



# SAN DIEGO ASSOCIATION OF GEOLOGISTS

## MEETING NOTICE

January 22, 1986 (Wednesday)

1986 Executive Committee

### Chairperson

Tom Kuper  
Geocon, Inc.  
9530 Dowdy Drive  
San Diego, California 92116  
(619) 695-2880

### Vice-Chairperson

John Franklin  
Leighton and Associates, Inc.  
4393 Viewridge Avenue, Suite D  
San Diego, California 92123  
(619) 292-8030

### Secretary

Jim Glaze  
American Geotechnical  
5755 Oberlin Drive, Suite 104  
San Diego, California 92121  
(619) 457-2711

### Treasurer

James R. Evans  
Engineering Geology Consultant  
2926 Harris Drive  
Vista, California 92084  
(619) 758-3176

**Speaker:** Bob McEuen. Dr. McEuen and his associates currently provide advanced geophysical interpretation support to the geothermal and petroleum industry. Recently they have been applying their proprietary analysis techniques to ground water monitoring problems. Dr. McEuen is an Emeritus Professor at SDSU and one of the early Directors of SDAG.

**Topic:** **Abstract:** MAKING THE MOST OF SURFACE COLLECTED ELECTRICAL DATA

The use of surface collected electrical data has recently come to the fore, principally because the electrical properties of saturated rock are the only properties directly related to chemical composition. Thus, electrical surveys offer the only way to map contamination plumes in ground water. Unfortunately, earth models derived from such measurements alone are never unique. We will demonstrate, however, how the use of constrained inversion can largely eliminate model ambiguity caused by equivalence and lack of resolution. We will also show how the use of synoptic 3-D color displays allows the detection of subtle changes in rock property. Slides will be presented that show how all the necessary modeling for 1-D problems can now be carried out in-the-field in "real-time" to produce output which is simply a log of "true" resistivity versus depth. Data recently processed in this way for a site in the Mojave Desert will be discussed.

**Place:** Cafe Del Rey Moro  
La Granada Room  
1549 El Prado (End of Laurel Street)  
Balboa Park  
San Diego, California

**Time:** 6:00 - Social Hour  
7:00 - Dinner (Promptly at 7:00)  
8:00 - Meeting, Lecture, and Discussion

**Menu** Green Salad  
Carne Asada  
Spanish-Style Rice  
Zucchini with Herbs  
Tortillas and Butter  
Coffee or Tea  
German Chocolate Cake

**Cost:** \$13.50 per person

**Reservations:** By noon Monday, January 20, at 457-2711. "A reservation made is a reservation paid." Checks are appreciated. Reservations after noon, January 20, cannot be accepted; however, you may still attend the meeting and take your chances regarding seating, etc.