



# 3<sup>rd</sup> Paleolimnology & Limnogeology International Symposium

## MONDAY 6<sup>TH</sup> 6-10<sup>th</sup> October 2025 - Aix les Bains (France)



### BOURGET AREA

Session name	Speaker	Title
I-2-Bridging Traditional and Cutting-Edge Techniques in Paleoclimate and Paleoenvironmental Reconstruction	Dagneau Mélanie & Bruneton Hélène Zhu Liping Hoehle Marlene Nylund Andreas Ara Angela Val-Peón Cristina Wangritthikraikul Kannika Lanhenke Jan-Frederik Heyer Bjarne Jambrovic Martina Cornet Fiona	<ul style="list-style-type: none"><li>A lacustrine record of hydro-climatic variability during the late Pleistocene in Mediterranean France: ostracod assemblages and sedimentology of the Saint Maximin paleolake</li><li>An overview of the drilling of a 510 m long lake core from the high altitude Nam Co, Tibet</li><li>Automated morphometric analysis using AutoMorph: tracing (eco)phenotypic variability in Tibetan Plateau ostracods</li><li>Bridging Detail and Throughput: Qualitative and Quantitative insights into Sedimentary Organic Matter using ATR-FTIR Spectroscopy</li><li>Continental Sediment Cores as Time Capsules: A Tale of Rapid Climate Transitions in Northeastern Iberia</li><li>Holocene human-environment interactions in coastal ecosystems: an interdisciplinary approach from SW Iberia</li><li>Holocene multi-proxy paleoenvironmental reconstruction from Noboru Umeda peat swamp, Eastern Thailand</li><li>Potential to reconstruct paleoenvironmental changes using lake sediments from Lago della Maddalena, northern Maritime Alps</li><li>Sediment deposition dynamics in a high-altitude lake system in the northern Ecuadorian Andes</li><li>Tracking 10,000 years of environmental change using subfossil Chironomidae and biomarkers from an alpine lake in the High Tatra Mts. (Western Carpathians)</li><li>Validating charcoal morphometry as a proxy for fuel type in Tropical Ecosystems: A Bayesian Approach</li></ul>
	Šolcová Anna Prabhakaran Ramya Bala Yan Dongna  Emily Kallend Alonso Lise Alonso Lise Pérez-Martínez Carmen	<ul style="list-style-type: none"><li>Aquatic macrophytes: The potential for quantitative reconstruction of past lake-water chemistry</li><li>Investigating inter-relationships between humans and the natural environment in deep time at Mudumalai Tiger Reserve, Nilgiris Biosphere Reserve, southern India</li><li>Lake sediment DNA reveals the response of phytoplankton to warming</li><li>Long-term lake and catchment dynamics: using diatoms, sedimentary ancient DNA (SedaDNA), organic matter (OM) and XRF to investigate drivers of change at Rostherne Mere, Cheshire, UK</li><li>Reconstructing agro-silvo-pastoral trajectories in alpine environments using sedimentary archives: a multidisciplinary approach</li><li>Reconstructing Holocene Environmental Dynamics in the Somme Valley Using sedaDNA Approaches</li><li>Temporal succession of bacterial and archaeal communities in a Mediterranean high-mountain lake over the last 430 years using sedimentary ancient DNA</li></ul>

