Tuesday, March 21, 2006

HGS Northsiders Luncheon Meeting

The Sofitel Hotel • 425 Sam Houston Pkwy. North
Social 11:15 a.m., Luncheon 11:30 a.m.

Cost: $31 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 ***Anthony E. D'Agostino (speaker)****
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Facies and Sequence Stratigraphy of the Abo Formation in the Kingdom Field Area, Terry and Hockley Counties, West Texas

Study of conventional cores, well logs and seismic data in the Kingdom Field and other parts of the Abo shelf complex trend in eastern New Mexico and west Texas has led to new concepts about the style of deposition and techniques for stratigraphic subdivision of the Leonardian Abo Formation. The implications of paleogeographic restoration of the Abo shelf, combined with detailed description and interpretation of conventional cores from nine wells in Kingdom Field, has resulted in the identification of four important depositional facies that have significant control on reservoir character: supratidal/terrestrial (up-dip and top seal), intertidal (reservoir grainstones), platform interior (reservoir barrier) and shelf-edge (secondary reservoir). A fifth facies, karst breccia, is also defined. This study reveals that the most productive facies in Kingdom Field (and along the trend) is the intertidal facies (peloid grainstones), not the shelf-edge facies (boundstone reef). High-resolution stratigraphic analysis combining Fischer plots, well log cross-sections, and 3D seismic data shows that at least three third-order sequence boundaries, associated with exposure of the shelf and significant karsting, are intraformational in nature.

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Biographical Sketch

ANTHONY D'AGOSTINO is currently a Geologic Advisor for OMNI Laboratories in Houston. He has also worked for Atlantic Richfield, TD Geoscience and Petroleum Geoservices (PGS) in both the domestic and international areas. He received his BS in geology from Illinois St. University in 1978, and his MS from Northern Illinois University in 1980. Since completing his graduate research on Neogene benthic foraminifers of the Ross Sea Antarctica, his attention has been focused on projects in bio-, litho- and sequence stratigraphy, clastic and carbonate sedimentology, and reservoir characterization. Major projects include studies of Miocene sand systems of the Gulf of Mexico, Paleogene Wilcox Group of the Gulf Coast, Oligocene of the Burgos Basin in Mexico, Eocene Misoa Formation of west-central Venezuela and several Paleozoic intervals of the Permian Basin and the U.S. mid-continent. He has published (singly or with co-authors) numerous biostratigraphy papers.

Over the past 2.5 decades Tony has been leader or co-leader of numerous ARCO, AAPG and SEPM field trips. He is a member of and has served in many leadership positions in AAPG, SEPM (national, Gulf Coast and Permian Basin sections), West Texas Geological Society, Houston Geological Society, the Pander Society and, the North American Micropaleontology Section of SEPM (NAMS), for which he was Secretary from 1996 to 2000.