



Department of Environmental and Earth Sciences

Seminar Announcement

Speaker: Prof. Paula Noble,

University of Nevada Reno, *Dept. Geological Sciences and Engineering & Global Water Center*

Date: Tuesday, 21st April 2026

Time: 9:00 – 10:00

Location: Aula Marchetti



Title: Use of monitoring data to inform paleolimnological records, examples from northern California and Nevada

Abstract: Paleolimnological proxies serve as a valuable means of providing past lake environmental records that span well beyond the period of historic measurement and monitoring. In the case of diatoms, a group of siliceous microalgae and common ecological proxy in Holocene records, relative abundance counts are standard practice, and down core changes are interpreted through recognition of biozones, multivariate statistical methods and inference models from known biological data, experimentation, and modern training sets. Limitations on our interpretations are based on lake sensitivity, and our understanding of the complex interplay of forcings on that diatom community. Limitations are also based on the quality and resolution of age models and the muting of seasonal and annual signals through the lens of multi-annual averaging and sedimentary processes. What part of the signal is lost, even in lakes with “good” age models, and what aspects of monitoring and sampling can best inform us in making paleolimnological interpretations? Examples are explored from cores and limnological records in Fallen Leaf Lake, Lake Tahoe Basin, and Castle Lake, Siskiyou Mountains of northern California, and Summit Lake of Northern Nevada.

This seminar is open to all interested students and researchers.



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paleolimnological records, examples from
northern California and Nevada

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Aula Marchetti U1 - DISAT



Paula Noble,

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Photo: Heart lake, above Castle, Mt. Shasta in background