

3rd Paleolimnology & Limnogeology International Symposium

TUESDAY 7TH

6-10th October 2025 - Aix les Bains (France



	ROOM BOURGET				
Time start = end	Session name	Speaker	Title		
08:30 = 08:45 08:45 = 09:00 09:00 = 09:15 09:15 = 09:30 09:30 = 09:45 09:45 = 10:00	1-2-Bridging Traditional and Cutting-Edge Techniques in Paleoclimate and Paleoenvironmental Reconstruction	Tyler Jonathan Laakkonen Aliisa Gázquez-Sánchez Fernando Latapy Cécile Subba Rohan Bengt Christopher	Centennial scale variability in the East Asian Monsoon during the last glacial period: a new oxygen isotope record from Lake Suigetsu, Japan Evolution of diagenetic minerals is Nam Co, a high-altitude Tibetan lake Paleo-hydrological reconstructions from gypsum hydration water in playa-lakes sediments: two case studies in the southern Iberian Peninsula Environmental magnetism to reconstruct fire severity around the crau plain (southeastern france) during the holocene Leveraging paleoenvironmental reconstruction: An Al-based approach in proxy development Fundamental understanding of phosphate-oxygen isotope composition in lake paleorecords		
10:00 = 10:30	ECR AWARD TALKS (2)				
10:30 = 10:45			COFFEE BREAK		
10:45 = 11:00 11:00 = 11:15 11:15 = 11:30 11:30 = 11:45	I-3-Method developments and applications of micrometer-scale geochemical imaging techniques on lake sediments	Żarczyński Maurycy Cederstrøm Jan Magne Martini Margherita Kury Milena	 Lake productivity and mixing regime changes in Lake Gorzyńskie during the last 13,250 years: a new hyperspectral record from Western Poland Computed Tomography can reveal annual sedimentation rates in Lake Guynemere, Kerguelen Island Geo_DECT: a new tool to visualize dual-energy CT data and study lacustrine sediments Fine particles investigation in lake sediments through a broadened Convolutional neural network training set with expanded Hyperspectral data 		
11:45 = 12:00 12:00 = 12:15	I-4-Organic geochemistry in lakes: recent methodological developments and	Bunin Elizabeth Mackay Helen	 Can fecal lipid biomarker records be used to identify periods of population pressure in Paleolithic societies? A case study from Late Pleistocene Paleolake Hula (northern Israel) Evaluating lacustrine faecal steroid biomarkers as semi-quantitative proxies of reindeer and human population change in northern Finland 		
12:15 = 12:30	developments and	Tuccillo Mia	 Sedimentary pigments reveal complex ecosystem responses of primary producers to mid-Holocene anoxia in a small low-Arctic Greenland lake 		
12:30 = 13:30			LUNCH BREAK		
13:30 = 13:45 13:45 = 14:00 14:00 = 14:15 14:15 = 14:30 14:30 = 14:45 14:45 = 15:00 15:00 = 15:15 15:15 = 15:30	I-4 Organic geochemistry in lakes: recent methodological developments and applications in lacustrine environments	De Jonge Cindy Hernandez Armand Ke Sai Abrook Ashley Mayr Christoph Van Der Bilt Willem G.m. Fernández Pérez María Eugenia Giguet-Covex Charline	 Holocene environmental change in Rotsee and its impact on sedimentary carbon storage Holocene plant wax n alkane record from Lake Peixão (Portugal): Key findings and climate implications Evaluation of 3-OH FAs and brGDGTs as palaeoclimate proxies in lakes of the French Alps and southern Chile Multi-proxy assessment of seasonal bias in temperature sensitive biomarker reconstructions across the Holocene Overcoming pitfalls and challenges in oxygen isotope analysis of chironomid larval head capsules Sub-centennial scale hydroclimate change in northern Svalbard during the deglacial and Early Holocene from hydrogen isotopes of sedimentary plant waxes and algal lipids Hydroclimatic variability over the Last Millennium Revealed by ΔDwax and Δ¹³Cwax in two Northwestern Iberian lakes Integrating analyses of different plant sedaDNA fractions to enhance ecological and environmental insights 		
15:30 = 16:00			COFFEE BREAK		
16:00 = 16:15 16:15 = 16:30 16:30 = 16:45 16:45 = 17:00 17:00 = 17:15 17:15 = 17:30	IV-2-How can modeling approaches help us to understand past, present and future lakes ?	Desgué Olivia Jenny Jean-Philippe Qin Bo Kibblewhite Tom Storms Joep Chauveau Benoit	 Integrating paleolimnology and modelling to reconstruct long-term hypoxia and lake-use-driven ecosystem changes in perialpine lakes Exploring multiscale lake processes through paleo-data and dynamic modeling: A Lake Geneva case study Combining paleolimnology and ecosystem modelling approach to quantify human impacts on lake regime shift Evaporative geochemical models: A simple tool for evaluating and reconstructing hydrologic budgets in modern and ancient lake systems Understanding Hydrodynamics and Sediment Transport in Data-Sparse Lakes Using Numerical Modelling: Insights from Lakes Hulun, Buir and Turkana A Derivative of the Köppen-Geiger classification tailored for Numerical Modeling of the Lacustrine Ecosystems 		
17:30 = 18:00			SYMPOSIUM GUEST TALK		
18:00 = 19:30	POSTER SESSION (I-4, II-2 AND IV-2) + REFRESHMENTS				
_			ROOM ANNECY		
Time start = end	Session name	Speaker	Title		

