



Final Program

SUNDAY 27

- 10:00-13:00 Registration/Accreditations.
17:00-19:00 Registration/Accreditations.
19:00-21:00 Ice-Breaking Party.

MONDAY 28

MORNING 8:30 -13:00

Room PALACE

- 08:30-10:00 Opening Ceremony.
10:00-11:00 PLENARY SESSION: Daniel Ariztegui. "Unveiling environmental memories using lacustrine microbialites".
11:00-11:30 Coffee Break

FS31 - Rapid environmental change in tropical and subtropical lakes during the Holocene

- 11:30-11:45 Rasbold, G.G., Pessenda, L.C.R., De Oliveira, P.E., Alves, E.E.N., Silva, D.R., Carvalho, H., Bendassolli, J.A., Montes, C.R., Melfi, A.J. Late Holocene limnological changes of a freshwater lake, Lower Nhecolândia region, Pantanal, Brazil.

- 11:45-12:00 Caballero M., Vázquez-Romero M.G., Lozano-García S. Climatic variability during the last 2,000 years in a tropical sub-humid environment in central Mesoamerica.
- 12:00-12:15 Hoppenbrock, J., Bücken, M., Gallistl, J., Flores Orozco, A., Aigner, L., Moser, C., Pita de la Paz, C., García García, C.E., Razo Pérez, J. A., Buckel, J., Pérez, L. Evaluation of Lake Sediment Thickness from Water-Borne Electrical Resistivity Tomography Data.
- 12:15-12:30 Bücken, M., Flores Orozco, A., Gallistl, J., Steiner, M., Aigner, L., Hoppenbrock, J., Glebe, R., Morales Barrera, W., Pita de la Paz, C., García García, C.E., Razo Pérez, J. A., Buckel, J., Hördt, A., Schwalb, A., Pérez, L. Multi-method land and water-borne geophysical survey sheds light on the sudden drying of karst lakes in southern Mexico.
- 12:30-12:45 King, L., Courtney-Mustaph C.J., Cuenca-Cambronero M., Kische M., Heiri O., Seehausen O., Matthews B. Aquatic invertebrate assemblage changes since the refilling of Lake Victoria.
- 12:45-13:00 Parth S., Mehta B., Mazzini I., Russell J., Waldmann N. Late Holocene hydroclimate changes inferred from the sediments of crater Lake Karif Shawran, southern Yemen, using chemical, physical and biological variables.

Room MASTER

FS13 - Linking the past and the present of Pampean shallow lakes to infer the future

- 11:30-11:45 Vásquez, C., Sottile, G., Stutz, S. Quantitative analysis of pollen and vegetation richness relationship at the southeastern Buenos Aires coastal dune system.
- 11:45-12:00 Sánchez, M. L., Gayol, M. P., Babino, L., Izaguirre, I., Dogliotti, A. I. Changes in the turbidity of shallow Pampean lakes during the last 30 years using remote sensing data.
- 12:00-12:15 Seitz, C., Vélez, M.I., Perillo, G.M.E. Environmental evolution of the lakes in the arid-semiarid Pampas of Argentina over the last millennium.
- 12:15-12:30 Sánchez Vuichard, G., Mengo, L., Halac, S., Stutz, S. Paleoenvironmental history of Siete Lomas shallow lake (Southeast Pampa plain, Argentina) during the last 1000 years.
- 12.30-12.45 Stutz, S., Piovano, E. Book presentation: Pampean Lakes.

Room ZONA

FS29 - Human Traces in the aquatic sedimentary record

- 11:30-11:45 Anselmetti, F.S., Perler, D., Benguerel, S., Brem, H.J., Gilliard, F., Hornung, J., Keiser, T., Leuzinger, U., Schaller, S., Vogel, H., Wessels, M. 170 mysterious neolithic mounds on the shallow shelf of Lake Contance and their relation to paleoenvironmental change.

- 11:45-12:00 Henderson, A.C.G., Mackay, H., van Hardenbroek, M., Langdon, P.G., Fonville, T., Cavers, G., Crone, A., Alsos, I., Davies, K., Whitehouse, N., Brown, A.G. Biomarker evidence for the construction and occupation of crannogs in Scotland and Ireland from lake sediment records.
- 12:00-12:15 Mackay, H., Henderson, A.C.G., Bull, I.D., Whelton, H.L., Bigelow, N.H., Edwards, M.E., Reuther, J.D., Potter, B.A., van Hardenbroek, M. Application of faecal sterols to document human presence in the Alaskan landscape: a cautionary tale.
- 12:15-12:30 Camperio, G., Argiriadis, E., Lloren, R., Ladd, S. N., Nelson, D.B., Prebble, M., Krentscher, C., Dubois, N. Molecular traces of human arrival in Remote Oceania.
- 12:30-12:45 Lloren, R., Cochrane, E., Augustinus, P., Prebble, M., Dubois, N. The voyage of humans in the South Pacific: the view from Lake Lanotō, Sāmoa.
- 12:45-13:00 Kabaciński, J., Hill, Ch., Apolinarska, K. Paleolakes of Gebel Ramlah in the context of the Middle/Late Pleistocene and Holocene human habitation of the Southern Egyptian Desert.

13:00-14:00 Lunch

AFTERNOON 14:00-18:00

Room MASTER

FS16 - Sensitive high-altitude aquatic ecosystems on mountains and plateaux

- 14:00-14:15 Valero Garcés, B., Vicente de Vera García, A., Galofré, M., Moreno, A., Pey J. The REPLIM Network: monitoring and paleolimnology to assess past global changes in the Pyrenees.
- 14:15-14:30 Gąsiorowski, M., Wojewódka-Przybył, M., Gebus-Czupyt, B., Sekudewicz, I. How climate changes affect Daphnia population in a dystrophic mountain lake – a stable isotope record.
- 14:30-14:45 Ramachandran, D., Pipík, R., Šurka, J., Starek, D., Milovský, R., Sočuvka, V., Uhlík, P., Vidhya, M., Žatková, L., Milovská, S., Biroň, A., Hamerlík, L., Chamutiová, T., Bitušík, P. Lacustrine infill indicate heterochronous deglaciation of the Tatra Mts. Lakes (Slovakia).
- 14:45-15:00 Bonilla-Flores, M., Echeverría-Galindo, P., Frenzel, P., Pérez, L., Börner, N., Dulias, K., Wang, J., Schwalb, A. Heterocypris schwalbi n. sp. a high altitude asexual microcrustacean ostracod from Nam Co, Tibetan Plateau.
- 15:00-15:15 Echeverría-Galindo, P., Rigterink, S., Massaferró, J., Pérez, L., Wünnemann, B., Hoelzmann, P., Kang, W., Börner, N., Schwarz, A., Peng, P., Wang, J., Zhu, L., Schwalb, A. Chironomid (Insecta: Chironomidae) responses to hydrological changes during the Current Warm Period in Nam Co, Tibetan Plateau.
- 15:15-15:30 Börner, N., Jochum, K.P., Stühr, M., Abstein, M., Plessen, B., Frenzel, P., Wang, J., Zhu, L., Schwalb, A. Changes in moisture availability and weathering intensity

recorded in Tibetan Plateau lakes by rare earth elements in ostracod shells.

15:30-15:45 Heine-Fuster, L., Aránguiz-Acuña, A., Veliz D. Physical and chemical variability as a structuring factor of the diversity in plankton and benthos of Salares of the Andean Altiplano.

15:45-16:15 Coffee Break

16:15-16:30 Porcel, S., Saad, J.F., Sabio y García, C., Saraceno, M., Roesler, I., Lancelotti, J. Plankton communities under water level fluctuations in two lakes of the arid Patagonia.

16:30-16:45 Vignoni, P.A., Jurikova, H., Plessen, B., Tjallingii, R., Córdoba, F.E., Liebetrau, V. Geochemistry of a high-altitude hypersaline Andean lake and associated carbonate deposits (Laguna del Peinado, Southern Puna Plateau, NW Argentina).

16:45-17:00 Abril-Ramírez, G., Monsalve-Marín, C.A., Parra-Sánchez, L.N., Torres-Orozco, J.L. Neoentomology of the temporal and permanent lagoon systems of the Sierra Nevada del Cocuy, Cordillera Oriental, northern Andes, Colombia

17:00-17:15 Godoy-Aguirre, C., Frugone-Álvarez, M., Fuentealba, M., Tejos, E., Contreras, S., Valero-Garcés, B., Latorre, C. Volcanism drives fire regimes in a high Andean lake during the last 1400 years (Laguna Nieblas 36°S).

17:15-17:30 Guaña, D., Celi, J., Basantes-Serano, R. Spatiotemporal evolution of High Andean waterbodies in the inner-tropics explained by morphological parameters.

17:30-17:45 Torres Orozco, J., Abril, G., Monsalve, C., Parra, L. Modeling complexity and chaos in the high andean mountain: GIS, Big Data and AI applied to climate variability.

Room PALACE

FS12 - Lake biodiversity changes through time and space

14:00-14:15 Watson, V., Jacks, F., Medeiros A.S., Kehler, D. Informing freshwater management through paleoecological assessment: The case of Sable Island National Park Reserve, Canada.

