

Kick-Off Meeting

“Abiotic Lignin Degradation: Key to Litter Transformation after Forest Disturbance?”

14.-15.02.2023, Raum 01-065 (1st floor, south wing), Alte Universität, Bertoldstr. 17, 79098 Freiburg
 Refreshments and travel to/from National Park are free of charge *Please register by 10.02.2023*

Forest disturbance such as drought, storms, and bark beetles are becoming more frequent. However, the ensuing loss of canopy and changes to the microclimate alter litter decomposition and carbon sequestration to unknown extents. The aim of the project is to determine whether abiotic degradation of lignin is the key factor in canopy cover-regulated litter transformation following forest disturbance. Topics covered during the meeting include the project’s structure, methodology, field studies, and laboratory experiments. Invited are project members and partners as well as interested colleagues from the National Park, Universities of Freiburg and Halle, and forest research institutes.

Tuesday, 14.02.

From	To	Topic	Presenters
13:00	13:30	Arrival and Snacks	
13:30	15:30	Welcome & Introduction	
		Overview of Project	K. Stutz
		<ul style="list-style-type: none"> ▪ Background, Question & Hypotheses ▪ Work Program 	
		Overview of Methods (ca. 5-10 minutes per method)	
		<ul style="list-style-type: none"> ▪ UV irradiance ▪ Cupric oxide oxidation (CuO) ▪ UV-Vis spectroscopy (UV-VIS) ▪ X-ray photoelectron spectroscopy (XPS) ▪ Phospholipid fatty acid extraction (PLFA) 	K. Stutz B. Glaser K. Stutz K. Kaiser B. Glaser
15:30	16:00	Coffee break	
16:00	18:00	<i>Field work packages:</i>	
		Study Site	F. Popa
		In-situ decay experiment (WP III)	K. Stutz
		<ul style="list-style-type: none"> ▪ ¹³C-labelled litter ▪ Sampling & Analysis 	
		Seasonal inventory (WP IV)	K. Stutz
		<ul style="list-style-type: none"> ▪ Sampling & Analysis 	
		Public Outreach	K. Stutz
Ab 18:30		Dinner at t.b.d.	

Wednesday, 15.02.

From	to	Topic	Presenters
9:00	11:00	<i>Laboratory work packages:</i> Equipment DHP-Lignin (WP I) <ul style="list-style-type: none"> ▪ Treatments ▪ Sample preparation ▪ Analysis Litter (WP II) <ul style="list-style-type: none"> ▪ Treatments ▪ Sample preparation ▪ Analysis Data Handling & Documentation	K. Stutz K. Stutz K. Stutz K. Stutz
11:00	ca. 12:30	Travel to National Park	
12:30	13:30	Lunch at the Kniebishütte (Straßburger Str. 347, 72250 Freudenstadt-Kniebis)	
13:30	15:30	Field site Field station	F. Popa & S. Gärtner
15:30	ca. 17:00	Travel to Freiburg	
ab 18:30		(Dinner for those interested)	

Additional Information

Suggested accommodation:

Stadthotel Karlstraße 7 79104 Freiburg 0761 3193-0 80 € per night	Gasthaus Löwen Herrenstraße 47 79098 Freiburg 0761 63 88 99-0 50-70 € per night	Motel One Friedrichring 1 79098 Freiburg 0761 1206990-0 90 € per night	Hotel Barbara Poststraße 4 79098 Freiburg 0761 296250 80-100 € per night
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Contact:

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