### ANNECY AREA

Session name	Speaker	Title
I-5-Sedimentology and stratigraphy in lake records through Earth history	Cañada-Pasadas Jorge	<ul style="list-style-type: none"><li>Hydrological changes in Laguna Salada playa-lake (El Puerto de Santa María, Cádiz, SW Spain) in response to Holocene climate fluctuations</li></ul>
I-6-Merging outcrop and sediment coring in paleolimnology and limnogeology	Danish Mohd Bradford Maya Spiess Volkhard Ilijanac Nikolina Ivanov Maksim	<ul style="list-style-type: none"><li>Insights from a promising lacustrine record in the Eastern Mediterranean for reconstructing Pliocene hydroclimate: the Erk-el-Ahmar paleolake</li><li>Lateral heterogeneity of Pangean saline lake lithofacies from the Triassic Red Peak Formation of Wyoming, U.S.A.</li><li>Sedimentary and Tectonic Setting of Lake Nam Co, Tibet, From Seismoacoustic Investigations</li><li>Sedimentary records of Holocene paleoenvironments from Visovac Lake (central Dalmatia, Croatia)</li><li>Sedimentation in alpine lakes of Central Caucasus during intensive deglaciation</li></ul>
I-7-From garage tips to very big deals: the never-ending challenge of taking mud from lake bottoms	Fanget Philippe Malet Emmanuel Gallet Raphaël Jouve Guillaume Pignol Cecile Pignol Cecile	<ul style="list-style-type: none"><li>A low-tech drone for lake bathymetric survey</li><li>A reproducible prototype of "travel" mini-coring platform</li><li>An open-source mechanical core-opening bench available for reproduction</li><li>Echoes Compact Sub-Bottom Profiler (SBP): Portable SBP for inland &amp; coastal environments</li><li>Electronic field notebook: a tool to aid scientific coring and data collection: the "Corebook"</li><li>French National Core Repository Portal</li></ul>
VIII-5- Deep-time carbonate-rich lacustrine systems	Adolph Marie-Luise Osácar Cinta Zuriñe Larena Boussagol Pierre	<ul style="list-style-type: none"><li>A preliminary lithostratigraphic framework for a 510-m sediment sequence from Nam Co, Tibet, recovered by the ICDP NamCore Drilling Project</li><li>Inherited vs in situ-formed minerals to discern climatic signatures in a lacustrine record of the Miocene Climatic Optimum, NE Iberia</li><li>Lacustrine-palustrine carbonates in a tectonically active syncline basin (upper Oligocene-Lower Miocene, Trebišovo Formation, Western Pyrenees, N Iberia)</li><li>Quaternary lacustrine carbonate deposits of the Great Basin, USA: Impact of climate, biology, tectonics and substrate</li></ul>
VIII-7- Current and past lakes in planetary bodies of the solar system, and their terrestrial analogues on Earth	Villette Justine	<ul style="list-style-type: none"><li>Paleolakes on Mars: The case of Jezero crater</li></ul>

### LÉMAN AREA

Session name	Speaker	Title
V-1-Advances in lacustrine paleo-earthquake research	Albers Stijn Nicoevich Sylvia Mcglue Michael Yang Huitong Gastineau Renaldo Duross Christopher Chapron Emmanuel Zafar Muhammad Naveed Van Daele Maarten Wils Kathleen	<ul style="list-style-type: none"><li>Are the multiple coeval underwater landslides in the Laacher See infill a record of regional earthquakes?</li><li>Earthquake sedimentary records across varied lacustrine systems: The 1959 M7.3 Hebgen Lake earthquake, west Yellowstone Region, USA</li><li>High-Resolution CHIRP Seismic Reflection Profiles Reveal the Stratal Architecture of Jackson Lake (Wyoming, USA)</li><li>Modelling Seismic Site Response in Lake Basins to Improve Paleoseismic Records</li><li>Paleoseismic records from Lake Iznik (NW Türkiye): Implications for the seismic cycle of the Middle Strand of the North Anatolian Fault</li><li>Paleoseismology of the Great Salt Lake (Utah, USA): Earthquake imprints in a shallow terminal basin</li><li>Reconstructing Lake Bourget tsunami hazard</li><li>Strike-Slip Fault-Generated Paleotsunamis in Lake Iznik (NW Türkiye): Numerical Modeling Corroborated by Coastal Deposits</li><li>The 600 yr Laguna Lo Encañado paleoseismic archive: a shaking record for Santiago de Chile</li><li>Towards quantitative evaluation of the spatiotemporal rupture variability of megathrust earthquakes in south-central Chile using lacustrine sedimentary records</li></ul>
	Cretton Naomi Ortler Marcel	<ul style="list-style-type: none"><li>Holocene paleoseismological record from the Reloncavé Fjord (Chile) and evidence from the 1960 AD Great Chilean earthquake in proglacial Lakes Frias and Mascardi (Argentina)</li><li>Reconstructing Catchment Dynamics and Hazard Cascades in the Eastern Alps: Integrated interpretations from the sedimentary records of Lakes Hallstatt and Altaussee</li></ul>
V-2-Cascading geohazards in lakes and fjords: Documentation, Modelling and Monitoring		
V-3-Paleofloods - Tribute to Bruno Wilhelm	Moernaut Jasper	<ul style="list-style-type: none"><li>Temporal evolution of debris flow and flood activity obtained from the sediments of Toblacher See, a shallow lake in the Dolomites (Italy)</li></ul>

