

Westchase Hilton • 9999 Westheimer
Social 5:30 p.m., Dinner 6:30 p.m.

Cost: \$28 Preregistered members; \$35 non-members & walk-ups

The HGS prefers that you make your reservations on-line through the HGS website at www.hgs.org. If you have no Internet access, you can e-mail reservations@hgs.org, or call the office at 713-463-9476 (include your name, e-mail address, meeting you are attending, phone number and membership ID#).

by Marc H. Helsinger
Hamman Oil and Refining

The Deliberate Search for the Seismic Stratigraphic Trap

Seismic stratigraphic analysis plays a critical role in the complete integration and evaluation of exploration and development projects. Despite being available for over 25 years, seismic stratigraphic analysis is not sufficiently utilized. This analysis leads to better delineation of depositional environments, reservoir geometry and porosity trends. Many trends and prospects with potentially substantial reserves onshore and offshore Texas and Louisiana Gulf Coast have gone unrecognized as a result of a lack of a completely integrated analysis.

Despite being available for over 25 years, seismic stratigraphic analysis is not sufficiently utilized.

Polytechnic Institute in stratigraphy and sedimentology (of clastics and carbonates). He has been strategically involved for 25 years in using sequence and seismic stratigraphic techniques to develop new trend plays and generate oil and gas prospects. He is an AAPG Certified Petroleum Geologist, State of Texas Licensed Geologist, former National Science Foundation Fellow and National Defense Fellow.

There is an industry perception that a shortage of available conventional large potential prospects exists. Less than 5% of all wells drilled in the last 50 years were to depths greater than 15,000 feet. Implementation of seismic stratigraphic analysis combined with multi-attribute processing can provide a competitive advantage. Seismic interpreters are deluged with huge volumes of data as advances in seismic attributes have increased the number of volumes with multiple attribute data sets. The result is a data management and interpretation challenge for the oil industry. Seismic stratigraphic analysis is a rapid data-mining tool that is key to finding unrecognized new plays and prospects. ■

Biographical Sketch

MARC H. HELSINGER is Exploration Manager with Hamman Oil and Refining. He has over 30 years of exploration experience in the Texas and Louisiana Gulf Coast onshore and offshore with Amoco, Anadarko, Samson, L.L.E and Burlington Resources. He received a BS in marine geology from City College of New York and an MS and PhD from Rensselaer