14:15-14:30 Roberts, L.R., Lowis, H., Stommel, N., Benito, X., Holmes, J.A., Sayer, C.D., Leng, M.J., Horne, D.J., Jourdan, A-L., Panizzo, V.N., Davidson, T.A., Kelly, A. Towards disentangling the effects of salinity and eutrophication in shallow lakes.

14:30-14:45 Khanzada, T., Materne, M., Bennion, H., Wharton, G., Sayer, C. Combining palaeo- and contemporary ecology to assess biodiversity in aquatic environments.

14:45-15:00 Lamb, A.N., Saros, J.E., Bruesewitz, D., Countway, P., Culbertson, C., Kinnison, M.T., Sleith, R. Connecting changes in cyanobacteria biodiversity with warming winters in Maine, USA, using photosynthetic pigments and sedDNA.

- 15:00-15:15 Pannes, A., Massaferro, J., Charqueño Celis, F., Rigterink, S., Echeverría Galindo, P., Schwalb, A., Pérez, L. Littoral zone Chironomidae (Diptera) in sediments of karst lakes from the Lacandón Forest, Chiapas, Mexico.
- 15:15-15:30 Sapelko, T., Ignatyeva, N., Kuznetsov, D., Ludikova, A., Guseva, M., Revunova, A. Large Lake biodiversity changes through Holocene time according novel palaeolimnological records.
- 15:30-15:45 Gazizova, T., Sapelko T. Macrophyte pollen in the lakes history studies.

15:45-16:15 Coffee Break

- 16:15-16:30 Fontana, S.L. Late-Holocene dynamics of interdunal fresh water environments at the southern coast of Buenos Aires Province, Argentina.
- 16:30-16:45 Mateo-Beneito, A., Florescu, G., Vasiliev, I., Tátosová, J., Chiverrell, R., Heiri, P., Kuneš, O. Multi-proxy temperature reconstruction and paleoenvironmental conditions during the late glacial and Early Holocene in the Černé Lake, Central Europe.
- 16:45-17:00 Rodríguez-López, L., Lami, A., González, L., El Ouhabi, M., Fagel, N., Alvarez, D., Schmidt, S., Urrutia, R. Fossil pigments and environmental conditions in the oligotrophic Laja Lake in the Chilean Andes.
- 17:00-17:15 García-Arriola, A., Roy, P.D., Vargas-Martínez, I.G., Girón-García, M.P. Wetter early Bølling–Allerød and early Holocene in central Mesoamerica of southwest Mexico: comparison of proxies and possible forcing.
- 17:15-17:30 Berdnikova, A., Makshaev, R., Tkach, N., Yanina, T. Stable oxygen and carbon geochemistry for the first Caspian Sea stack.

Room ZONA

FS34 - Paleoenvironment and paleoclimate records from long-lived lakes and paleolakes

- 14:00-14:15 Bauersachs, T., Russel, J.M., Schwark, L. Heterocyte glycolipids: novel tools to obtain high-resolution climate records from long-lived lakes.
- 14:15-14:30 Waldmann, N., Greenlee, J., Dean, S., Hall, C., Yadav, A., Park-Boush, L., Castañeda, I. Reconstructing Pliocene environmental conditions in the Levantine Corridor (Near East) with a multi-proxy study on a lacustrine record.
- 14:30-14:45 Rigterink, S., Kotrys, B., Krahn, K.J., Turner, F., Pannes, A., Urban, B., Schwalb, A. A chironomid-inferred summer air temperature reconstruction from the Middle Pleistocene (~ 300,000 yr BP) site Schöningen 13 II, Northern Germany.
- 14:45-15:00 Maitituerdi, A., Verschuren, D., Van Daele, M., Van der Meeren, T., Wolff, C., Meyer, I., Pierdominici, S., Sharif, N., Swai, V., Lane, C., Noren, A., Olago, D., Kasanzu, C., Sinninghe Damsté, J., Haug, G., De Batist, M., Waldmann, N.

Depositional processes and climate-change signatures recorded in the 250-kyr sediment record of Lake Chala, equatorial East Africa.

- 15:00-15:15 Baxter, A., Peterse, F., Verschuren, D., Sinninghe Damsté, J. Establishing the reliability of GDGT-based climate proxies in the 250-ka Lake Chala record by integrating basin evolution information.
- 15:15-15:30 Avendaño, D., Caballero, M., Ortega-Guerrero, B., Lozano-García, S. The diatom record from Lake Chalco, central Mexico: a 150ka record of climatic and environmental changes.
- 15:30-15:45 Martinez-Abarca, R., Abstein, M., Schenk, F., Perez, L., Bauersachs, T., Schwalb, A. Millennial hydrological variability in the northern Neotropics during MIS3-2 archived in Lake Petén Itzá sediments.

15:45-16:15 Coffee Break

- 16:15-16:30 Pérez, L., Kraatz, N., Schlecht, M., Bonilla-Flores, M., Echeverría-Galindo, P., Martínez-Abarca, R., Charqueño-Celis, F., Brenner, M., Schenk, F., Bauersachs, T., Schwalb, A. Sex, size and quantity matters in the Neotropics: the ostracode record of ancient Lake Petén Itzá, Guatemala.
- 16:30-16:45 Mayr, C., Lücke, A., Stojakowits, P., Wissel, H., Ilyashuk, B. P., Ilyashuk, E. A., Bauersachs, T., Heiri, O., Reimer, P., Diersche, V., Zolitschka, B. Interstadial-stadial climate variability during MIS 3 recorded in the Nesselstalgraben paleolake (German Alps).
- 16:45-17:00 Marchegiano, M., Peral, M., Venderickx, J., Martens, K., García-Alix, A., Claeys, P. Clumped-isotope thermometer applied on ostracod shells: a new proxy to identify continental climate changes.
- 17:00-17:15 Velez, M.I., Metcalfe, S.E., Salgado, J., Hooghiemstra, H., Benito, X., and Escobar, J. Fúquene Lake: a window to the last 300 k years of limnological change in response to climate and the arrival of early Americans.

POSTER SESSION 18:00-20:00

Room MASTER

- 1 FS2- Weinberger, R., Alsop, G.I., Levi, T., Marco, S. Detecting coseismic horizontal slip in lacustrine sediments with implications for the completeness of paleo-seismic records.
- 3 FS2- Molenaar, A., Wils, K., Ramisch, A., Van Daele, M., Huang, J.-J.S., Strasser, M., De Batist, M., Pino, M. Soft-sediment deformation structures as natural seismograph
- 5 FS2- Cottet, J., Villarosa, G., Outes, V. New Mocho-Choshuenco explosive events identified in Laguna Carirriñe sediment cores, Northern Patagonia, Argentina.

- 7 FS2- Moreno, V., Abarzúa, A., Moernaut, J., Melnick, D., Vega, R. Sedimentary record of synchronous crater collapses in Espejo and Reloj lakes (South-Central Chile): evidence for a strong intraslab or crustal earthquake in the 13-14th Century?
- 9 FS12- Kallend, E., Ryves, D.B., Evans, J. Tracking long-term environmental change and anthropogenic stressors: using lake sediment records to investigate human impact since the Mesolithic-Neolithic transition.
- 11 FS12- Echeverria, M.E., Bamonte, F.P., Marcos, M.A., Sottile, G.D. Postglacial vegetation dynamics and environmental conditions of southwest Patagonia Argentina (49° S; 72° W). Pollen and plant macrofossils analysis.
- 13 FS12- Buczko, K., Korponai, J., Veres, D., Karátson, D., Magyari, E.K. Use of diatoms for disentangling of climate and tectonic forcing in the development of the last volcanic lake of Carpathians during the Last Glacial Maximum and deglaciation (Lake St. Anne, Romania).
- 15 FS13- Costamagna, I., Halac, S.R., Mengo, L., Pisani, N., Ruiz, M., Piovano, E.L. Identifying the influence of environmental drivers throughout the 20th - 21st centuries in the paleolimnological record of a Pampean lake (Argentina).
- 17 FS13- Pisani, N., Piovano, E., Stutz, S. The sedimentary and palynological record of the Monte Lake, Buenos Aires, Argentina.
- 19 FS16- Cavagna, E.I., de Porras, M.E., Moreiras, S.M., Barberena, R., Maldonado, A. High-Andean paleoenvironmental dynamics in the Central Andes of Argentina (35°S) during the last 2700 yrs.
- 21 FS16- Pérez, A., Massaferro, J., Charqueño, F., Porcel, S., Amezcua, M., Untermann, F., Lancelotti, J., Mayr, C. Extreme climates, extreme habitats: a paleoecological study in Lake EL Sello (-46.9234°, -71.3374°), the volcanic Buenos Aires Plateau, southern Patagonia.
- 23 FS16- Maldonado, A., de Porras, M.E. Late Quaternary paleoclimatic implications of subtropical Andean lake pollen records (30-34°S).
- 25 FS16- Blanco, E., Díaz, L., Ceballos, J., Salinas, A., Hernández, C. Monitoring lakes and wetlands in the Colombian High Andes.
- 27 FS29- Saulnier-Talbot, É., Boyle, J., Chawchai, S., Chen, G., Massaferro, J., Mills, K., Moyle, M., Omuombo, C., Penny, D., Dubois, N. The PAGES Human Traces working group: developing tools and knowledge to gain a better global perspective of anthropogenic impacts using sedimentary archives.
- 29 FS34- Chevalier, M., Gosling, W.D., Hooghiemstra, H. A 270,000-year-long probabilistic quantitative temperature reconstruction from Laguna Fùquene, Colombia.
- 31 FS34- Gobbo, S.R., Bertini, R. J. Revision of *Lychnothamnus barbosai* occurrences.
- 33 FS5- Harning, D., Sacco, S., Ardenghi, N., Raberg, J., Thordarson, T., Sepúlveda, J., Shapiro, B., Geirsdóttir, Á., Miller G. Redox state impacts the preservation and interpretation of lipid biomarker and ancient DNA proxies in high latitude lake sediments: A case study from northeast Iceland.
- 35 FS6- Bonk, A., Tylmann, W., Makohonienko, M. Human-induced vegetation fires derived from Lake Lubińskie sedimentary record.

