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Education: PhD 1985 Univ Barcelona

Research areas:

My investigation is in three major areas: carbonate sedimentology and diagenesis, sequence stratigraphy of sedimentary basins, and hydrostratigraphy. Research in these areas covers a wide range of ancient sedimentary sequences: from fringing Neogene reefs, to large-scale Paleozoic cratonic basins, to isolated Paleozoic mounds, to small Mesozoic platforms and basins in tectonically active areas. My research approach can be characterized as "problem solving". I apply, often through collaboration, whatever technique is necessary to obtain the best answer to identified problems. I am familiar with field, petrographic, geophysical, and geochemical techniques, and I use any or all of them as needed to establish new and innovative research avenues. My students, colleagues and I employ a variety of geophysical, geochemical, petrographic, and field methods to document migration of fluids and the resulting porosity and permeability variations in sedimentary sequences, to establish the timing of the diagenetic events, and fluid flow characteristics. Current work in dolomitization and calcite cementation in Paleozoic rocks in the Illinois, Permian, and Orogrande basins, has provided a new understanding of the effects of marine and fresh water diagenesis beneath unconformities during early diagenesis. Check my personal web page for more information.