### CÔME AREA

Session name	Speaker	Title
III-1-Furthering the relationship between palaeolimnology and conservation	Noble Paula Qin Bo Gwinneeth Benjamin Ilaria Mazzini	<ul style="list-style-type: none"><li>Biological proxies from Summit Lake record, NV, USA, inform sensitivity to anthropogenic impacts in a changing hydroclimate</li><li>Combining observation, paleolimnology and PCLake model to study lake regime shift and restoration potential in eastern China</li><li>Reconstructing caribou populations and migrations using biogeochemistry</li><li>Unveiling the modern ostracod fauna of Lake Bracciano (Central Italy): biodiversity insights from a strategic freshwater reservoir</li></ul>
	Hohmeier Björn Ojala Antti Zawacka Izabela Opitz Eah Salminen Sarianna Rzodkiewicz Monika Scarlett Zetter Urban Anais Celia Martin-Puertas Apolinarska Karina Bonk Alicja Kallioikoski Maarit Boyll Laura Saarni Saija	<ul style="list-style-type: none"><li>2,500 years of Ethiopian Hydroclimate from Lake Babogaya</li><li>Adjacent lakes with clastic-biogenic varves: A similar response to climate and environmental change?</li><li>Cladocera fauna reflects post glacial water fluctuation and productivity changes of Lake Gorzyńskie (Western Poland)</li><li>Combined analysis of microfossils of continuous and instantaneous lake deposits to refine the seasonal signal of hydro-gravitational hazards in a mid-altitude valley of the southern French Alps</li><li>Drivers of Phosphorus Dynamics and the Extent of Varve Preservation and Hypoxia in Inner Finnish Archipelago Sea Estuary Sediments</li><li>Environmental and trophic evolution of Lake Gorzyńskie (Western Poland) over the last 13,000 years: a multi-proxy study</li><li>Flora and fauna at the British ice margin 19 millennia ago as inferred from sedaDNA</li><li>Hydroclimatic variability during the onset of the Last Interglacial in Lake Van - Implications for the Eastern Mediterranean</li><li>Large spatial variability of facies and varved preservation in small karstic lakes: pitfalls and opportunities for paleoenvironmental reconstruction from Zónar Lake, southern Spain</li><li>Limnological and meteorological drivers of seasonal variability in sediment composition and accumulation rate in varve-forming Lake Gorzyńskie, central Europe</li><li>Long-term feedbacks between fire and lake system from varved sediment in western Poland</li><li>Micro-XRF elemental maps as a tool to measure grain-size variation in spring flood lamina in varved lake Leväjärvi, eastern Finland</li><li>Testing the impact of changing varve microfossils on the stationarity of the calibrated climate-proxy relationship using the climate reconstruction model SCUBIDO</li><li>Varved sediment record reveals seasonally controlled pattern of microplastic transport</li></ul>



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TUESDAY 7<sup>TH</sup> 6-10<sup>th</sup> October 2025 - Aix les Bains (France)



## BOURGET AREA

Session name	Speaker	Title
<b>I-4-Organic geochemistry in lakes: recent methodological developments and applications in lacustrine environments</b>	Tertrais Etienne Antonia Klatt Russo Nicole Li Nannan Fallows Daisy Richter Nora Millet Jules Ossi Keva Marchand Lisa Frison Justine Pulikkal Anchana Martegani Lucia Chavez Lara Claudia Magali Cellino Lorenzo Mateo Beneito Amanda Tertrais Etienne	<ul style="list-style-type: none"><li>A novel siderite correction method applied to Rock-Eval parameters on sediments with low organic matter content.</li><li>Algal lipid distributions and hydrogen isotope ratios as proxies for past phytoplankton community dynamics</li><li>Alkenone Production and Spring Bloom Dynamics in a Swiss Alpine Lake: A Step Towards a Mid-Latitude UK37 Temperature Calibration</li><li>Assessing the Potential of Moss Cellulose (EY18O) from Irish Blanket Bogs for Hydroclimate Reconstruction</li><li>Does temperature drive Holocene methane cycling in a boreal varved lake?</li><li>Environmental transitions recorded by bacteriohopanepolyols: implications for lake biogeochemical cycles in the Azores</li><li>Evaluating the stability of diatom-bound nitrogen isotope ratios using varved lake sediments from Nylandssjön, Sweden</li><li>High organic matter burial during Holocene Thermal Maximum is reflected in the bacterial fatty acid biomarkers in subarctic lake sediments</li><li>High resolution alkenone monitoring in two swiss lakes, ài do alkenones record temperature in mid-latitude lakes?</li><li>Indirect organic carbon measurement through loss-on-ignition in lacustrine sediments: conversion factor assessment and implication for organic carbon accumulation rate.</li><li>Inferences on paleoclimate using geochemical proxies from a temperate mountain peatland in Sikkim, India</li><li>Late Holocene environmental variability in southern Iberia inferred from leaf wax biomarker stable hydrogen isotope ratios from Laguna Grande de Archidona (Malaga, Spain)</li><li>Lipid biomarkers in Late Pleistocene-Holocene lake sediments from Southern Chihuahua Desert, Mexico</li><li>Lipid Biomarkers Reveal Past and Present Dynamics of Methane Oxidizing Bacteria in a Eutrophic Lake</li><li>Modern distribution of GDGTs in the lake water and catchment soils of fäerné lake, The Bohemian Forest: a contribution to paleoenvironmental reconstruction</li><li>Paleo-environmental implications of a Rock-Eval characterization of the sedimentary sequence of the Ngaoundaba volcanic crater, Cameroon</li></ul>
	Engels Stefan Blanchet Cecile	<ul style="list-style-type: none"><li>Open Palaeoecological Data - analysing the past, building foresight (PalaeOpen COST Action CA23116)</li><li>The Varved Sediments Database VARDA: a tool to explore and synchronise high-resolution palaeodimatic records</li></ul>
<b>II-2-II-2-Ecosystem change meets databases: upscaling patterns, ...</b>		
<b>IV-2-How can modeling approaches help us to understand past, present and future lakes ?</b>	Mama Ahmed Naceur Ensafi Moghaddam Tahereh Guillerm Emmanuel Faraon Thomas	<ul style="list-style-type: none"><li>A modeling perspective on hydro-climate variability in dryland lakes,"What is the impact of low- to high-frequency and intensity hydro-climate variability on the rise, development, persistence and demise of Lake Eyre?"</li><li>Documentation, Modelling and Monitoring Trend Analysis of Climate Compound Extreme Indices in South Khorasan, Iran</li><li>Exceptionally fast warming of the Dead Sea: how mixing of hypersaline waters pumps heat from the atmosphere</li><li>Wind-Driven Hydrodynamics in Ephemeral Dryland Lakes: A Numerical Modeling Approach for Kati-Thanda Lake Eyre (Australia)</li></ul>