- 37 FS8+FS22- Briones, D., Guerra, L., Moreno, P.I. Vegetation and climate evolution in Central Isla Grande de Chiloé (42°S) during the last glacial maximum and the last glacial termination.
- 39 FS8+FS22- Guerra, L., Briones, D., Moreno, P.I. Limnogeology by the end of the last ice age in Isla Grande de Chiloé, northwestern Patagonia.

Room PALACE

- 41 FS8+FS22- Musotto, L.L., Fernández, M., Borromei, A.M., Ponce, J.F., Coronato, A., Rydberg, J. Middle to Late Holocene environmental changes in the fuegian steppe (northern Tierra del Fuego, Argentina) based on multiproxy analyses from Laguna Amalia.
- 43 FS8+FS22- Merino-Campos, V., Sottile, G.D., de Porras, M.E., Tonello M.S. Vegetation response to fire and volcanic disturbances since the Late Pleistocene in the Southern Patagonian Andes (49°S).
- 45 FS8+FS22- Paredes Goñez, B., Abarzúa, A., Martel-Cea, J. Fire and vegetation dynamics in the Nahuelbuta mountain range during the Holocene.
- 47 FS15- DeLuca, L., Villarosa, G., Beigt, D., Gómez, E. A first landslide-induced tsunami generation mapping tool in the Argentinean North Patagonian lakes.
- 49 FS15- Losano, N., Cottet, J., Villarosa, G., Beigt, D., Outes, V. Event stratigraphy along Las Piedritas watershed, northern Patagonian Andes, Argentina.
- 51 FS19- Ríos, L., de Porras, M.E., Moreiras, S.M., Gómez, L., D'Ambrosio, S. Environmental variability of urban endangered wetlands of western central Argentina (Mendoza, 33°S) during the last 2200 yrs.
- 53 FS21- Sienkiewicz, E., Gaşiorowski, M., Sekudewicz, I. Stable isotope signals followed the changes in lake productivity in two alpine lakes.
- 55 FS21- Fuentealba, M., Latorre, C., Aránguiz-Acuña, A., Contreras, S., Frugone-Álvarez, M., Gayó, M., Messeguer-Ruiz, O., Sarricolea, P. Past, present and future of megadroughts in high Andean lakes of northern and central Chile.
- 57 FS23- Santelices-Urrutia, C., Cruces López, F., Araneda, C. A., Schmidt, S., Alvarez, D., Ulloa-Almonacid, M., Palma-Soto, C. Diatoms and sedimentological parameters to study recent environmental changes in a small lake of Chilean Patagonia.
- 59 FS23- Echeverria, J., Álvarez, D., Santelices, C., Orozco, G., Fagel, N., Vega, I., Schmidt, S., Araneda, A., Urrutia R. Characterization of tephra in two Chilean lakes and its implications on the geochronology for the last millennia.
- 61 FS23- Werne, J.P., Scott, W.P., Lei, Y., O'Beirne, M.D., Tejos, E., Araneda, A., Moscoso, J., Strong, D.J., Caballero, M., Correa-Metrio, A., Pérez, L., Schwalb, A., Macario-González, L., Cohuo, S., Lozano-García, S., Ortega-Guerrero, B., Contreras, S. Branched GDGTs from lake surface sediments: Testing global and local paleotemperature proxy calibrations.
- 63 FS28- Brignone, G., Romero, M., Piovano, E., Van Wyk De Vries M., Ito, E., Shapley, M. Paleolimnological evidence of post-LIA glacial fluctuations in Canal de Los Témpanos, Patagonia.

- 65 FS32 + FS33- Mengo, L., Halac, S., Costamagna, I., Foray, G., Loizeau, J-L., Deón, J., Chiavassa, S., Piovano, E. Disentangling the evolution of trophic state of San Roque reservoir (Córdoba, Argentina) by paleolimnological reconstruction and land-use history.
- 67 FS35- Larena, Z., Baceta, J.I., Murelaga, X. Palaeoenvironmental reconstruction of the upper Eocene lacustrine-palustrine facies of Loza-Moraza Formation, Miranda-Trebiño piggy back basin, Western Pyrenees, N Spain.
- 69 GS2- Leontev, P., Repkina, T., Krekhov, A., Vyatkin, E., Orlov, A., Lugovoy, N., Subetto, D. Sea level changes and coastal aeolian processes on the Gorlo Strait coast (The White Sea, Russia) in the Holocene.
- 71 GS5- Barbosa, A., Villarosa, G., Beigt, D. Automatic lake's bottom detection from GPR B-scans using convolutional neural networks.

TUESDAY 29

MORNING 8:30-13:00

Room MASTER

FS2 - Lacustrine records of geological and hydrological hazards

- 8:30-8:45 Vondrák, D., Kletetschka, G., Svecova, E., Hrubá, J., Štorc, R., Hrstka, T., Heurich, M., van der Knaap, W.O., Stuchlík E. Sediments of Bohemian Forest lakes (Central Europe) show evidence of a high-temperature event at the Allerød-Younger Dryas transition.
- 8:45-9:00 Bran, D.M., Lozano, J.G., Almaraz, F., Winocur, D., Restelli, F., Bunicontró, S., Lodolo, E., Baradello, L., Gutiérrez, Y., Tassone A.A. A high-resolution seismic investigation of active faulting in lakes of Patagonia.
- 9:00-9:15 Wils, K., Molenaar, A., Moreno Allende, V., Montalva, G., Vega, R., Vanneste, K., Pino, M., Urrutia, R., Van Daele, M., De Batist, M., Melnick, D., Moernaut, J. A continued long history of earthquakes and Chilean lakes.
- 9:15-9:30 Noble, P., Archer, C., Michetti, A.M., Sagnotti, L., Fiorindo, F., Piovesan, G., Mensing, S. Paleoseismic record from the Rieti Basin; a seismically-active, low-relief area in central Italy.
- 9:30-9:45 Martini, M., Francus, P., Di Schiavi Trotta, L., Després, P. Dual-energy CT: a new perspective to reveal the inner structure of sediments according to mineralogical and/or porosity changes in 3D.
- 9:45-10:15 **ECR's Awards : Simon Belle and Kathryn Hagan**
- 9:45-10:00 Belle, S., Nilsson, J., Delcamp D., Otsig, E., Kisand, V. Use of stable isotopic composition of chitinous remains to unravel the contribution of biogenic methane to benthic consumers in boreal lakes.

10:00-10:15 Hargan, K., Emphasizing paleolimnology's role in conservation biology

10:15-10:45 Coffee Break

FS15 - Subaqueous mass wasting in natural and artificial lakes: triggers, development and impacts

10:45-11:00 Moernaut, J., Wiemer, G., Sammartini, M., Van Daele, M., Fabbri, S., Kopf, A., De Batist, M., Strasser, M. In-situ geotechnical analysis of translational landslides in Lake Villarrica and Lake Lucerne: new insights in slope stability and frontal emplacement style.

11:00-11:15 Villarosa, G., Chapron, E., Outes, V., Beigt, D., Ariztegui, D., Gomez, E. Lacustrine records of seismo-volcanic events in Andean Patagonia.

11:15-11:30 Amat, P., Villarosa, G., Beigt, D., Outes, V., Barboza, A., Cottet, J. Disturbance events recorded in the sedimentary infill of Lago Guillermo, Parque Nacional Nahuel Huapi, Argentina.

11:30-11:45 Beigt, D., Villarosa, G., De Luca, L., Barbosa, A., Gómez, E.A., Raniolo, L.A. Coastal instability associated to gravitational processes in large Patagonian lakes: a study of recent events.

Room PALACE

FS23 - 2Kyr Lacustrine proxies of southern South America: understanding climate and anthropogenic impacts

8:30-8:45 Pincheira Risso, V., Flores-Aqueveque, V., Villaseñor, T., Moreno, P. Reconstruction of the southern westerly winds core intensity during the Late Holocene based on aeolian particles of lacustrine sediments of Southern Patagonia (~51°S).

