



# PALSA 2023

## Friday, July 14, 2023

### Agricultural Engineering & Systems Modeling - Vet Research Tower (9:30 AM - 12:15 PM)

-Conveners: Dean Hesterberg; Gianluigi Botton

time	[id] title	presenter
9:30 AM	[31] Multiscale Image Based Modelling of Plants and Soil	ROOSE, Tiina
10:00 AM	[65] Quantifying water fragmentation within soil pores by dual-energy X-ray CT	Prof. GUBER, Andrey
10:15 AM	[46] Cellular nano-architecture unveiled by tomo-ptychography: perspectives on X-ray coherent imaging to plant biology and agricultural sciences	POLO, Carla Cristina
10:30 AM	Break	
11:00 AM	[21] Achieving global food security by tracing nanoparticle transformations in terrestrial crops using synchrotron techniques	Dr GARDEA-TORRESDEY, Jorge
11:30 AM	[94] Inorganic Nanomaterials: Their Applications and Implications in Agriculture and Food Safety	DHANKHER, Om Parkash
11:45 AM	[47] Micro- to Nano-scale Soil and Rhizosphere Processes Analyzed Using Multiple Beamlines at the Sirius Synchrotron	HESTERBERG, Dean
12:00 PM	[33] Visualization and quantitative evaluation of functional structures of soybean root nodules using synchrotron-based X-ray mCT and X-ray fluorescence	NAKHFOROOSH, Alireza