

## Session BG3.3 Gas exchange between soil, plants and atmosphere

Chat time: 8 May 2020, 08:30–10:15

\*the schedule of the 2 main time slot will be updated directly before the start. displays uploaded after that will be included at the end,

Time	Abstract & Main Author	Title
8:35-8:50	D402   EGU2020-11994 , <b>Mary Lipton</b>	Unraveling the Molecular Mechanisms Underlying the Microbiome Response to Soil Rewetting
	D403   EGU2020-8447 <b>Adrian Haupenthal</b>	Plants possibility to control soil gas exchanges via mucilage.
	D407   EGU2020-11643 <b>Benjamin R.K. Runkle .</b>	Greenhouse gas emissions mitigation with alternate wetting and drying irrigation of rice agriculture
<b>5 min break for finishing answer of open question of the first round</b>		
8:55-9:10	D408   EGU2020-12856 <b>Carme Estruch</b>	Ammonia, carbon dioxide and methane in Mediterranean paddy fields along the 2019 crop season
	D409   EGU2020-4510 <b>Björn Kemmann</b>	Land use change from an annual maize cropping systems to a perennial <i>Silphium perfoliatum</i> crop has u[...]
	D410   EGU2020-21299 <b>Sonja Leitner</b>	Nitrous oxide and methane emissions from cattle manure heaps in Kenya
<b>c 5 min break for finishing answer of open question of the first round</b>		
9:15-9:30	D411   EGU2020-955 <b>Shrijana Vaidya</b>	Detecting small scale spatial heterogeneity and short-term temporal variability of CO <sub>2</sub> flux dynamics[...]
	D413   EGU2020-5181 <b>Sergio Aranda-Barranco</b>	Influence of weed cover on leaf-level CO <sub>2</sub> and H <sub>2</sub> O fluxes in an olive grove
	D414   EGU2020-3559 <b>Pascal Wintjen</b>	Validation of nitrogen dry deposition modelling above a mixed forest using high-frequency flux measu[...]
<b>5 min break for finishing answer of open question of the first round</b>		
9:35-9:50	D415   EGU2020-4938 <b>Heidi Hellén</b>	Emissions and ambient air concentrations of isoprene, monoterpenes and sesquiterpenes at a Northern [...]
	D418   EGU2020-13502 <b>Caroline Plain</b>	Contribution of vegetation to methane emission produced in the soil of an upland forest: a <sup>13</sup> CH <sub>4</sub> -lab[...]
<b>5 min break for finishing answer of open question of the first round</b>		
9:55-10:10	D423   EGU2020-275 <b>Josep Barba</b>	Methane emissions and origin in tree stems in an upland forest
	D425   EGU2020-21139 <b>Jaan Pärn</b>	High CH <sub>4</sub> and N <sub>2</sub> O emissions from soil and stems of disturbed swamp forests in Peruvian Amazon
	D426   EGU2020-11242 <b>Laëtitia Brechet .</b>	Towards a better understanding of soil- and tree stem-atmosphere exchanges of greenhouse gases, i.e.[...]

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Chat time: 8 May 2020, 10:45–12:30

	Time	Abstract & Main Author	Title
Schedule will be updated	<b>10:45-11:00</b>	D429   EGU2020-21793 <b>Soledad Cuezva</b>	On the role of cave-soil in the carbon cycle. A fist approach.
		D430   EGU2020-19189 <b>Martin Maier</b>	Dynamics and effects of soil CO <sub>2</sub> on carbonate dissolution and transport in response to rain[...]
		D431   EGU2020-6689 <b>Kamil Szewczak</b>	Impact of soil incorporation of biochar on radon emission
	5 min break for finishing answers of open questions of the first round		
	<b>11:05-11:20</b>	D432   EGU2020-4570 <b>Yang Ding</b>	Use of laser spectroscopy to evaluate the influence of soil storage on N <sub>2</sub> O emission
		D434   EGU2020-7272 <b>Laurin Osterholt</b>	Development of an in-situ CO <sub>2</sub> gradient sampler
		D435   EGU2020-17686 <b>Hubert Jochheim</b>	The effect of vertical distribution functions on CO <sub>2</sub> efflux and production calculated with the flux [...]
	5 min break for finishing answers of open questions of the first round		
	<b>11:25-11:40</b>	D441   EGU2020-6223 <b>Yin Wang</b>	An open-path QCL-based instrument with sub-ppbv sensitivity for NH <sub>3</sub> eddy covariance measurement
		D445   EGU2020-19924 <b>Carolyn-Monika Görres</b>	First field estimation of greenhouse gas emissions from European soil-dwelling Scarabaeidae larvae t[...]
		D447   EGU2020-13057 <b>Arnaud P. Praplan</b>	The complexity of biogenic boreal emissions through the lens of hydroxyl radical (OH) reactivity
5 min break for finishing answers of open questions of the first round			
<b>11:45-12:00</b>	D448   EGU2020-6896 <b>Nicolas Bras</b>	Does stand age affect methane consumption of forest soil? A study in a chronosequence of sessile oak.	
	D451   EGU2020-2892 <b>Katerina Machacova</b>	Spruce resins constitute a strong sink for methane (CH <sub>4</sub> )	
	D454   EGU2020-6139 <b>Hella van Asperen</b>	Tropical forest CH <sub>4</sub> : from flux chambers to micrometeorological tower measurements	
5 min break for finishing answers of open questions of the first round			
	<b>12:05</b>	Newly uploaded displays	
		General discussion	