8:45-9:00 Fagel, N., Pedreros, P., Alvarez, D., Israde Alcantara, I., Vega Alay, C.I., Namur, O., Araneda, A., Schmidt, S., Lepoint, G., Urrutia, R. Climatic and tectonic control on lacustrine sedimentary supplies over the last millennia in Chilean Patagonia (Lake Esponja 45°S).

9:00-9:15 Auboiron, J., Alvarez, D., Araneda, A., Pedreros, P., Urrutia, R., Fagel, N. Lacustrine record of last millennia precipitation from lake Esponja and lake Bertrand of northern Chilean Patagonia (72°W).

9:15-9:30 Scott, W.P., Werne, J.P., Contreras, S., Araneda, A.E., Tejos, E. A Common Era climate reconstruction at Lago Frío (Northern Patagonia, Chile): testing novel geochemical proxies.

9:30-9:45 Contreras, S., Werne, J.P., Scott, W.P., Araneda, A., Tejos, E., Moscoso, J. Leaf waxes from lake surface sediments in southern South America: testing a hydroclimate/vegetation proxy along a strong climate gradient

9:45-10:00 Sepúlveda-Zúñiga, E., Maidana, N.I., Villacís, L.A., Sagredo, E.A., Moreno, P.I. Environmental changes during the past millennium in northwestern Patagonia (41°S) inferred from a high-resolution diatom record.

10:00-10:15 Araneda, A., Ulloa-Almonacid, M., Alvarez, D., Cruces, F., Torrejon, F., Pedreros, P., Schmidt, S., Fagel, N., Santelices-Urrutia, C., Contreras, S., Werne, J., Urrutia, R. A multiproxy sediment record of the last 200 years in Lake Llanquihue (Southern Chile): looking for productivity proxies and its usefulness in normative tools.

10:15-10:45 Coffee Break

FS24 - Paleolimnology of high-latitude lakes: sensitive archives of past environmental change

10:45-11:00 Biskaborn, B.K., Pfalz, G., Kröger, T., Hébert, R., Pestryakova, L.A., Stoof-Leichsenring, K.R., Diekmann, B., Meyer, H., Subetto, D.A., Syrykh, L.S., Bouchard, F., Hughes-Allen, L., Sonke, J., Herzsuh, U. Diatom responses to Late Quaternary climate changes and feedbacks to organic carbon accumulation in Arctic lakes.

11:00-11:15 Mayfield, R., Strandberg, N., Wooller, M., Turner, S., Edwards, M., Whiteside, J.H., Davies, K., van Hardenbroek, M. Holocene methane emissions from high latitude Alaskan lakes.

11:15-11:30 Orozco, L., Jokelainen, A., Salonen, S., Plociennik, M., Arppe, L., Heikkilä, M. Holocene hydroclimate and its influence on carbon cycling of a northern boreal lake.

11:30-11:45 Hazukova, V., Saros, J.E., McGowan, S., Juggins, S., Anderson, N.J.A. Disentangling ecologies of key diatom taxa in West Greenland lakes using paleo- and neolimnological approaches

Room ZONA

FS17 - Linking Land and Water: Paleolimnological Reconstructions connecting Land Use with Limnological Change

8:30-8:45 Hillman, A.L., Vining, B.R., Pollack, E., Rachel Handloser, R. Pre-Colonial and Colonial landscape disturbance recorded in Laguna Sausacochoa, Peru.

8:45-9:00 Klamt, A.M., Poulsen, S.P., Odgaard, B.V., Hübener, T., McGowan, S., Jensen, H. S., Reitzel, K. Holocene lake phosphorus species and primary producers reflect catchment processes in a small, temperate lake.

9:00-9:15 Moyle, M., Boyle, J.F., Bennion, H., Chiverrell, R.C. A first critical evaluation of two independent methods for reconstructing past lake water TP concentrations: 170 years of agreement at Crose Mere, UK.

9:15-9:30 Boyle, J., Moyle, M. Sediment-inferred lakewater total phosphorus inference (SI-TP): where it works and why.

9:30-9:45 Jacques, O., Reinhard, P. Impacts of asbestos mining activities on lake ecosystem insights from a multi-proxy paleolimnological investigation.

9:45-10:00 Sivarajah, B., Campbell, L., Smol, J.P., Vermaire, J., Kurek, J. Complex ecological legacies of past gold mining activities in lakes of Atlantic Canada.

10:00-10:15 Benavente, M., Hernández, A., Sáez, A., Raposeiro, P., Gonçalves, V., Pla-Rabes, S., Bao, R., Andrade, M., Richter, N., Ritter, C., Prego, R., Ruiz-Fernández, A.C., Sanchez-Cabeza, J.A., Trigo, R., Viaplana-Muzas, M., Giral, S. Disentangling the geologic, human and climate drivers influencing sediment deposition in volcanic lakes on the Azores Archipelago.

10:15-10:45 Coffee Break

10:45-11:00 Libera, N., Rühland, K.M., Kurek, J., Campbell, J., Jones, A., Blais, J., Kissinger, J.A., Meyer-Jacob, C., Smol, J.P. Assessing the long-term impacts of the mink fur industry on lakes on Nova Scotia, Canada.

11:00-11:15 Magyari, E.K., Pálfi, I., Pósfai, M., Buczkó, K., Demény, A., Czuppon, Gy., Szabó, Z., Korponai, J., Szalai, Z., Veres, D., Arnaud, F., Falus, Gy., Bihari, Á. Stable isotopes, biogenic calcite crystal composition and biotic remains were used to infer Holocene paleoenvironmental conditions in Lake Balaton, the largest shallow waterbody in Central Europe.

11:15-11:30 Nguyen, A.V., Patterson, R.T., Galloway, J.M. Paleolimnology of meromictic Teapot Lake, Ontario, inferred using palynological and geochemical variables.

11:30-11:45 Waters, M.N., Brenner, M., Curtis, J.H. Farming, fire and phosphorus led to Late Holocene cyanobacteria blooms in tropical and subtropical lakes.

12:00-13:00 PLENARY SESSION: Ana M. Abarzúa. "Building bridges between disciplines for the conservation of ecosystems".

13:00-14:00 Lunch

AFTERNOON 14:00-18:00

Room MASTER

FS1 - Lake outburst floods (LOFs): characteristics, imprints and risks

14:00-14:15 Jeanneret, P., Moreiras, S.M., Orgeira, M.J., Correas-Gonzalez, M. Evidence of a Holocene outburst flood from a landslide-dammed lake, Laguna Blanca, San Juan, Argentina.

- 14:15-14:30 Correas-Gonzalez, M., Moreiras, S. M., Mergilli, M. Risk analysis and reconstruction of the 1934 glacial lake outburst flood event in the Plomo basin (33°S), Central Andes of Argentina.
- 14:30-14:45 Colavitto, B., Allen, S., Winocur, D., Guillet, S., Muñoz-Torrero Manchado, A., Gorsic, S., Dussailant, A., Stoffel, M. New insights on GLOFs conditioning and triggering mechanisms in the Patagonian Andes.
- 14:45-15:00 Bertrand, S., Vandekerkhove, E., Mauquoy, D., McWethy, D., Reid, B., Stammen, S., Saunders, K.M., Torrejón, F. Neoglacial increase in high-magnitude Glacial Lake Outburst Flood frequency (Baker River, Chilean Patagonia, 47°S).
- 15:00-15:15 Quesada, A., Colavitto, B. GLOF event in the Turbio river basin in June 2017 (North Patagonian Andean Range, NW Chubut, Argentina): triggers and impacts.

15:30-16:00 Coffee Break

FS8+FS22 - Lacustrine archives of southern South America: Reconstructing the challenges of the living and non living worlds throughout the Quaternary

- 16:00-16:15 Zwier, M., Van der Bilt, W.G.M., Bakke, J., Van der Putten, N., Bjune, A.E. Palynological evidence of Holocene climate variability and Southern Hemisphere Westerly Wind dynamics in the sub-Antarctic.
- 16:15-16:30 Charqueño, F., Mayr, C., Pérez, L., Dubois, N., Massaferro, J. Searching for the Little Ice Age in the last ~900 yrs record of the shallow lake Laguna Polo, Patagonia, Argentina.
- 16:30-16:45 Villacís, L.A., Maidana, N.I., Moreno, P.I. A diatom perspective on the evolution of the Southern Westerly Winds over southwestern Patagonia since ~14 ka.
- 16:45-17:00 Moreno, P.I., Méndez, C., Villacís, L.A., Alloway, B.V. Fires and rates of change in the temperate rainforests of northwestern Patagonia since ~18 ka.

FS35 - Ancient Lake Basins

- 17:00-17:15 Carroll, A.R., Smith, M.E. An integrated lacustrine record of warm climate dynamics: the Green River Early Eocene Climatic Optimum project (GREECO).
- 17:15-17:30 Mancuso, A.C., Krapovickas, V., Benavente, C.A., Marsicano, C.A., Bohacs, K. Integration of tetrapod-track taphonomic modes and taphonomic pathways with the Lake-basin type model.
- 17:30-17:45 Benavente, C.A., Bohacs, K.M., Irmis, R.B., Power, M., Mancuso, A.C. Modern analogs for discharge and through-flow underfilled lake basin types.