## ANNECY AREA

Session name	Speaker	Title
<b>IV-4-Hydrothermal and groundwater influences on lacustrine sedimentation and paleoecology: A tribute to Michael Rosen</b>	Zahajská Petra Benavente Cecilia Shaikh Riman	<ul style="list-style-type: none"><li>A community review of global research and methods on the impact of groundwater to lakes</li><li>Hydrogeologic evolution of two springs in the Great Salt Lake Basin (Western US) as modern analogs for underfilled lake basins</li><li>Hydrothermal veins and organic-rich carbonate spring deposits in Lake Gosuite of the Eocene Green River Formation, Bridger Basin, Wyoming</li></ul>
<b>VIII-1-Tectonics, climate, ecology and geomorphology in rift lakes</b>	Bradshaw Julia	<ul style="list-style-type: none"><li>Determining Morphological Response in Benthic Ostracods to Increased Stratification and Low Oxygen Caused by Climate Change in Lake Tanganyika, East Africa</li></ul>
<b>VIII-2-Mountain lakes from extreme environments</b>	Gasiorowski Michal Hou Juzhi Petitjean Lois Spiess Volkhard Dickson Chad	<ul style="list-style-type: none"><li>Dystrophia, Ài permanent or temporary state of a forest mountain lake in the Tatra Mountains (Central Europe)</li><li>Fundamental questions in paleolimnology and paleoclimatology on the Tibetan Plateau</li><li>Recent Dynamics of Chironomid and Invertebrate Assemblages in a Swiss Mountain Lake : Biotic and Geochronological Analyses</li><li>Sedimentary and Tectonic Setting of Lake Issyk-Kul, Tianshan, Kyrgyzstan, from Seismoacoustic Investigations</li><li>The Effects of Rock Glacier Meltwater on Primary Production in an Alpine Lake in the Uinta Mountains, USA: Preliminary Findings</li></ul>
<b>VIII-4-Lake Bourget and cousins</b>	Rapuc William	<ul style="list-style-type: none"><li>Understanding the strontium cycle in Lake Bourget: Insights from isotopic signatures and carbonate precipitation</li></ul>

