

## Novel and quantitative methods for reconstructing continental palaeoenvironments and palaeohydrology

CL1.23 Monday 04 May 10:45 – 12:30 CET

<b>10:45 – 10:50</b>	<b>Sign in, welcome and brief guidance to the session</b>
<b>10:50 – 10:56</b>	<b>Alexandra Turchyn</b> Changes in biogeochemistry recorded in the Lisan formation and the Dead Sea Basin
<b>10:56 – 11:02</b>	<b>Chéïma Barhoumi</b> Holocene climate in Northern Urals (Komi Republic, Russia): a multiproxy approach based on pollen and brGDGTs
<b>11:02 – 11:08</b>	<b>Rebecca Doyle</b> Primary production in a kettle lake (Canada) was not driven by effective moisture over the last ~900 years
<b>11:08 – 11:14</b>	<b>Koen Beerten</b> Reconstructing past hydrology from drift sand archives: possibilities and limitations
<b>11:14 – 11:20</b>	<b>Paolo Scussolini and the Last Interglacial Floods</b> Global hydroclimate of the Last Interglacial: precipitation, river discharge, floods
<b>11:20 – 11:26</b>	<b>Keith Prufer</b> A 1,600 year record of paleoseasonality from the neotropics of Central America and its implications for rainfall predictability in agricultural societies
<b>11:26 – 11:32</b>	<b>Anja Beschmitt</b> Application of novel trace analysis methods for lignin and levoglucosan in flowstone samples from New Zealand during the Holocene
<b>11:32 – 11:38</b>	<b>Julia Homann</b> Trace analysis of levoglucosan and lignin-phenols in speleothems by HILIC-UHPLC-ESI-HRMS: A new method
<b>11:38 – 11:44</b>	<b>Alena Giesche (Sebastian Breitenbach)</b> Rainfall seasonality changes in northern India across the 4.2 ka event
<b>11:44 – 11:50</b>	<b>Roseanna Mayfield</b> Structural ecosystem change in Holocene chironomid assemblages
<b>11:50 – 11:56</b>	<b>Paula Bianchini</b> Paleoclimatic reconstruction studies in lake sediments: major proxies, technical evolution and database
<b>11:56 – 12:02</b>	<b>Cindy De Jonge</b> Biomarker (brGDGT) degradation and production in lacustrine surface sediments: Implications for paleoclimate reconstructions
<b>12:02 – 12:08</b>	<b>Mengmeng Liu</b> A theory of palaeoclimate reconstruction
<b>12:08 – 12:14</b>	<b>Ola Kwiecien</b> What we talk about when we talk about seasonality?
<b>12:14 – 12:20</b>	<b>Stefanie Tofelde</b> Reconstructions of past sediment and water discharges from fluvial-fill terraces in the southern Central Andes of NW Argentina
<b>12:20 – 12:30</b>	<b>Concluding remarks</b>