of landscapes to identify management practices that promote SOM accumulation. The Russell Ranch Century Experiment, provides a unique opportunity to track long-term impacts of nutrient management, irrigation, and crop rotations on sustainability in maize/tomato and wheat/fallow systems.

Allegra Mayer, Zeke Hausfather, Andrew D. Jones, Whendee L. Silver, UC Berkeley
The potential of agricultural land management to contribute to lower global surface temperatures
Soil organic carbon sequestration through agricultural management could lower global temperature by 0.1°C in 2100 when combined with a low emission trajectory. The results of the research provide a framework for the potential role of agricultural soil organic carbon sequestration in climate change mitigation.

Robert de Ligt, The Mullion Group
FLINTpro - the next generation tool for land sector greenhouse gas reporting, analysis and visualization
Software-as-a-Service FLINTpro is a next generation tool for land sector greenhouse gas estimation and reporting. FLINTpro provides a robust and operational framework for integrating the multitude of data types that are required to estimate emissions. Delivered as a secure cloud-based solution FLINTpro removes historical hardware limitations that typically arise from advanced model simulations.

Maegen Simmonds, Peter Nico and Alan Di Vittorio, Lawrence Berkeley National Laboratory
Landscape Carbon and Greenhouse Gas Modeling to Support Climate Change Mitigation Policy in California's Natural and Working Lands
The California Natural and Working Lands Carbon and Greenhouse Gas Model (CALAND) simulates carbon-based greenhouse gas fluxes (CO_2, CH_4, and black C) across the entire California landscape, delineated by 15 land types, 9 eco-regions, and 9 ownership classes.

Jun Wong and Rory Jacobsen, UC Berkeley
Characteristics of a Low-BECCS path and Model Discrepancies
An analysis using shared socioeconomic pathways helps model how a range of technologies using bioenergy with carbon capture and storage (BECCS) can advance global progress toward reaching 2-degree Celsius warming goals.