Workshop for X-ray and neutron imaging applications in soil sciences

17-18 of June 2019, Lund, Sweden

Register here: http://www.linxs.lu.se/events/2019/6/17/linxs-event-workshop-for-x-ray-and-neutron-imaging-applications-in-soil-sciences

Keynote speakers

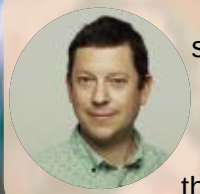
Dr. Jeffrey Warren
(Oak Ridge National Laboratory)

Opportunities in neutron imaging of plants and soils

Prof. Dr. Sascha Oswald
(University of Potsdam)

The essential momentum of neutron imaging approaches to reveal water dynamics at the root-soil interface

Dr. Daniel Uteau Puschmann
(University of Kassel)



Applications of synchrotron radiation tomography to soil sciences– from the microaggregate to the centimeter scale

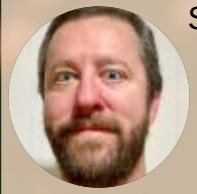
Dr. Juergen Thieme
(Brookhaven National Laboratory)

Exploring soils from the meso- to the nano-scale using X-rays

Dr. Kristin Boye
(SLAC National Accelerator Laboratory)

Illuminating the mechanisms behind contaminant behavior in below-ground heterogeneous redox environments

Prof. Dr. Derek Peak
(University of Saskatchewan)



Synchrotron-based soft, tender, and hard X-ray imaging techniques in soil chemistry

Registration deadline: 29 of May 2019
Registration fee: 800 SEK (400 SEK for PhD students and postdocs)

Bring a poster - win the best poster presentation award!

LINXS MAX IV ESS EUROPEAN SPALLATION SOURCE BECC LUND UNIVERSITY

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Workshop program

Monday, June 17

11:00 – Registration
11:30 – 12:30 – Lunch
12:30 – 13:30 - Opening and a lecture on the basics of X-ray and neutron imaging
13:30 – 14:00 – Coffee break
14:00 – 15:30 – **Jeffrey Warren** (Oak Ridge National Lab), **Sascha Oswald** (Potsdam University), **Daniel Uteau Puschmann** (University of Kassel) on applications of X-ray and neutron tomographic imaging in soil sciences
15:30 – 16:00 – Coffee break
16:00 – 17:00 – Poster session (including 1 min pitches/a teaser to introduce the posters; a prize will be awarded for the best poster)
18:00 – Dinner

Tuesday, June 18

9:00 – 10:30 - **Juergen Thieme** (Brookhaven National Laboratory), **Kristin Boye** (Stanford University), **Derek Peak** (University of Saskatchewan) on applications of X-ray (micro)spectroscopic imaging in soil sciences
10:30 – 11:30 – Group discussions (coffee will be served)
11:30 – 12:30 – Lunch
12:30 – 14:30 - Group discussions (coffee will be served)
14:30 – 15:30 - Panel discussion and final remarks

Excursion to MAX IV (time will be announced)

Organizing committee: working group from Biology Department and LINXS in Lund University - Edith Hammer, Anders Tunlid, Per Person, Milda Pucetaite, Dimitrios Floudas, Luigi Gentile and Michiel Op De Beeck