Room PALACE

FS24 - Paleolimnology of high-latitude lakes: sensitive archives of past environmental change

- 14:00-14:15 Van der Bilt, W., D'Andrea, W., Oppedal, L., Zwier, M., Bakke, J., Bjune, A. Isotope-based southern westerly winds reconstruction from South Georgia reveals stable Holocene until Common Era intensification.
- 14:15-14:30 Arnaud, F., Bellet, E., Crosta, X., Crouzet, C., Develle, A-L., Giguët-Covex, C., Grossi, V., Guédron, S., Makou, M., Ménot, G., Pignol, C., Piot, C., Plessier, A., Sabatier, P., Sarret, G. A Holocene-length multi-proxy record of climate change and volcanic activity on Kerguelen Islands.
- 14:30-14:45 Bertoglio, F., Piccini, C., Giralt, S., Urrutia, R., Antoniades D. Microbial communities as sedimentary indicators of anthropogenic impact on Fildes Peninsula (King George Island, Maritime Antarctica).
- 14:45-15:00 Stoof-Leichsenring, K.R., Parfumo, A., Huang, S., Harms, L., Pestryakova, L.A., Biskaborn, B.A., Herzschuh, U. Arctic terrestrial ecosystem change over the last 54,000 years revealed by sedimentary ancient DNA on a lake sediment core from Far East Russia.
- 15:00-15:15 Klanten, Y., Lapointe, A-M., Culley, A., Vincent, W.F., Antoniades, D. Climate-mediated microbial shifts in lakes from northernmost Ellesmere Island, High Arctic Canada.
- 15:15-15:30 Álvarez-Manzaneda, I., Rühland, K.M., Campbell, M.A., Hargan, K.E., Duda, M.P., Smol, J.P. Is it possible to study eider populations from Canadian Arctic by applying paleolimnological techniques to their nests?

15:30-16:00 Coffee Break

- 16:00-16:15 Smol, J.P., Rühland, K.M., Michelutti, N., Evans, M. From small tundra ponds to Canada's "Northern Great Lakes": a paleolimnological comparison of regime shift changes linked to climate warming.
- 16:15-16:30 Kay, M.L., Wiklund, J.A., Wolfe, B.B., Hall, R.I. Application of a Bayesian mixing model framework to generate novel 'paleohydroscapes' at a freshwater boreal delta (Alberta, Canada).
- 16:30-16:45 Wiklund, J.A., Kay, M., Lacey, A.L., Anderson, L., Watson, M., Wolfe, B.B., Hall, R.I. High-resolution X-ray fluorescence lake sediment records of ice-jam flood frequency and intensity in the Peace-Athabasca Delta, Canada.
- 16:45-17:00 Ng, K.F., Sia, M.E., Pisaric, M., Moser, K.A. Investigating lake ecosystem response to increased temperatures and wildfire occurrence.

- 17:00-17:15 Thienpont, J.R., O'Hagan, C., Gruia, S.A., Smol, J.P., Kokelj, S.V., Korosi, J.B. Rapid permafrost degradation impacts on western Canadian Arctic lakes: a decadal to centennial scale perspective.
- 17:15-17:30 Shi, D., Weinberg, N., Marshall, M.G., Galloway, J.M., Patterson, R.T. Paleoclimate reconstruction in Debauchery Bay, Northwest Territories Canada using particle size analysis and geochemical proxies.
- 17:30-17:45 Galloway, J.M., Parsons, M.B., Sanei, H., Weinberg, N., Patterson, R.T., Falck, H. Mercury deposition from terrestrial reservoirs is a predominant process in sub-arctic and low Arctic lakes: evidence from a spatial survey and a ~1270 year lacustrine sedimentary record from northern Canada.
- 17:45-18:00 Medeiros, A.S., Chipman, M.L., Francis, D.R., Hamerlík, L., Langdon, P., Puleo, P.J.K., Schellinger, G., Steigleder, R., Walker, I.R., Woodroffe, S., Axford, Y. A continental-scale chironomid training set for estimating Arctic temperatures.

Room ZONA

FS32 + FS33 - Environmental records of the Anthropocene in artificial lakes

- 14:00-14:15 Manjarrez-Rangel, C.S., Zanor, G.A., Piovano, E.L., Halac, S.R. Environmental changes in Laguna de Yuriria (Central Mexico) using a paleolimnological approach.
- 14:15-14:30 de Tezanos Pinto, P., Drozd, A., Postorivo, A., Gangi, D., Plastani, M.S., Laprida, C., Lami, A., Dubois, N., Bordet, F., Gogorza, C., Frau, D. Integrating sediment core and satellite sensing approaches to assess recent phytoplankton bloom trajectories in a large reservoir.
- 14:30-14:45 Jaque, J., Melo-Pinochet, N. Multi-proxy analysis of the Pihué dam, as an indicator of environmental variability in the Aconcagua River Valley, Valparaiso Region, Chile, between 1960 and 2019.
- 14:45-15:00 Panizzo, V.N., Duong, T.T., McGowan, S., Trinh, A.D., Do, T.N., Lacey, J.H., Leng, M.J., Waters, M.N., Roberts, L.R., Salgado, J. Reconstructing biogeochemical cycling and primary producer community change at Hoa Binh Reservoir, Vietnam.
- 15:00-15:15 Vermaire, J.C., Rahman, M., McCann, E., Cappy, V., Sivarajah, B., McMullin, D., Patterson, R.T., Vis, C., Smol, J.P. Increasing cyanobacteria dominance and water quality concerns in created lakes along the Rideau Canal system, Canada.
- 15:15-15:30 Francus, P., Chassiot, L., Frigon, A., Souza-Kury, M., Lajeunesse, P., Antoniades, D. Multi-proxy record of hydropower and mining activities in northern Québec: case study from Manicouagan.

15:30-16:00 Coffee Break

GS1 - Tectonic and volcanic large lakes

- 16:00-16:15 Smith M.E., Carroll A. Lakes as sensitive records of ancient tectonic processes in continental interiors: Examples from the North American Cordillera.

GS2 - Present-day lacustrine systems

- 16:15-16:30 Walsh C.R., Patterson R.T. Spatiotemporal patterns in lake ice phenology in New Brunswick and eastern Maine.
- 16:30-16:45 Yeager, K.M., Whitehead, S.J., Dilworth, J.R., Johnson, H., Schindler, K.J., Thigpen, J.R., Woolery, E.W., McGlue, M.M. High-resolution lake infill time modeling at Jackson Lake, Wyoming.
- 16:45-17:00 Ramstack Hobbs, J.M., Heathcote, A.J., VanderMeulen, D.D., and Edlund, M.B. Integrating water quality monitoring and diatom community trends to determine landscape-level change in protected lakes.
- 17:00-17:15 Lefebvre C., Bélanger S., Saulnier-Talbot É. Algal and bacterial pigments from the sedimentary archive of a high-use coastal marine embayment.

GS5 - Big Data, AI and the Lake Record

- 17:15-17:30 Ghanbari, H., Cameron, E., Gregory-Eaves, I., Antoniadis, D. Assessment of sedimentary chlorophyll-a concentration algorithms using hyperspectral imaging.
- 17:30-17:45 Charles, D.F., O'Malley, E.C. The Neotoma Paleoecology Database: Overview and diatom data analysis.
- 17:45-18:00 Ensafi Moghaddam, T. Advancing Our Understanding of Dust Stress and Its Feedbacks with Our Climate System by Monitoring of Climatic Factors (A Case Study of South Khorasan Province, Iran).

POSTER SESSION 18:00-20:00

Room MASTER

- 2 FS2- Levi, T., Weinberger, R., Alsop, G., Marco, S. Distinguishing between seismite types using anisotropy of magnetic susceptibility from the Dead Sea sediments.
- 4 FS2- Van Daele, M., Llorba, M., Moernaut, J., Claeys, L., Peirs, K., Lisson, K., Meyer, I., Kissel C., Cnudde V., Urrutia, R., Pino, M., De Batist, M. Lahar deposits from Villarrica Volcano in lakes Calafquén and Villarrica (south-central Chile).
- 6 FS2- Chassiot, L., Frigon, A., L'Heureux-Houde, F.X., Lajeunesse, P., Francus, P. A look back in the Eye of Quebec: morpho-sedimentary records of natural hazards at Lake Manicouagan (northern Québec).
- 8 FS12- Espitia, L., Drago, F.B., Fontana, S.L. Using biological multiproxies to infer biodiversity changes in del Monte shallow lake, Argentina.
- 10 FS12- Dulias, K., Anslan, S., Liu, Y., Liu, K., Wünnemann, B., Vences, M., Schwalb, A. Diatom and ostracod community changes in Nam Co, Tibet shown by sedimentary ancient DNA.

