

AGENDA

On-site training in the application of solid-state NMR and analytical pyrolysis techniques in soil science

Twinning excellence on organic soil amendments effect on nutrient and contaminant dynamics in the subsurface – TwinSubDyn (Grant agreement no 101059546)

DAY 1.	06.02.2023.	
09:00-09:15	Meet up & agenda overview	UNSPMF (dr Snežana Maletić)
9:15 – 11:00	Introduction into the theory of NMR	Dr Heike Knicker
11:00-11:15	Coffee break	
11:15-13:00	Introduction into the theory of NMR	Dr Heike Knicker
13:00-14:00	Lunch break	
14:00-15:00	Introduction to analytical pyrolysis and hyphenated techniques	Dr. José A. González Pérez
15:00-15:15	Coffee break	
15:15-17:00	Introduction to analytical pyrolysis and hyphenated techniques	Dr. José A. González Pérez
DAY 2.	07.02.2023.	
09:00 – 09:15	Agenda overview	UNSPMF (dr Snežana Maletić)
9:15 – 11:00	Interactions during an NMR experiment	Dr Heike Knicker
11:00-11:15	Coffee break	
11:15-13:00	Interactions during an NMR experiment	Dr Heike Knicker
13:00-14:00	Lunch break	
14:00-15:00	Conventional analytical pyrolysis (Py-GC/MS) and High resolution analytical pyrolysis (Py-GC-Q-TOF). Examples of application to biomass and soil science	Dr. José A. González Pérez
15:00-15:15	Coffee break	
15:15-17:00	Conventional analytical pyrolysis (Py-GC/MS) and High resolution analytical pyrolysis (Py-GC-Q-TOF). Examples of application to biomass and soil science	Dr. José A. González Pérez
DAY 3.	08.02.2023.	
09:00 – 09:15	Agenda overview	UNSPMF (dr Snežana Maletić)

9:15 – 11:00	Basic of solid-state NMR - The cross polarization magic angle spinning experiment -Interpretation of solid-state NMR data	Dr Heike Knicker
11:00-11:15	Coffee break	
11:15-13:00	Basic of solid-state NMR - The cross polarization magic angle spinning experiment -Interpretation of solid-state NMR data	Dr Heike Knicker
13:00-14:00	Lunch break	
14:00-15:00	Short Introduction to stable isotope analysis and Pyrolysis compound specific isotope analysis (Py-CSIA). Examples of application to biomass and soil science.	Dr. José A. González Pérez
15:00-15:15	Coffee break	
15:15-17:00	Short Introduction to stable isotope analysis and Pyrolysis compound specific isotope analysis (Py-CSIA). Examples of application to biomass and soil science.	Dr. José A. González Pérez
DAY 4. 09.02.2023.		
09:00 – 09:15	Agenda overview	UNSPMF (dr Snežana Maletić)
9:15 – 11:00	Examples of the application of solid-state NMR spectroscopy in soil science and biochar research	Dr Heike Knicker
11:00-11:15	Coffee break	
11:15-13:00	Examples of the application of solid-state NMR spectroscopy in soil science and biochar research	Dr Heike Knicker
13:00-14:00	Final discussion	All participant

Link for online participation (MS Teams):

https://teams.microsoft.com/l/meetup-join/19%3ameeting_YWUzMGFjMjctZjg2MC00MWFmLTlhYzktZWm1YjE0Nzg4MjFl%40thread.v2/0?context=%7b%22Tid%22%3a%22e7a31644-4c56-46ed-af608b0906c738c0%22%2c%22Oid%22%3a%225c753ce1-8943-4c10-9e28-cb51e72c6d55%22%7d