

3-D modeling approaches in sedimentology: Industrial needs and challenges

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Sedimentology is one of the most essential tools to evaluate and characterize subsurface geology in hydrocarbon sedimentary basins. However, available data are usually limited and/or unevenly distributed in any areas of interest, which causes significant uncertainty about the distributions of reservoir and seal rocks, career bed, and source rock. In this talk, I will have a brief introduction on some 3-D modeling approaches in sedimentology for tackling the issues of constraining data, depositional concepts, and spatial and temporal scales in recent oil-and-gas industries.

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