Meet the Editors of the Journal of Paleolimnology

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Editors-in-Chief

Mark Brenner
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Interests: Tropical and subtropical limnology, Paleolimnology and paleoclimatology. I am a limnologist and paleolimnologist with special interests in tropical and subtropical lakes and watersheds. I use sediment cores from lake bottoms to reconstruct the history of aquatic ecosystems and their drainage basins. These sediment profiles record information on long-term climate change as well as recent anthropogenic environmental impacts. The research is collaborative and multidisciplinary, involving pollen analysis, sediment geochemistry, microfossil analysis, stable isotopes, and radiometric dating. I frequently collaborate with archaeologists, biologists, and researchers from other disciplines. The University of Florida Land Use and Environmental Change Institute (LUECI) facilitates interdisciplinary research and teaching on complex interactions among climate, humans, and the environment. Research Opportunities: Historical trophic state changes in Florida lakes, Pleistocene/Holocene climate of the Circum-Caribbean, Pb-210 dating and radionuclides in the environment.
More information: http://web.geology.ufl.edu/m_brenner.html

Thomas J. Whitmore
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Tom has worked since 1980 using diatoms to reconstruct past water quality in subtropical and tropical lakes of Florida USA, southwest China, and Yucatan Peninsula, Mexico. Tom received his M.S. (1985) and Ph.D. (1991) degrees in Zoology from the University of Florida, where he studied for 8 years with the late Edward S. Deevey, Jr. His research principally has addressed how land-use changes have influenced lake trophic state. Tom’s research also has examined diatom and macrophyte relationships, lake alkalization, human-mediated soil erosion, heavy-metal contamination of lake sediments, and diatoms as indicators of changing flow regimes in Florida rivers. Tom founded the Paleolimnology Forum (PALEOLIM) listservice in 1995, and continues to serve as its moderator. He is an ex officio member of the Executive Committee for the International Paleolimnology Association (IPA).
More information: http://www1.usfsp.edu/coas/biology/Whitmore.htm
Managing Editor

Melanie A. Riedinger-Whitmore
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Melanie studied with Paul Colinvaux and graduated from The Ohio State University in 1993. Her areas of specialization include aquatic and wetland ecology, and the paleolimnology of lakes in Florida, the Galapagos Islands, and mainland Ecuador. She uses fossil algal pigments and diatoms in sediments to determine the timing of cyanobacterial proliferation, and to document historical changes in water quality from anthropogenic influence. Melanie's work also has included reconstructing Holocene El Niño periodicities from hypersaline lake sediment records in the Galapagos Islands using laminations and changes in fossil diatoms, mineralogy, and geochemistry to track changes in El Niño frequency and intensity. Recently, Melanie has examined the influence of changing flow regimes on diatom, soft-algal, and macrophyte communities in Florida rivers. She currently serves as chair of the Department of Biological Sciences at USF St. Petersburg. More information: http://www1.usfsp.edu/coas/biology/Riedinger-Whitmore.htm

Founding Editor

John P. Smol
Paleoecological Environmental Assessment and Research Lab (PEARL), Department of Biology, Queen's University, Kingston, Ontario.
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Research: The research in my lab focuses on the study of the complex interactions between a lake's biota and the environment. Most of our research uses paleolimnological techniques, which allow us to reconstruct the environmental histories of lakes. Because historical reconstructions are dependent on an understanding of living algal and invertebrate communities, a variety of studies dealing with present-day lake systems are also being investigated. A central theme is often the close linkage between aquatic and terrestrial systems. Projects are split between studies dealing with applied aspects of environmental degradation (and recovery), and studies dealing with more theoretical subjects related to long-term successional patterns in lake systems. A large number of studies are now in progress dealing with problems such as lake acidification, eutrophication, taste and odour problems, as well as other issues. In addition, a long-term research program is ongoing studying the limnology and paleolimnology of Arctic ecosystems. More information: http://post.queensu.ca/~pearl/

