

Session Program

Aug 5 - 7, 2026



Synchrotron X-rays for Metals in Plants, Soils, and Environmental Systems: Early Science and Community Building at XLEAP

Fundamental processes in plant nutrient homeostasis

Cornell University, Bradfield 101
306 Tower Road, Ithaca, NY 14853, USA Cornell University College of Agriculture and Life Sciences

Wed, August 5

9:45 AM

Fundamental processes in plant nutrient homeostasis

Session |

Location: Cornell University, Bradfield 101, 306 Tower Road, Ithaca, NY 14853, USA Cornell University College of Agriculture and Life Sciences

9:45 – 10:15 AM

Plant interactions with soil composition in the extremophile *Arabidopsis halleri*

Speaker

Ute Kraemer

10:15 – 10:30 AM

Connecting mineral nutrient homeostasis to fertility and crop yield through synchrotron-based XRF microscopy

Speaker

JU-CHEN CHIA

10:30 AM

10:45 AM

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10:45 – 11:00 AM

A tomato under the beam: Tackling the challenges of fresh-tissue SXRF analysis

Speaker

Dr Paco ROMERO

11:00 – 11:15 AM

Toward multimodal synchrotron imaging of pollen wall development in *Arabidopsis*

Speaker

Teagen Quilichini

11:15 – 11:45 AM

Transgenerational effects of water limitation on seed morphology, ionome, and performance under nutrient limiting conditions

Speaker

Prof. David Mendoza-Cozatl

11:45 AM