## LÉMAN AREA

Session name	Speaker	Title
<b>III-2-Using lake sediments to trace soil health and agricultural practices across watersheds</b>	Machemin Gaël Krzynówek Zuzanna	<ul style="list-style-type: none"><li>Land use and paleolimnology. Can we bridge watershed scale changes using archive aerial imagery and sediments cores?</li><li>Sediment geochemistry and ostracods point to progressive change between alternative states in a shallow lake</li></ul>
<b>III-3-Reconstructing the impact of human activities on the environment</b>	Wu Jinglu Ruiz-Fernández Ana Carolina Aranea Alberto Schabetsberger Robert Petit Ambre Cruces Fabiola Schneider Tobias Chaboche Pierre-Alexis Herer Nina Gwineth Benjamin Olivier Maëlis Sienkiewicz Elwira Santelices - Urrutia Camila Verschuren Dirk Saulnier-Talbot Emilie Schmitz Olga Lami Andrea Słowiński Michał M.	<ul style="list-style-type: none"><li>A 200-year hydrological and environmental record from sediment biomarkers of Lake Balkhash, arid Central Asia</li><li>A 210Pb-derived reconstruction of siltation and trace metal fluxes trends in a remote mesotrophic lake: insights from Summit Lake, NW Nevada</li><li>A late Holocene record of environmental changes in Patagonia: identifying sensitive proxies in lake sediments across the Andes (Chile, Argentina)</li><li>A multi-proxy analysis of lake sediments reveals ecosystem dynamics in the Northern European Alps over the last 14,000 years</li><li>Climate and land-use effect on soil trajectories from a small alpine catchment in the southern French Alps</li><li>Diatom assemblages and sedimentological properties to evaluate recent environmental change in lake Laguna Larga (Argentinean Patagonia, 43°S)</li><li>Exploring Medieval European Landscapes Through Sedimentary Faecal Biomarkers</li><li>Influence of decontamination timing on sediment and radiocesium transfer fluxes in mountainous catchments of the Fukushima Prefecture</li><li>Investigating the human settlement of Pacific Islands using molecular proxies</li><li>Linked molecular and isotopic indicators of fire history, population, vegetation and climate change in the Maya lowlands</li><li>Long-term dynamics of fire in the Landes de Gascogne: evidence from palaeoecological records</li><li>Multiple stressor effects on the phyto- and zooplankton communities in a mining lake affected by acid mine drainage</li><li>Reconstruction of the recent environmental history of two North Patagonian lake basins (Futaleufú, Chile): Integrating sedimentary and historical documentary records.</li><li>The African Anthropocene: land-use history in the central Rift Valley of Kenya based on analyses of clay minerals, particle size and charcoal in a continuous lake-sediment record</li><li>The PAGES Human Traces working group: the legacy of pre-Anthropocene human impacts in lake sediment archives</li><li>Using Ostracoda and Foraminifera as tracers of water quality in the uMlalazi estuarine system, South Africa</li><li>Using sediments to track the effects of multiple stressors on two lakes from N. Italy</li><li>Wielbark culture settlement and environmental changes during the Roman period in the Tuchola Forest (northern Poland) - traced in laminated lake sediments</li></ul>
<b>III-4-Tracing anthropogenic contamination in lake sediments: novel methods and applications</b>	Cottin Nathalie Böttcher Michael Ernst Imhanze Faith	<ul style="list-style-type: none"><li>A Methodological Approach to Trace Tire Road Wear Particles in Lake Sediments</li><li>Multi-proxies record redox system and contamination changes in a tropical Lake</li><li>Occurrence and distribution of pollutants in sediment of shallow eutrophic reservoirs in the UK</li></ul>
<b>III-9-Pollen-based land cover reconstruction to study climate and human impact ...</b>	Brisset Elodie Tyler Jonathan Ensafi Moghaddam Tahereh	<ul style="list-style-type: none"><li>A century of agro-pastoral and forest resource management in Central Asia revealed by multiproxy analyses of the Lake Kanbeshbulak sediments</li><li>Climate, fire, vegetation and people: a multidisciplinary approach to the environmental history of Kangaroo Island (Karti/Karta), South Australia</li><li>Detection of Dust impact in a Changing Climate in small-Scale Insights to Understanding Oak Forest decline (Case Study: Kordestan Province)</li></ul>

## CÔME AREA

Session name	Speaker	Title
<b>III-5-Resilience and recovery in lake systems across time and space</b>	Eywindson Katrina Urrea Camila Be'eri-Shlevin Yaron Watts Aspen	<ul style="list-style-type: none"><li>Are Unprecedented Ecosystem Changes in Mountain Lakes Driven by Atmospheric Deposition of Nitrate, Warming Temperatures or Both?</li><li>Do Mining-Impacted Lakes Geochemically Recover over Time?</li><li>Nutrient dynamics of Lake Kinneret (Sea of Galilee) and its watershed from 20 years of monitoring data</li><li>Post-Industrial anthropogenic impacts and subsequent recovery of midge diversity in Filby Broad, East Anglia.</li></ul>
<b>III-7-The coevolution of environments and biodiversity</b>	Łuców Dominika Formáková Aneta Stoof-Leichsenring Kathleen Gregory-Eaves Irene Cumming Brian	<ul style="list-style-type: none"><li>A new genus and three new species of testate amoebae from Mongolia: a next small step towards understanding their biodiversity</li><li>Chironomid-inferred summer mean temperature changes in the Western Balkan region (Lake Prokoško, Bosnia and Herzegovina)</li><li>Ecological trajectories inferred from aquatic communities in arctic glacial lakes over the last 30,000 years discovered by sedaDNA shotgun data</li><li>Protecting the future by learning from the past: Salmon nursery lake ecosystem reconstruction through sedimentary DNA</li><li>The Importance of Seasonal Data in the Interpretation of Paleolimnological Records: Examples of Seasonal Records of Diatom Assemblages from Temperate Region Lake</li></ul>
<b>IV-1-Biogeochemical cycles in the subsurface: molecular and ...</b>	Boussagol Pierre Thomas Camille Vennin Emmanuelle	<ul style="list-style-type: none"><li>Enhanced carbonate production model for temperate stratified lakes</li><li>First insights into the long-term biogeochemical cycle of lake Nam Co,Tibet</li><li>Micrite Formation and EPS degradation in Lake Ilay (Jura, France)</li></ul>
<b>IV-3-Paleolimnological Insights into Carbon Cycling in Lakes</b>	Machut Faustine Ju Jianting Liu Liu Heikkilä Maija	<ul style="list-style-type: none"><li>Long-term effects of forest fires on carbon cycling and aquatic production in boreal lakes of northwestern Quebec, Canada</li><li>Observation of buoys and submerged buoys in Nam Co on the Tibetan Plateau: implications for paleoenvironmental reconstruction and lake-air carbon cycle</li><li>Temperature drives sediment methanogenesis and methane emissions from alpine lakes in Southwest China</li><li>Within-lake differences in recent and Holocene organic carbon burial in boreal lakes</li></ul>