Associate Editors

Richard Bindler
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In brief, I am an environmental geoscientist with an interest in examining environmental changes and their causes, with a focus on human impacts. My academic training includes a liberal arts education (BA, Colby College, 1985), a MSc in geology (University of Maine, 1996), and a PhD in environmental science (Umeå University, 2001). In research and teaching I focus on the use of natural archives, i.e., lake sediments as well as peat and soils, to reconstruct environmental changes in time and space; such changes include lake and peatland development, biogeochemical processes related to lake-water quality, geochemistry of varved sediments and especially the fate and transport of pollutants in the environment. A particular focus is to quantify the transport and fate of lead, mercury and other metals in the environment with regard to a range of spatial scales (single to multiple sites, whole-lake basin, small and large regional scales) and temporal scales (annual up to 10^4 years). More information: http://www.emg.umu.se/english/about-the-department/staff/bindler-richard
Steve J. Brooks
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Steve has an interest in the taxonomy, ecology and palaeoecology of freshwater insects and their response to environmental change. He has had a long and varied career at the Natural History Museum, during which he has published widely on dragonflies, lacewings and chironomids. He has also had the opportunity to work on projects communicating science to the public and run public engagement projects on environmental monitoring. The main focus of his current research is in the use of chironomids to quantify past environmental change. He has worked extensively on chironomid faunas in northern and central Europe, Patagonia, northern Russia and China to quantify changes in late-glacial and Holocene summer temperature, salinity and lake trophy.
More information:
http://www.nhm.ac.uk/research-curation/staff-directory/entomology/s-brooks/index.html

Elizabeth H. Gierlowski
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Elizabeth received her bachelors degree with honors from the University of Chicago and masters and PhD degrees from Case Western Reserve University in Cleveland, Ohio. She won a post-doctoral position at the Institut für Palaeontologie at the Free University in Berlin, Germany and afterwards settled at the Department of Geological Sciences of Ohio University in Athens, Ohio where she is now Professor. Elizabeth is a sedimentologist who specializes in limnogeology, the study of lakes in the geologic record. She has published on both siliciclastic and carbonate lake paleoenvironments from the Phanerozoic record and has studied the limnology of reservoirs in southeastern Ohio, documenting the effects of acid mine drainage on sediments and benthic fauna. Elizabeth co-edited two books with the late Kerry Kelts entitled “Global Geological Record of Lake Basins” and “Lake Basins Through Space and Time”. These books are the result of International Geological Correlation Projects sponsored by UNESCO to collate data on lake basins worldwide. Elizabeth helped to establish the International Association of Limnogeology of which she now serves as President and she is the founding chair of the Limnogeology Division of the Geological Society of America.
More information: http://www.ohio.edu/geology/gierlowski_kordesch/

Piero Guilizzoni
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Piero is a Senior scientist, and he has been involved in palaeolimnology since 1978, when he built, together with M.S. Adams (Univ. of Wisconsin, Madison), a first attempt of a calibration data set to infer primary production from the concentration of algal pigments in lake sediment. After more than thirty years, he still enjoys sailing every kind of lake to take new cores, and he likes to sample mountain lakes in August, when all his younger colleagues are having holidays. Piero's main interests are algal fossil pigments, and in general all biological remains and geochemistry, but he explains that he must spend too much time writing papers, research applications and reports, which elicits much understanding and concurrence from colleagues who share that experience! Piero has worked on lakes in Italy, Switzerland, France, UK, Vermont, high mountain regions (Alps, Himalayas), and remote regions (Arctic, Patagonia, Pampas, Antarctica, Tibet, Finnish Lapland, and Siberia).
More information: http://digilander.libero.it/iz1ant/staff.htm
Oliver M. Heiri
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Oliver is a specialist on the paleoecology of freshwater invertebrates with a wide interest in paleolimnology, paleoecology and paleoclimatology. He studied Systematic and Ecological Biology at the Swiss Federal Institute of Technology (ETHZ) in Zurich, Switzerland. Later he completed a PhD thesis at the University of Bern, Switzerland, dealing with the use of fossil chironomid assemblages in lake sediments for reconstructing past environmental change. After a one-year post-doctoral visit at the University of Bergen, Norway, Oliver moved to the Institute of Environmental Biology, Utrecht University, the Netherlands. Here, he formed a small research group working on environmental reconstruction based on fossil assemblages of freshwater organisms. He has recently been awarded a European Research Council Starting Independent Researcher Grant to explore new avenues for using stable isotopes in remains of aquatic invertebrates for paleoenvironmental reconstruction.