- 12 FS12- Korponai, J., Kövér, Cs., Méhes, N., Magyar, E., Urák, I., Vadkerti, E., Buczkó, K. How do sediment surface diatom, cladoceran and chironomid taphocoenoses of mountain lakes reflect environmental variability?
- 14 FS12- Tkach, N., Berdnikova, A., Makshaev, R., Yanina, T. Stable isotope geochemistry for the modern ostracods in the Caspian Sea.
- 16 FS13- Montes de Oca, F., Massaferró, J., Tonello, M. Chironomids (Diptera) checklist from Pampean shallow lakes, Argentina.
- 18 FS16- Santamans, C.D., Córdoba, F.E., Torres, G.R., Brauer, A., Vignoni, P., Tjallingii, R., Lupo, L.C. Paleoclimatic and paleoenvironmental changes in the Lagunas de Vilama lake System (Argentinean Altiplano-Puna Plateau, 22°S): The Medieval Climatic Anomaly and the Little Ice Age in the high Andes.
- 20 FS16- de Porras, M.E., Maldonado, A., Martel-Cea, J.A. Mid-Holocene environmental dynamics of the subtropical Andes (33°S).
- 22 FS16- Torres, G., Maidana, N., Lupo, L., Vignoni, P., Córdoba, F., Brauer, A. Paleoeological development at centennial-scale inferred from bio-proxy records in the biosphere reserve of Yungas (NW, Argentina).
- 24 FS16- Martini, M. A., Guerra, L., Flores, E., Hajdas, I., Vogel, H., Ariztegui, D. Holocene paleohydrological reconstruction in a high-altitude periglacial basin (Central Andes): a joint paleolimnological-geomorphological view.
- 26 FS29- Kittel, P., Mazurkevich, A., Gauthier, E., Kazakov, E., Kublitskiy, Y., Rzdokiewicz, M., Mroczkowska, A., Okupny, D., Słowiński, M., Szymańska, J., Hajdas, I., Dolbunova. A great history in a small wetland: human-environment relationships on the East European Plain in the last 13 thousand years.
- 28 FS34- Chepyrnaia, A., Novenko, E., Mazei, N., Kupriyanov, D. The Holocene vegetation and fire history of Western Caucasus (Russia) reconstructed by multi-proxy data from the high-altitude Lake Khuko.
- 30 FS34- Dean, S., Greenlee, J., Barzilai, O., Belmaker, M., Waldmann, N. Early Pleistocene Paleoenvironmental Conditions in the Levantine Corridor: A new sediment core sequence from Lake 'Ubeidiya.
- 32 FS5- Brasell, K.A., Pearman, J.K., Howarth, J.D., Thomson-Laing, G., Pochon, X., Zaiko, A., Simon, K., Vandergoes, M. J., Wood, S.A. Multiple trophic level recovery from a large-scale natural pulse disturbance detected using paleo-molecular markers.
- 34 FS5- Raberg, J.H., Gering, S., Harning, D.J., Ardenghi, N., Thordarson, T., Sepúlveda, J., Fierer, N., Geirsdóttir, Á., Miller, G.H. The hunt for brGDGT-producing bacteria: insights from genomic and lipid biomarker analyses in modern and ancient Icelandic lacustrine environments.
- 36 FS8+FS22- Coviaga, C.A., Cusminsky, G.C., Pérez, A.P., Ariztegui, D. Comparative analysis of extant and Holocene ostracod assemblages from Northern Patagonia, Argentina.

- 38 FS8+FS22- Williams, N., Rizzo, A., Daga, R., Arribére, M.A., Ribeiro, Guevara, S. A paleoenvironmental analysis of natural and anthropic events in the Caviahue area (Neuquén Province; Northern Patagonia) inferred from chironomids and other sediment proxies.
- 40 GS2. Whitehead, S.J., Yeager, K.M., Dliworth, J.R., Schindler, K.J., Jhonson, H.L., Thigpen, J.R., Woolery, E.W., McGlue, M.M. Spatial variability of sediment accumulation in Jackson Lake, Wyoming.

Room PALACE

- 42 FS8+FS22- Alfonzo, W., Daga, R., Goldmann, G., Ribeiro Guevara, S. Comparison of historical volcanoclastic records in sequences from Lakes La Zeta and Brychan (43° S), Patagonia Argentina, affected by the Austral Southern Volcanic Zone.
- 44 FS8+FS22- Rayó, M.C., Esquiú, K.S., Tonello, M.S. First approach to the description of phytoplankton and periphytic communities in freshwater bodies of South Patagonia (49°S), Argentina.
- 46 FS8+FS22- Velásquez, B., Abarzúa, A.M., Martel-Cea, J.A. Environmental reconstruction in the Nahuelbuta mountain range during the Holocene, Chile.
- 48 FS15- Dominguez, L., Villarosa, G., Beigt, D., Cottet, J., Outes, V. Analysis of a short sediment core from Lago Frías, North Patagonia, Argentina.
- 50 FS17- Hipwell, K.E., Covert, A.E., Medeiros, A.S. The use of paleolimnology to inform freshwater management of urban lakes: Halifax Regional Municipality, Nova Scotia, Canada.
- 52 FS21- Lopera Congote, L., Stone, J., Westover, K., McGlue, M. Human occupation and climate as influences for the ecological change of a high-altitude lake in the Sierra Nevada, California.
- 54 FS21- Syrykh, L., Subetto, D., Nazarova, L., Grekov, I. Paleolimnological studies on the East European Plain: PaleoLake Database.
- 56 FS23- Fernández, M., San Martín, C., Bigler, C., Rydberg, J., Ponce, J.F. Diatoms, sedimentology and geochemistry study from a high altitude lake in the Fuegian Andes.
- 58 FS23- Martel-Cea, A., Abarzúa, A.M., Jarpa, L. Effects of human-driven impacts on the freshwater communities in Lanalhue lake, south-central Chile.
- 60 FS23- Perez, L., Crisci, C., García-Rodríguez, F. Paleoenvironmental reconstruction and paleoclimatic implications of Laguna de las Nutrias sedimentary record, SE-Uruguay (1500 CE to the present).
- 62 FS24- Kublitskiy, Y., Leontev, P., Verkulich, S., Subetto, D. Study of lake sediments on King George Island (West Antarctica).
- 64 FS30- Amezcuá-Vargas, M., Caballero, M., Alcocer, J., Ruiz-Fernández, C., Massaferró, J., Osegüera, L., Sigala, I. Paleolimnological evaluation of the recent evolution of two lakes in Lagunas de Montebello National Park, Chiapas, Mexico.

- 66 FS35- Siderac, F., Benavente, C.A., Erra, G. Paleolimnological interpretations from organic matter data for the Santa Clara Abajo paleolake, Triassic, Cuyana Basin, Argentina.
- 68 FS35- Arenas, C., Osácar, C., Pérez-Rivarés, J., Gil, A., Bastida, J., Auqué, L., Gimeno, M.J. The Middle Miocene Climatic Optimum in lacustrine sequences as recorded by stable isotope composition in the Ebro Basin, NE Iberia.
- 70 GS2. Concha,V.,Maureira,M. ,Medina,P.,Fernandez J. Abatement of the fungicide carbendazim (CBZ) treated with the peroxymonosulfate (PMS)/Co²⁺ system: parameters affecting the degradation and the toxicity

WEDNESDAY 30

MORNING 8:30-13:00

Room MASTER

FS21 - Lakes as archives of the Anthropocene

- 8:30-8:45 Patterson, R. T., McCarthy, F.M.G., Head, M., Riddick, N., Cumming, B., Hamilton, P., Pisaric, M., Gushulak, C., Leavitt, P., Lafond, K., Llew-Williams, B., Marshall, M., Heyde, A., Pilkington, P.M., Moraal, J., Boyce, J., Nasser, N.A., Walsh, C.R., Garvie, M., Roberts, S., Rose, N., Cundy, A., Gaca, P., Hajdas, I., Crann, C., Boom, A., Finkelstein, S., McAndrews, J. Great Acceleration record preserved in the annually laminated sediment succession of Crawford Lake, Ontario, Canada as a candidate locality for the Anthropocene Global Boundary Stratotype Section and Point (GSSP).
- 8:45-9:00 Krahn, K. J., Haas, K., Lemmes, C., Saeidi Ghavi Andam, S., Gigl, F., Hinderer, M., Hirbodan, S., Marinova, E., Nelle, O., Rösch, M., Rückert, P., Plessen, B., Wick, L., Schwalb, A. Intertwining sedimentary and historic archives from medieval to early modern times: the story of Bad Waldsee (southern Germany).
- 9:00-9:15 Nishikawa, C., Medeiros, A., Wolfe, B. Biotic responses of shallow subarctic ponds to a warming climate in the Anthropocene: A perspective from the Hudson Bay Lowlands, Canada.
- 9:15-9:30 Cook, T.L., Snyder, N.P., Dulin, I., Wang, X. Effects of land-use change on watershed erosion and nitrogen cycling in the northeastern United States.
- 9:30-9:45 Jenny, J-P., Soares, L.M.V., Desgue-Itier, O., Ferré, M. Reconciling global lake oxygen observations by coupling model, limnological and paleolimnological approaches.
- 9:45-10:00 Schneider, L., Thomas, Z.A., Saunders, K. M., Bird, M., Fletcher, M.S., Haberle, S.G. Mercury deposition and mass balance in tropical and temperate freshwater lakes of Australia.