# 3<sup>rd</sup> Paleolimnology & Limnogeology International Symposium

## THURSDAY 9<sup>TH</sup> 6-10<sup>th</sup> October 2025 - Aix les Bains (France)



### BOURGET AREA

Session name	Speaker	Title
I-1-Advances in lake geochronology	Meier Verena Francois Lapointe Guillevic Floriane Albers Stijn Tatiana Pugacheva Brauer Achim	<ul style="list-style-type: none"><li>Cryptotephra quantification in lake sediments: A comparison of two methods applied at a site with distant Laacher See tephra fallout</li><li>Exploring <sup>10</sup>Be as a Novel Chronological Marker for Solar Proton Events Using Varved Sediments</li><li>French polynesian nuclear fallout in lake sediments: a global new time marker for the southern hemisphere</li><li>Influence of volcanogenic CO2 emissions on radiocarbon dating of the sedimentary infill of Laacher See (Germany)</li><li>The application of lead concentrations in Baltic Sea sediments for the core chronology</li><li>The Holocene S1 tephra in the Dead Sea sediments, Äi chronology and seasonality</li></ul>

### ANNECY AREA

Session name	Speaker	Title
VI-1-Lake sediments as recorders of glacier change	Waldmann Nicolas Anderson Lesleigh	<ul style="list-style-type: none"><li>Bells Lake (northern Idaho): a record of postglacial environmental changes in northwestern USA</li><li>Late Pleistocene Glacial Dynamics, Paleohydrologic Drivers, and Ecological Responses through Sediment Records at Fish Lake, Utah</li></ul>
VI-2-Identifying climate extremes from lake archives	Gruszczynska Agnieszka Lowther Richard Perren Bianca Polkowski Tomasz Santonja Camila Gruszczynska Agnieszka Pipik Radovan Parhi Arpita Rigterink Sonja Marina Vidhya Oepen Anastasiya Golovaty Nitay Perren Bianca	<ul style="list-style-type: none"><li>A new high-resolution chironomid record of the Younger Dryas in varved sediments from Lake Perespilno, Eastern Poland</li><li>A new sub-centennial scale lacustrine carbonate (<math>\delta^{13}C</math> and <math>\delta^{18}O</math>) record details climatic instability in the Early Holocene. Preliminary findings from Loch Balnagowan, Lismore, Southwest Scotland.</li><li>BIG Thaw Nepal - gauging the past, present and future of mountain water resources</li><li>Chironomid- and pollen-based quantitative climate reconstructions for the Early Weichselian at Bisingen, northern Germany</li><li>Disentangling the Middle Miocene Climatic Optimum signature from Andean Uplift control of a lacustrine system from Patagonia Argentina</li><li>Environmental Stressors Affecting Chironomidae and Aquatic Communities in a Mediterranean Climate During the Holocene: A Case Study from Lake Sidi Ali, Morocco</li><li>Holocene high-energy events in the Tatra Mts. (Western Carpathians)</li><li>Holocene Hydroclimatic Shifts in Eastern India: Insights from Lake Sediments and Their Connection to North Atlantic Cooling Events</li><li>Increasing aridification during the Late Holocene on the central Arabian Peninsula as reflected by diatom and midge assemblages from the Layla Lakes</li><li>Mid-Holocene hydrological changes in the South Carpathian Mountains inferred by multi-proxy paleoecological study of a subalpine glacial lake and its connection with NAJ and NAO changes</li><li>Palaeoenvironmental record of Holocene variability from a karst lake system in central Saudi Arabia</li><li>Paleoenvironment and paleoclimate interpretation of sedimentological archives from small dune dammed endorheic basins (playas) in the northwestern Negev desert dunefield</li><li>The Wandel Dal Project: An interdisciplinary investigation of human migration and environmental change in Inutoqqat Nunaat, North Greenland</li></ul>