More information: [http://www.uu.nl/EN/FACULTIES/SCIENCE/ORGANISATION/DEPTS/BIOLOGY/Pages/default.aspx](http://www.uu.nl/EN/FACULTIES/SCIENCE/ORGANISATION/DEPTS/BIOLOGY/Pages/default.aspx)

Jonathan A. Holmes
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Jonathan works on lake sediments and late Quaternary climate reconstruction. He has expertise in lacustrine ostracods, particularly trace-element and stable isotope analyses of ostracod shells. He obtained his BA and DPhil degrees from the University of Oxford. Following doctoral research into Pliocene and Quaternary Environmental Change in Kashmir, Northwest Himalaya, he has worked in the West Indies, West and North Africa, Western China and Northwest Europe. He was appointed Associate Editor of Journal of Paleolimnology in 2008 and was previously Book Review Editor for the journal.

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Steve Juggins
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My research interests fall into two broad categories: the use of modern and fossil diatoms for monitoring environmental change, and the analysis of ecological and palaeoecological data.

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Sarah Metcalfe
Sarah Metcalfe, Professor, School of Geography, University of Nottingham, UK. Sarah works mainly on sediment cores from low latitude lakes (especially the tropical Americas) to explore climatic variability over the Late Pleistocene and Holocene, evidence for human impact on catchments and how climate and humans might interact. She has a particular interest in variability in monsoon systems and in 2012 co-edited *Quaternary Environmental Change in the Tropics*. For the recent past, she collaborates with environmental historians to gain greater insight into environmental change, its social context and impacts. She is a diatomist by background, but now does quite a lot of work with stable isotopes. She did her undergraduate degree at the University of Cambridge and her D.Phil. at the University of Oxford. Due to an early excursion into air pollution studies, she also has an interest in acidification and the impacts of emission reduction policies.

More information: [http://www.nottingham.ac.uk/geography/people/sarah.metcalfe](http://www.nottingham.ac.uk/geography/people/sarah.metcalfe)

Steffen Mischke
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Steffen is interested in Quaternary climate variability and landscape change in arid to semi-arid regions. He investigates climate records from Central Asia, the Near East and northern Africa using ostracod assemblage data and sedimentological and geochemical properties of lake sediments. He is studying the ecology of Recent ostracods as tool for paleoecological inferences. Steffen obtained his Diploma and PhD degrees from the Freie Universität Berlin where he worked as Professor for six years afterwards. After a one-year post-doctoral stay in Minneapolis, he is currently affiliated to the University of Potsdam with a Heisenberg Research Fellowship. Steffen was appointed Associate Editor of Journal of Paleolimnology in October 2010.

More information: [http://141.89.111.29/webpage/member-details/show/223.html](http://141.89.111.29/webpage/member-details/show/223.html)

Amy Myrbo
LacCore and Continental Scientific Drilling Coordination Office, Department of Earth Sciences, University of Minnesota, Minneapolis, MN, USA
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My primary research interest is lacustrine carbon cycling, including carbonate sedimentology, stable isotope geochemistry, and radiocarbon age-depth modeling. I also work on the neopaleolimnology of urban lakes, the past ~1000 years of wild rice lakes with Tribal resource management collaborators, and the spatial and geochemical distribution of natural and iron-mining-derived sulfur in Minnesota water bodies. Developing interests include geoinformatics, especially with respect to NSF’s EarthCube initiative. I’m an advocate for careful lithological core description, including the use of petrographic smear slides, and to this end have developed the free online resource TMI (Tool for Microscopic Identification). Since starting at the Limnological Research Center (LRC) in 1996, and as manager of LacCore since 2002, I have learned a little bit about a lot of different things.

I was lucky enough to be a Ph.D. student of Kerry Kelts, and my undergraduate degree is in English literature. I have been Vice-Chair and Chair of the GSA Limnogeology Division and am on the organizing committee of the 2015 ILIC6 meeting in Tahoe-Reno, Nevada. When not doing research with undergraduates and colleagues, I am the Director of Outreach, Diversity, and Education for the NSF-funded Continental Scientific Drilling Coordination Office at the University of Minnesota, which works closely with the International Continental Scientific Drilling Program to achieve the best possible results from not only lacustrine sequences but in any continental geologic setting worldwide. I was appointed Associate Editor of the Journal of Paleolimnology in 2013.

More information: [http://laccore.org](http://laccore.org)