18:00 = 19:30	POSTER SESSION (I-4, II-2 AND IV-2) + REFRESHMENTS						
ROOM ANNECY							
Time start = end	Session name	Speaker	Title				
08:30 = 08:40 08:40 = 08:45 08:45 = 09:00 09:00 = 09:15 09:15 = 09:30 09:30 = 09:45 09:45 = 10:00	IV-4-Hydrothermal and groundwater influences on lacustrine sedimentation and paleoecology: A tribute to Michael Rosen VIII-1-Tectonics, climate,	Conveners Shaikh Riman Ariztegui Daniel Renaut Robin Owen Richard Scott Jennifer Benavente Cecilia	 Tribute to to Michael Rosen Hydrothermal veins and organic-rich carbonate spring deposits in Lake Gosiute of the Eocene Green River Formation, Bridger Basin, Wyoming Groundwater flow rules fluid-microbe-mineral interactions in two Patagonian lacustrine basins The role of hot springs in sedimentation in the Kenya Rift lakes Tectonic and magmatic controls on hydrothermal and meteoric waters in the South Kenya Rift Hydrothermal influence on Pliocene rift-lakes in Afar, Ethiopia and Baringo, Kenya: Evidence from the Hominin Sites and Paleolakes Drilling Project (HSPDP) drill-core Limnogeologic analysis of two Triassic rift lake basins in SW Gondwana 				
10:00 = 10:30	ECR AWARD TALKS (2)						
10:30 = 11:00			COFFEE BREAK				
11:00 = 11:15 11:15 = 11:30 11:30 = 11:45 11:45 = 12:00 12:00 = 12:15 12:15 = 12:30	VIII-1-Tectonics, climate, ecology and geomorphology in rift lakes	Domingos Luz Leandro Mcglue Michael Soreghan Michael Dommain René Poirier Perrine Scholz Christopher	Influence of the Indian Ocean Dipole and ENSO on Lake Tanganyika during the Common Era Historical patterns of sedimentation in Nsumbu National Park (Zambia), Lake Tanganyika Time averaging of shell beds in Lake Tanganyika as a climate recorder and anthropogenic indicator Hydrological connectivity of Kenya Rift Lakes as a driver of lake level fluctuations and biotic interchange during the African Humid Period Fluvio-lacustrine evolution of a rift axial system: example of the Lower Omo Valley (Turkana Depression, Ethiopia) over the past four million years Beyond the Drill Core: Assessing Interactions of Hydroclimate Variability and Extensional Processes Across the Lake Malawi (Nyasa) Rift, East Africa				
12:30 = 13:30	LUNCH BREAK						
13:30 = 13:45 13:45 = 14:00	VIII-1-Tectonics, climate, ecology and geomorphology in rift lakes	Qi Li Mischke Steffen	Source-to-sink coupling and Characteristics of sedimentary differential response for multi-episode rifting cycles in lacustrine rift basin The stable oxygen and carbon isotope record from 'Ubeidiya in the Dead Sea transform: early Pleistocene lake level and climate changes in the region				
14:00 = 14:15 14:15 = 14:30 14:30 = 14:45 14:45 = 15:00	VIII-4-Lake Bourget and cousins: perialpine lakes as the cradles and future of limnogeology and paleolimnology	Chapron Emmanuel Arnaud Fabien Ariztegui Daniel Jenny Jean-Philippe	Lake Bourget: one of our great P.A.L. (Peri Alpine Lake) From climate to human shaping of the Earth critical zone: a quarter-century of geochemical investigation of Lake Bourget Holocene sediment Intracellular Amorphous Calcium Carbonate Inclusions in Microorganisms from Lake Geneva: A Novel Biomineralization Process with Geochemical and Limnogeological Implications Lake Bourget in the OLA Lake Observatory Network: A context for developing integrated approaches across multiple timescales				
15:00 = 15:15 15:15 = 15:30	VIII-2-Mountain lakes from extreme environments	Cartier Rosine Peng Jia	Ecosystem responses of a French Mediterranean mountain lake to climate change and soil dynamics since the last deglaciation as inferred from bioindicators and geochemical proxies Diatom biodiversity dynamics and their relationship with carbon burial in mountainous lakes of central China during the past 200 years				
15:30 = 16:00		rengola	COFFEE BREAK				
16:00 = 16:15 16:15 = 16:30 16:30 = 16:45 16:45 = 17:00 17:00 = 17:15 17:15 = 17:30	VIII-2-Mountain lakes from extreme environments	Llodrà-Llabrés Joana Llodrà-Llabrés Joana Damber Maja Rioual Patrick Styllas Michael Xiaohuan Hou	Subfassil pigments in a high-altitude lake (Sierra Nevada, Spain): tracking algal changes over 400 years and the unprecedented era we may be facing Kaploring Holocene climatic and environmental dynamics in a Sierra Nevada's (Southern Spain) alpine lake: a diatom perspective Chironomid Assemblages as Indicators of Recent Environmental Change in Swiss Mountain Lakes Disentangling the effects of earthquakes and climate change on a 250-year diatom paleo-limnological record from the Yala Mountain region, southeastern Tibetan Plateau Late Holocene flood and African dust deposition dynamics in the alpine critical zone of Greece: New insights from sedimentary records of the highest alpine lakes of Findos Mountains Abrupt temperature shift on the central-eastern Tibetan Plateau triggered agriculture patterns ~3800 years ago				
17:30 • 18:00			SYMPOSIUM GUEST TALK				