### LÉMAN AREA

Session name	Speaker	Title
VIII-6-Imprints of natural and anthropogenic environmental changes in crater lakes	Bonk Alicja Zahajská Petra	<ul style="list-style-type: none"><li>Anthropogenic fire dynamics and ecological feedbacks in the varved sediments of a crater lake (Holzmaar, Germany)</li><li>Temperature-driven anoxia in Holzmaar during Dansgaard-Oeschger Event 1</li></ul>

### CÔME AREA

Session name	Speaker	Title
III-6-Inferred the Past Drivers and Consequences of Lake Eutrophication in Modern and Ancient Societies	Wietelmann Theresa Tammelin Mira Kohler Paige Ensafi Moghaddam Tahereh	<ul style="list-style-type: none"><li>Assessing sedimentary proxies to reconstruct the occurrence and extent of harmful algal blooms</li><li>Cultural eutrophication of naturally eutrophic boreal lakes</li><li>Holocene Reconstruction of Eutrophication and Hypoxia in Lake Erie</li><li>Studying the social, environmental and cultural change scales of a village in the last half century (Case Study: Kohanz Village, Iran)</li></ul>



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FRIDAY 10<sup>TH</sup> 6-10<sup>th</sup> October 2025 - Aix les Bains (France)



BOURGET AREA		
Session name	Speaker	Title
<b>II-3-Sediment inorganic geochemistry: methodological developments and applications in paleolimnology</b>	Martinez-Dyrzo Haydar Kylander Malin Henderson Andrew Tjallingii Rik Ceriotti Giulia Moreno Allende Valentina Dellinger Mathieu Urrutia Roberto Ponomarenko Ekaterina Schmidhauser Noé	<ul style="list-style-type: none"><li>• Aeolian Inputs in the Mayab (Mexico) as an Environmental Buffer During the Maya Megadroughts</li><li>• Anchoring Elemental Interpretations of XRF Core Scanning Data: A New Approach Using Spectral Methods</li><li>• Application of laser induced breakdown spectroscopy to lake sediments</li><li>• Chronology of the Lago Grande di Monticchio MON16 composite record using chemical characterization of XRF core scanning data</li><li>• Developing sensing microfluidic approaches to unfold microscale biogeochemical processes in lake sediments</li><li>• Integrating XRF Core Scanning with Multi-Proxty Paleolimnological Analyses in two neighboring lakes: Unraveling Climate Dynamics in south-central Chile (~39°) over the past 40,000 years</li><li>• Quantifying past chemical weathering using lithium isotopes in lacustrine carbonates: the Lake La Thuile case study (French Alps)</li><li>• Sedimentological and geochemical response to native forest changes during drought events in a Chilean pre-Andean lake (36°S)</li><li>• The sedimentary environment of the Baltic Sea during the Late Quaternary based on geochemical proxies and foraminiferal study</li><li>• Tracking 20th century anthropogenic impacts on redox dynamics and lake productivity: A transect study in a hypertrophic meromictic varved lake (Swiss Plateau)</li></ul>
	De Batist Marc Benito Xavier Sosnina Irina	<ul style="list-style-type: none"><li>• A 7,500-year-long record of extreme wave events from tidal Lake Hamana, south-central Japan</li><li>• A Holocene perspective of deltaic pulse events combining paleoecology and Earth System modeling</li><li>• Middle-to-Late Holocene palaeoenvironmental reconstruction of the Nemunas River Delta from diatom and mollusc data</li></ul>

ANNECY AREA		
Session name	Speaker	Title
<b>VI-3-Understanding southern South America (SSA) climate: local to regional climate signals with modern and paleo data</b>	Silva-Aguilera Crisanto Achaga Romina	<ul style="list-style-type: none"><li>• Late Quaternary sedimentary record in the Bajargua Saline Lake (Venezuela): Implications for paleoenvironments in the semi-arid Caribbean</li><li>• Multi-proxy late Holocene paleoenvironmental reconstruction of Ñe Luan lake, Patagonia, Argentina</li></ul>
<b>VII-1(Sub)Antarctic lakes as recorders of local to ...</b>	Perren Bianca	<ul style="list-style-type: none"><li>• High frequency variability of the Southern Hemisphere Westerlies at subantarctic Macquarie Island over the last 7000 years.</li></ul>