10:00-10:15 Pérez-Portilla, P., Tapia, J., Herrera, J., Aránguiz-Acuña, A. Assessing the effect of mining pollution in a lacustrine system from the arid region of the Atacama Desert, Chile.

10:15-10:45 Coffee Break

Room PALACE

FS19 - Degradation and restoration of deltas, wetlands, and floodplain lakes and ponds in the Anthropocene

8:30-8:45 Benito, X., Vilà, M., Giosan, L., Alcaraz, C. Shifts, baselines and nonlinearities in a Mediterranean delta: quantifying ecological resilience using a combined limnological-paleolimnological approach.

8:45-9:00 Walton, R.E., Henderson, A.C.G., Large, A., Sear, E., Rabby, S., Chowdhury, A.I.A. Can flood histories be reconstructed in tropical mega-delta lakes?

9:00-9:15 Apolinarska, K., Aunina, L., Marzec, M., Siepak, M., Michalska, D., Pleskot, K., Kiełczewski, R., Gałka, M. Why is tufa not depositing anymore at lowland alkaline fen in Central Europe? Insights from monitoring and paleoecological data.

9:15-9:30 Tunno, L., Rhode D. Environmental reconstruction changes in Soldier Meadows (Great Basin, USA) during the last 500 years through a multi-proxy approach.

9:30-9:45 Kiełczewski, R., Gałka, M., Pleskot, K., Apolinarska, K. Holocene development, functioning and decline of a Central European alkaline fen ecosystem.

9:45-10:00 Salgado, J., Vélez, M.I., Lopera, L., Panizzo, G.N., Imenne Åhlén, González-Arango, C., Link, A. Limnological change and interactive threats in a floodplain lake landscape in the Magdalena River, Colombia.

10:00-10:45 Coffee Break

Room ZONA

FS6 - Varves records: from tracking natural and anthropogenically induced changes of the environment and climate to improving chronologies of past events

8:30-8:45 Lafond, K., Walsh, C.R., Patterson, R.T., McCarthy, F.M.G., Nasser, N.A., Hamilton, P. Influence of climatic trends and cycles on the annual varve deposition in Crawford Lake, Ontario, Canada.

8:45-9:00 Marshall, G.M., Hamilton, B.P., Lafond, M.K., Nasser, A.N., McCarthy, M.G.M., Patterson, R.T. Annual-scale assessment of mid-20th century impacts on the algal ecology in Crawford Lake, Ontario, Canada.

- 9:00-9:15 Boyall, L., Valcarcel, J., Harding, P., Hernandez, A., Martin-Puertas, C. Seasonality of calcite precipitation and biological productivity in a marl lake to understand potential drivers and limiting factors of varve formation.
- 9:15-9:30 Palmer, A., Bendle, J., Matthews, I., MacLeod, A., Staff, R., Lincoln, P., Hoek, W. A varve and radiocarbon-based age estimate for the deglaciation of the British and Irish Ice Sheet in South Wales.
- 9:30-9:45 Roberts, N., Woodbridge, J., Allcock, S., Jones, M.J., Primmer, N., Metcalfe, S., Dean, J., Eastwood, W., Brauer, A. Lake varves record the causes and effects of the Plague of Justinian, the world's first pandemic.
- 9:45-10:00 Roeser, P., Dellwig, O., Kaiser, J., Weiss, H., Arz, W.H., Brauer, A. Millennial-scale lead (Pb) pollution in the southern Baltic lowlands from stable Pb isotopes in the Lake Tiefer See record.
- 10:00-10:15 Tylmann, W., Żarczyński M., Zander P.D., Grosjean M. Decade-long observations of relationships between meteorological conditions and varve formation processes in Lake Żabińskie (Poland).

10:15-10:45 Coffee Break

- 10:45-11:00 Żarczyński, M., Tselashvili, N., Trapaidze, V., Tylmann, W. A preliminary perspective on the last millennium in the High Caucasus: an example of Lake Kelitsadi (Georgia).
- 11:00-11:15 Kury, M.S., Francus, P., Gagnon-Poiré, A., Ghanbari, H., Antoniadou, D. Preliminary geochemical investigation of proximal sediment cores in a high latitude fjord lake in Labrador, Northeast Canada.

11:15-12:00 PLENARY SESSION: Esteban Castro. "X disciplinarity and other difficult knowledge dialogues in water-related research".

12:00-13:00 Awards Ceremony

13:00-14:00 Lunch

14:00 Social Activities

THURSDAY 1

MORNING 8:30-12:30

Room MASTER

FS5 - Molecular applications and perspectives on modern and Quaternary environmental systems

- 8:30-8:45 Brown, A.G., Mackay, H., Henderson, A.C.G., Fonville, T., Alsos, I.G., Langdon, P., van Hardenbroek, M. Ancient human environmental impacts determined from combining sedDNA and lipid biomarkers from temperate lakes.
- 8:45-9:00 Cerda-Peña, C., Véquaud, P., Contreras, S., Huguet, A. Modern plant leaf waxes allow to recognize and reconstruct plant species from a mixed signal in soil and surface lake sediment at South American temperate forest.
- 9:00-9:15 Von Eggers, J., Wisnoski, N., Calder, J.W., Capo, E., Groff, D., Krist, A., Shuman, B. Local factors drive deterministic assembly of sediment bacterial and archaeal communities from disconnected mountain lakes.
- 9:15-9:30 Martin, C., Bouffard, D., Pomati, F., Amaral-Zettler, L., Dubois N. Spring production of alkenones in Lake St Moritz (Switzerland): a first step towards the use of the alkenone paleothermometer in mid-latitude freshwater lakes.
- 9:30-9:45 Huston, G.P., Kinnison, M.T., Saros, J.E. Within-lake spatial variation in fish sedimentary DNA concentrations.

9:45-10:15 Coffee Break

- 10:15-10:30 Russell, J., Zhao, B., Parish, M., Tsai, V., Blaus, A., Bush, M., Valencia, B. Calibration and application of the branched glycerol dialkyl glycerol tetraether proxy for temperature in tropical South America.
- 10:30-10:45 Moguel, B., Valdez-Salgado, L., Sánchez-Sánchez, J., Muñoz-Velazco, I., Cerca-Martínez, M. Evaluation of eukarya metabarcoding of four meters of sediments from Lago maar Rincon de Parangueo.
- 10:45-11:00 Frugone-Álvarez, M., González-Guarda, E., Labarca, R., Godoy, C., Contreras, S., Viña, N., Latorre, C., Blanco, J., Soto, P., Delgado-Huertas, A., Villacís, L.A., Iriarte, J., Aranbarri, J., Valero-Garcés, B. Late Quaternary paleoenvironmental evolution of the ge archaeological site TaguaTagua 3 in central Chile (~34°S).
- 11:00-11:15 Sánchez-Sánchez, J., Cerca, M., Alcántara-Hernández, R.J., Muñoz-Velasco, I., Aranda-Gómez, J.J. Evaluation of prokaryotic communities along a sediment vertical profile in two saline-alkaline crater maars using 16S rRNA metagenomic approach.
- 11:15-11:30 Heathcote, A.J., Taranu, Z.E., Tromas, N., MacIntyre-Newell M., Leavitt P.R., Pick F.R. Sediment DNA and pigments show increasing abundance and toxicity of cyanobacteria during the Anthropocene.

Room PALACE

FS18 - Integrating process models into paleolimnological methods: Toward hindcast-forecast approaches to assess evolution of lake-watershed systems

- 8:30-8:45 Soares, L.M.V., Desgue-Itier, O., Domaizon, I., Barouillet, C., Jenny, J.P. Integration of lake modeling, paleolimnological records and in situ measurements towards the reconstruction of dissolved oxygen concentrations in perialpine lakes over 250 years (1850–2100).
- 8:45-9:00 Ayele, G.T., Yu, B., Hamilton, D.P. Multiproxy paleolimnological modelling of the non-stationary dynamics of catchment inflows and sediment yield, and sedimentation for three New Zealand lakes.
- 9:00-9:15 Mazure, T., Saulnier, G.-M., Mazier, F., Serge, M.A., Messenger, E., Arnaud, F., Jenny, J.P. Quantifying soil erosion during the Holocene by coupling land surface modeling and paleoenvironmental approaches.
- 9:15-9:30 Desgué-Itier, O., Jenny, J.P., Melo Vieira Soares, L., Sharaf, N., Anneville, O., Bouffard, D., Vinçon, Leite, B., Chanudet, V., Danis, P.A., Domaizon, I., Mazure, T., Soullignac, F., Tran-Khac, V., Guillard, J. Hindcast/forecast of thermal regime and oxygen solubility in four perialpine lakes using 1D model and OLA observatory data.
- 9:30-9:45 Ferré, M., Soares, L.M.V., Desgue-Itier, O., Jenny, J.-P. The paradox of increasing long-term carbon sequestration in lake ecosystems despite reoligotrophication: addressing the case of four deep French perialpine lakes with paleo-environmental data and modelling approach.