POSTER SESSION (IV-4, VIII-1, VIII-4 AND VIII-2) + REFRESHMENTS



17:30 = 18:00

18:00 • 19:30

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			ROOM LÉMAN
Time			
start • end	Session name	Speaker	Title
08:30 • 08:45	III-2-Using lake sediments to trace	Kurek Josh	Connections between watersheds, sediments, and fish to understand legacy DDT pollution
08:45 • 09:00	soil health and agricultural practices	Foucher Anthony	Ten years of land degradation in Mayotte: Evidence from sediment cores and eDNA reveal rapid erosion and ecosystem shifts (2011-2022)
09:00 = 09:15	across watersheds	Caballero Margarita	Recent human-induced ecological changes in a «pristine» Neotropical karst lake of southern Mexico
09:15 • 09:30 09:30 • 09:45	III-3-Reconstructing the impact of	Gastineau Renaldo	Human-initiated autocyclic delta failures in Lake Brienz (Switzerland)
09:45 • 10:00	human activities on the environment	Blas Valero Garces Rapuc William	Looking for early human impacts on the Canary Islands: the lacustrine record Human and climate impacts on the alpine Critical Zone over the past 10,000 years
	environment	Marchegiano Marta	No Science Without Scientists: From Climate Reconstruction to Building a Sustainable IAL/IPA Community
10:00 • 10:30	ECR AWARD TALKS	Muiruri Veronica	Quaternary diatoms and palaeoenvironments of the Koora Plain, southern Kenya rift
10:30 ■ 11:00			COFFEE BREAK
11:00 • 11:15			
11:15 • 11:30		Mazure Théo Morlock Marina	Quantifying soil erosion during the Holocene: contributions from the integration of modeling and lake sediment archives High-mountain pastoralism influences wild mammal habitats in the Late Holocene
11:30 • 11:45	III-3-Reconstructing the impact of	Schmidhauser Noé	High-mountain pastoralism influences wild mammal nabitats in the Late Holocene Climate and human drivers: Reconstructing aquatic productivity and anoxia over the past 11 kyr BP in two neighboring lakes (Swiss Plateau)
	human activities on the	Brisset Elodie	Paleohydrological reconstructions from lake and wetland sediment archives of southwest Asia, investigating the links between climate changes, land use and
11:45 • 12:00	environment	Disset Liodie	water management strategies
12:00 = 12:15		Shumilovskikh Lyudmila	Human impact on terrestrial and aquatic ecosystems in the mid-Kama region, cis-Urals (Russia)
12:15 = 12:30		Ricucci Cristina	Mid-to-late Holocene plant biodiversity and human influence within an Italian coastal wetland: insights from Lago di Burano pollen record (Tuscany)
12:30 = 13:30			LUNCH BREAK
13:30 = 13:45	III-3-Reconstructing the impact of	Rodriguez-Zorro Paula	Late Holocene Paramo and Andean Forest dynamics inferred from Laguna Colorados, Colombia
13:45 • 14:00	human activities on the environment	Roulé Elia	Climate and anthropization in Newfoundland: A multi-proxy reconstruction of landscape changes around L'Anse aux Meadows