LÉMAN AREA		
Session name	Speaker	Title
<b>IX-1-Beyond just research data: The value of outreach, education, equality, diversity and inclusion around lakes</b>	Martinez-Abarca Rodrigo Pérez Liseth Thomas Camille Gwineth Benjamin	<ul style="list-style-type: none"><li>• A guide to outreach geosciences on social media: the case of Divulgación Terróloga</li><li>• Identifying and discussing crucial topics within limnogeology and paleolimnology early-career researcher communities: questionnaires, shared experiences, and interactive discussions for awareness and action</li><li>• Sedimentologica : a scholarly-led and free-for-all scientific journal to publish your lake sediment research</li><li>• Visualising ancient Maya environmental change</li></ul>
<b>VII-2-Lakes in the Neotropics: Archives of paleoclimate and environmental change</b>	Musazzi Simona Lo Edward Martinez-Abarca Rodrigo Chernet Samuel Getachew E.galindo Paula Piacsek Patricia Piacsek Patricia Ramirez Jimenez Angela Maria Pérez Liseth Ibarra Morales Diana Piacsek Patricia Rodríguez Laura Jazmin Bellet Emeline Rodriguez-Zorro Paula	<ul style="list-style-type: none"><li>• Climate-driven ecological shift in diatom assemblages over four centuries in a shallow lake</li><li>• Deciphering Lake Ypacarai: a new lacustrine paleo-record from Paraguay</li><li>• Half-precession cycles and orbital-scale hydroclimate variability in the low-latitude Atlantic over the past 1.3 million years: connecting marine and continental records.</li><li>• Late Glacial-Holocene paleoclimate of Africa's, largest afro alpine ecosystem extracted from Central Lake, Bale Mountains Southeastern Ethiopia</li><li>• Late Holocene biodiversity changes and ecological turnover in two karst lakes with contrasting trophic states in the Lacandon forest, southern Mexico</li><li>• Late Quaternary Palynology and Geochemistry of Lacustrine Records from the Central-West Region of Brazil</li><li>• Paleoclimatic And Paleoenvironmental Reconstruction of The Late Pleistocene And Holocene From Lacustrine Sedimentary Records Of The Peruacu River Basin, Brazil</li><li>• Paleoeological reconstruction based on diatoms from sediment cores of San Vicente, Mururito, and Los Kioskos lakes (Colombian Orinoquia)</li><li>• Paleolimnological Studies in the Northern Ecuadorian Andes: A Contribution to Inter- and Transdisciplinary Research on Land Use under Climate Change in the Neotropics</li><li>• Recent history of eutrophication and environmental change of a Neotropical Lake on eastern Mexico.</li><li>• Reconstitution of Climate Variability in The Central East of Brazil from the Analysis of Lake Core</li><li>• Standardization of Paleoenvironmental Information for the Quaternary in Mexico and Its Implications for Paleoclimate in Central and Southern Mexico over the Last 18,000 Years</li><li>• Using organic compound to infer climatic changes on Madagascar based lacustrine paleoclimatic archives</li><li>• Vegetation turnover during the Late Quaternary in Lago de Tota, Boyacá, Colombia</li></ul>

CÔME AREA		
Session name	Speaker	Title
<b>III-8-Anthropocene lake ecosystem dynamics in fast-changing Asia</b>	Yan Dongna Lone Aasif Ge Yawen Dugerdil Lucas	<ul style="list-style-type: none"><li>• Human impacts on lake microbial eukaryotic communities during the Anthropocene</li><li>• PAHAD-3K: Unraveling Holocene hydrological dynamics from the Indian Himalayas combining lake sediment and moraine records</li><li>• Spatiotemporal heterogeneity of microplastic occurrence and its driving mechanisms in a typical shallow lake of Northern China</li><li>• Unravelling Holocene climate, human impact and hydrological variations and their impact on lake ecosystem dynamics: a multi-proxy case study from Lake Fazilman, Uzbekistan</li></ul>
<b>VIII-8-Arctic paleolimnology across permafrost - limnoscapes -</b>	Emery Baptiste Pascaud Loek Roman Matej Tuccillo Mia Armstrong Isaac	<ul style="list-style-type: none"><li>• Colloidal forms of organic carbon, major and trace elements along a bog-fen gradient of thawing permafrost during early spring in arctic Sweden</li><li>• Emergent thermokarst lakes as sentinels of permafrost thaw in a High Arctic landscape</li><li>• Mid-Late Holocene environmental sedimentary archive in landslide-dammed Garmaksla Lake, Svalbard</li><li>• Photosynthetic pigments across boreal to tundra permafrost lakes in northwest Canada: Modern observations of pigment sources, environmental drivers, and sedimentary preservation</li><li>• Setting the (eco)tone: can chironomids reliably reconstruct temperature in subarctic treeline lakes?</li></ul>