

# **GEOCHEM Seals the Deal: Data to Support Your Ideas**

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## **Abstract**

This presentation provides a brief survey and review of the principal tools of petroleum geochemistry and suggests how they can be integrated with geology, geophysics, and petroleum engineering to reduce risk in petroleum exploration and development. This review is followed by the presentation of selected examples of recent data that illustrate 1) the interpretive resolution of conflicting data, 2) challenges to popular emerging paradigms regarding organic porosity, kerogen types, and thermal maturity, and 3) new ideas concerning productive hydrocarbon floors in deep basin settings.