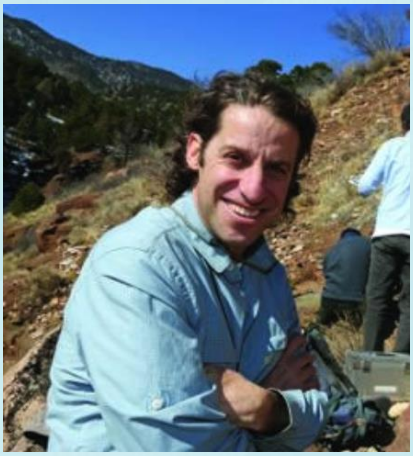
学 术 报 告

Application of paleohydraulics to controversial paleoclimate and paleoecological reconstructions



报 告 人：Paul M. Myrow 教授

报告单位：Colorado College, USA

报告时间：2026 年 9 月 9 日 10:00

地　　点：图书馆三楼报告厅

主　　办：全国重点实验室

报告人及报告简介：

Dr. Paul Myrow has been a professor of geology at Colorado College for nearly four decades. His work spans many fields from quantitative analysis of sedimentary structures, to Himalayan and southeast Asian geology, to biological, climatic, oceanographic events in Earth History. He has published >140 journal articles including those in Science, Science Advances, Geology, EPSL, and Sedimentology. He is a Fellow of the Geological Society of America.

In this talk Myrow will demonstrate how quantitative analysis of sedimentary features can be used to address two major questions in Earth history. (1) Were the tropics cold or hot during the Pennsylvanian? This has been a matter of great debate over the last 20 years. (2) What were river systems like prior to colonization of land by plants? It has been thought that the colonization of land by plants in the Silurian completely altered the nature of river systems, with a big shift from braided to meandering rivers. The talk will demonstrate that river systems in the Cambrian did in fact differ from post-Silurian rivers, but that sinuous to meandering rivers did exist prior to the Silurian. Equally important, this talk will outline evidence for the colonization of fresh water terrestrial settings >70 m.y. earlier than previously thought.