9:45-10:15 Coffee Break

FS28 - Proglacial lakes

- 10:15-10:30 Piret, L., Bertrand, S. Multidecadal delay between deglaciation and formation of a proglacial lake sediment record.
- 10:30-10:45 Lozano, J.G., Restelli, F.B. Bran, D.M. Gutierrez, Y.S., Tassone, A. Submerged morphologies in Punta Banderas, Lago Argentino, Patagonia.
- 10:45-11:00 Doyle, R.M., Bumstead, N., Lewis, C.F.M., Longstaffe, F.J. A new ostracod record from Lake Simcoe, Canada, sheds light on the meltwater pathways of glacial lakes in the Laurentian Great Lakes basin.
- 11:00-11:15 Hernández, A., Sáez, A., Santos, R.N., Rodrigues, T., Martin-Puertas, C., Gil-Romera, G., Abbott, M., Carballeira, R., Costa, P., Giral, S., Gomes, S.D., Griffore, M., Ibañez-Insa, J., Leira, M., Moreno, J., Naughton, F., Oliveira, D., Raposeiro, P.M., Trigo, R.M., Vieira, G., Ramos, A.M. Last glacial termination in the Iberian mountains: the stratigraphic analysis of a lake sequence from Serra da Estrela (Portugal).

11:15-11:30 Panin, A., Andreicheva, L., Kurbanov, R., Marchenko-Vagapova, T. The late MIS 6 proglacial lake in the Arctic-Caspian watershed, northeastern European Russia.

Room ZONA

FS30 - Using Palaeolimnology to Understand Recent Human Impacts on Tropical Lakes

8:30-8:45 Cohen, A., McGlue, M., Soreghan, M. Using paleolimnologic data to understand the tempo and mode of anthropogenic ecosystem change in tropical African Lake Tanganyika.

8:45-9:00 Sun, M., Panizzo, V., Burson, A., McGowan, S., Mariani, M. Lacey, J. Understanding long-term environmental impacts to inform sustainability in Lake Victoria, Kenya.

9:00-9:15 Unger, L., Jones, V., Robson, H. Using palaeoecology to determine the effects of recent human impacts on a shallow lake in Madagascar.

9:15-9:30 Steinitz-Kannan, M., X. Benito Granel, S. Fritz, J. Conroy and M. Bush. Studies of paleolimnology in Ecuador: using diatoms from sediment cores to separate human and climate impacts.

9:30-9:45 McGowan, S., Boyle, J., Briddon C., Engels, S., Lacey, J., Leng, M.J., Li, Y., Mills, K., Panizzo, V., Muhammad, S., Ryves, D.B., Winter, L., Yee, C.M. Using palaeolimnology to inform conservation of a rare Malaysian flood pulse wetland.

9:45-10:15 Coffee Break

FS26 - Arctic lakes: Archives of Quaternary paleoclimate, paleoglaciology, and paleoecology

10:15-10:30 Kjellman, S.E., Thomas, E.K., Schomacker, A., Farnsworth, W.R., Cowling, O.C., Allaart, L., Brynjólfsson, S. Seasonal distribution of precipitation on Svalbard modulated by regional ocean surface conditions and sea ice during the Holocene.

10:30-10:45 Alsos, I.G., Rijal, D.P., Ehrich, D., Karger, D.N., Yoccoz, N.G., Heintzman, P.D., Brown, A.G., Lammers, Y., Pellissier, L., Alm, T., Bråthen, K.A., Coissac, E., Merkel, M.K.F., Alberti, A., Denoeud, F., Bakke, J., PhyloNorway consortium. Post-glacial species arrival and diversity build-up of northern ecosystems took millennia.

10:45-11:00 Anderson, L., Finney, B.P., Baxter, W.B., Bigelow, N. Deglacial and Holocene paleoclimatic events in southcentral Alaska from carbonate lakes.

11:00-11:15 Novenko, E., Chepurnaya, A., Rudenko, O., Mazei, N., Kupriyanov, D., Batalova, V. Late Holocene vegetation and fire history in Western Putorana Plateau (subarctic Siberia, Russia) inferred from pollen and charcoal analysis of the lake sediments.

11:15-11:30 Schomacker, A., Rouillard, A., Bulínová, M., Alsos, I.G., Hodson, A., Kjær, K.H. PolarCH4ives: Reconstructing long-term methane cycling from Arctic lakes.

11:30-12:30 **PLENARY SESSION: Concha Arenas.** “A multi-scale approach to climate reconstruction from lacustrine deposits: an example of the Neogene in the Ebro Basin, NE Iberia”.

12:30-13:30 **Lunch**

13:30-14:30 **PLENARY SESSION: Beatriz Modenutti.** “Volcanic eruptions and glacier recession: understanding the effect of particle inputs in planktonic communities of Andean-Patagonian lakes”.

AFTERNOON 14:45-19:30

Room PALACE

FS7 - Beyond just research data: The value of outreach, education, equality, diversity and inclusion around lakes

14:45-15:00 Molenaar, A., Lantschner, M., Pöll, J., Strasser, M., Daxer, C., Moernaut, J. A Deeper Look at Lakes (Tiefer Sehen): Investigating lacustrine sedimentary archives with local school children.

15:00-15:15 Martinez-Abarca, R., García-León, S., Sámano, R., Cárdenas-Fuentes, E. Three years communicating geosciences in social networks: Divulgación Terróloga.

15:15-15:30 Martinez, L., Crosa, V., Aniere, M., Tonello, M.S., Rayó, C., Romanelli, A., Lipori, M., Esquiús, S. Donde nacen las aguas (DNLA): building new local collective practices for the defense of a common good.

15:30-15:45 Contreras, S., FDL&O, 2022, Agrupación Junquillar, Barrera, F., Stuardo, A. Learning & Service (L+S), a methodology to promote social awareness and a tool to generate basic environmental information about lake ecosystems.

15:45-16:15 **Coffee Break**

16:15-16:30 García-Villalba, E., Youm, C.I., Gueye, A., Sow, I.S., Doumbouya, M.F., Sow, E., Ezzoura, E., Morales, J.A. The lake Retba geomorphosite (Senegal): Evaluation and Promotion for Sustainable Human and Socio-Economic Development.

16:30-16:45 Benito, X., Feitl, M., Carrevedo, M. I., Velez, M. I., Escobar, J., Tapia, P.M., Steinitz-Sannan, M., Fritz, S.C. Towards an inclusive and community-driven Iberoamerican geo-limnology science: the tropical South American diatom database.

16:45-17:00 Echeverría-Galindo, P., Bonilla, K., Pérez, L. Women, science and development in Latin America: the case of limnologists and paleolimnologists in the Organization of Women in Science for the Developing World - OWSD.

- 17:00-17:15 Halac, S., Lecomte, K., Sterren, A., Ávila, P., Borda, L., Coppa Vigliocco, A., Coppo, R., Echegoyen, C., Leone, F., Nóbile, J., Pannunzio Miner, E., Pisani, N., Serra, F., Sferco, E., Soto Rueda, E. Current situation in the positions and hierarchical spaces in an Earth Sciences Research Center (CICTERRA, Argentina): A gender perspective approach.
- 17:15-17:30 Pérez, L., Búcker, M. Challenges faced by bi-cultural, dual-career academics and suggestions for how to address them.
- 17:30-17:45 de Tezanos Pinto, P. Gender and parenthood effects in career advancement, evidence from the National Scientific and Technical Research Council - Argentina (CONICET).

18:00-19:30 Closing Ceremony / Business Meeting IPA IAL.

Room ZONA

FS10 - The challenge of public communication of science in Limnology & Paleolimnology

- 14:45-15:00 Roddick, I., Escudero, S., Piñero, P. Lake Nahuel Huapi, what lies beneath. Art, science and the creative process.
- 15:00-15:15 Loutre, M.F., Vannièrè, B., Gil-Romera, G., Eggleston, S. PAGES Horizons: an outreach magazine about paleosciences.
- 15:15-15:30 Seijas, S., Quintana, F., Belmonte, D. The scientific communication journal from Nahuel Huapi National Park.
- 15:30-15:45 Martin-Puertas, C., Milner A. Rethinking Palaeolimnology for Society: co-production strategies for an effective science-policy interface.

15:45-16:15 Coffee Break

- 16:15-16:30 Rubio-Sandoval, K., Martínez-Abarca, R., Yanez Montalvo, A.F., Cruz Hernández, T.E. Post D. The rhythm of lakes: dancing the climate of the past
- 16:30-16:45 Crespo, J. E. Climate change in the Los Lagos region, Chile: 'Laguna Verde' as a platform for outreach, education and inclusion.
- 16:45-17:00 Caballero, M. Soler Arechalde, A.M. Science and Paleolimnology in Social Media.
- 17:00-17:15 Sanchez, F. How to communicate on social media.

Room MASTER

20:00-24:00 GALA DINER