

---

---

## ENVIRONMENTAL/ENGINEERING GEOLOGISTS

### HGS ENVIRONMENTAL/ENGINEERING COMMITTEE LUNCH & DINNER MEETINGS—FEBRUARY 10, 1993

#### LUNCHEON:

**Place:** Houston Community College  
Lecture Room 151, San Jacinto Bldg  
1300 Holman at San Jacinto

**Time:** 12:00 - 12:15 Social  
12:15-1:15 Program

#### DINNER:

**Place:** Italian Market and Cafeteria  
2615 Ella Blvd.  
(Located behind NW Memorial Hospital  
just south of 610 North Loop)

**Time:** 6:00 - 6:30 Social  
6:30 - 7:30 Program

After the Dinner meeting the Career Change Networking Group will meet for 30 minutes or less.

#### PETER K. TRABANT-Biographical Sketch

Dr. Trabant has been an independent consultant in marine geology and geophysics to the offshore petroleum industry for the past 18 years. He received his Ph.D. and M.S. degrees in geological oceanography from Texas A&M, and his B.S. in geology from the University of Miami. His work involves the interpretation of multi-sensor geophysical data for the installation of offshore structures and pipelines, and the production of environmental and engineering reports for regulatory agencies. His clients include major and independent oil companies, engineering and geophysical service companies, while his activities have been worldwide. His secondary activities involve teaching and research on the applications of seismic sequence stratigraphy to high resolution geophysical data in: petroleum exploration; reservoir studies; seafloor engineering; and paleoclimatology. He is the author of the textbook: *Applied High Resolution Geophysical Methods: Offshore Geoengineering Hazards* with Prentice-Hall.

#### PLEISTOCENE CLIMATES, SEA LEVEL AND THE SEISMIC STRATIGRAPHIC RECORD.

High-resolution seismic records from the northern Gulf of Mexico reveal the fine-scale details of the seismic stratigraphy at the shelf edge and within deep water depositional environments. The high frequency records, commonly used for offshore engineering studies, provide an excellent tool towards understanding the detailed relationship between climate, sea level and the resulting seismic stratigraphy. Applications include: paleoenvironmental studies, reservoir engineering, petroleum exploration and the assessment of sea floor engineering properties.

Quality high-resolution seismic records permit the correlation between small scale climatic changes and the 3-D configuration of sedimentary deposits, including systems tracts and short term events such as slumping and diapiric movements.