14:00 = 14:15	III-9-Pollen-based land cover	Łuców Dominika	Landscape topography and coastal proximity influenced wildfire in Central Newfoundland (Canada)
14:15 = 14:30	reconstruction to study climate and	Julien Andréa	Reconstruction of the regional dynamics of vegetation and human activities in the North-Western Alps over the last 7 millennia
14:30 = 14:45	human impact	Li Kuan-Hua	Late Holocene vegetation and climate change reconstructed from multi-proxy analysis of a mountain wetland in southern Taiwan
14:45 = 15:00	III-3-Reconstructing the impact of	Kołaczek Piotr	Cultural eutrophication of Lake Gorzyńskie (western Poland) since prehistoric times – insights from a multi-proxy study of varved sediments
15:00 = 15:15	human activities on the	Engels Stefan	How long is long-term? Comparing decadal- and centennial-scale insect diversity dynamics
15:15 = 15:30	environment	Schwalb Antje	Effects of the Thirty Years' War on 17th-Century Central European aquatic and terrestrial ecosystems
15:30 = 16:00			COFFEE BREAK
16:00 = 16:15	l	Kaucha Karolina	Impact of the Elblag Canal construction on the ecosysthem of selected lakes in Ilawa Lake District
16:15 = 16:30		Watts Aspen	Injact of the Librag Canal constitution on the ecosystem of selected takes in laws case basis. Disentangling the drivers of Insect Armageddon in the UK using sub-fossis thironomics.
16:30 = 16:45	III-3-Reconstructing the impact of	Jones Evan	The ecological impacts and spatial footprint of mining activities on lakes from First Nations territories in Yukon, subarctic Canada
16:45 • 17:00 17:00 • 17:15	human activities on the environment	Ducruet Romain	A 50-year Record of Soil Erosion Dynamics: Pre- and Post-Wildfire Observations from Sediment Coring Methods in Contrasting Ecosystems (Var, Southern France)
17:15 17:30	environment	Cumming Brian Lansing Dylan	An Integrative Assessment of Changes in Nutrients and Aquatic Production in Large Reservoirs and Lakes in Western Canada Tracking Fish Habitat Changes Linked to Anthropogenic Stressors Using Chironomid and Chaoborus subfossils in Ontario Lakes
	CVMADOCIUMA CUEST TALK		In-situ observations of deltaic sedimentary rocks by the Perseverance rover at Jezero crater, Mars
17:30 • 18:00	SYMPOSIUM GUEST TALK	Mangold Nicolas	e institutious of deflate sedimentary rocks by the reseverance rover at 322ero chater, wars
18:00 = 19:30			POSTER SESSION (III-2; III-3; III-4; III-9) + REFRESHMENTS
10.00 - 17.00			
			ROOM CÔME
Time	Session name	Speaker	ROOM CÔME
start - end	Session name	Speaker	ROOM CÔME Title
start = end 08:30 = 08:40	Session name	Tibby John	ROOM CÔME Title The sensitivity of globally significant subtropical Australian dune lakes to past, present and future climate
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SYMPOSIUM GUEST TALK POSTER SESSION (III-5, III-7 AND IV-1, IV-3) + REFRESHMENTS