



SAN DIEGO ASSOCIATION OF GEOLOGISTS

1995 EXECUTIVE COMMITTEE

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MEETING NOTICE

Wednesday August 16th, 1995

Location	Qwiigs Bar and Grill 5083 Santa Monica Avenue Ocean Beach (619) 222-1101	Time	Social Hour 6:00 Dinner 7:00 Program 8:00
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Dinner House Salad, Chicken Breast Stuffed with Rosemary and Chevre, Served with a Jalpeno Glaze, Roasted New Potatoes, Creme Brulee; Beverage.

Cost \$ 20 (Please make check payable to SDAG).

Reservation Required by 5:00 p.m. Tuesday August 15th. Please call Tissa at (619) 260-4099 for reservations. Leave Name, Number in party, and Affiliation. Please call Tissa if you need to cancel your reservation. If you have any special diet requirements (i.e. vegetarian), contact Phil Rosenberg at (619) 454-2313.

Topic The Myth and Reality of Southern California Beaches.

Speaker: Dr. Reinhard E. Flick, California Department of Boating and Waterways, and Center for Coastal Studies, Scripps Institution of Oceanography, La Jolla.

Abstract

The beaches are the essence of California and provide its most important aesthetic and recreational asset. Yet the widest sand beaches in Southern California have been created and are maintained by human activity. Human interventions include massive amounts of sand placement and construction of groins, jetties and breakwaters. These structures compartmentalize and stabilize the artificial beaches. These ideas seem "radical" to many Californians who often regard any engineering works on the beach as an unnecessary intrusion into nature, regardless of the type or degree of development in the upland.

First, we consider the coastal setting of southern California. The geological framework, particularly the tectonic history of the area, defines the region's geography, in turn divides the region into a number of coastal compartments called littoral cells. The littoral cell concept is useful in discussing sand budgets, since the geographical compartmentalization inhibits sand exchange between cells.

Second, we compare the sediment supply brought to the shoreline naturally and by human activities. This shows that the average rate of nourishment over the past 50 years dwarfs the river sand supply in the Santa Monica and Silver Strand littoral systems. In the remaining coastal area south of Ventura, artificial nourishment has been roughly equal to the natural supply. Only the Santa Barbara littoral cell does river yield greatly outweigh sand nourishment. By now over 100 million cubic meters of sand have been placed on southern California beaches by human activity.

The final, more subtle point concerns the fact that, in all area, the rate of artificial supply has decreased dramatically over the past 30 years. On many beaches, wave-induced transport now removes sand faster than it is being replaced. For this reason beaches previously widened by nourishment are now in retreat at a rate greater than that prevailing under more natural, but now acceptably narrow configurations. This situation, along with occasional catastrophic events, like the winter of 1982-83, are the basis for the public's perception that the beaches are rapidly retreating.

ANNOUNCEMENTS:

1. 1995 SDAG Field Trip: The 1995 annual San Diego Association of Geologists field trip to Anza Borrego Desert on October 21 and 22 will be lead by Paul Remeika, Paleontologist, Anza Borrege Desert Park. More information in September NewsLetter. For additional information please contact Anne Sturz (voice 619 26-4096; fax 619 461-2644; email address - asturz@teetot.acusd.edu]
2. 1995 SDAG Picnic: There will be no September meeting. Instead, we will meet at the annual SDAG picnic on September 9th.
3. The October SDAG meeting will be held on Wednesday October 18. The speaker will be a representative of the Geophysical Group presenting on a recent project utilizing geophysics. Location will be announced.
4. November Meeting will be on Wednesday the 15th, at the Spaghetti Factory. Plan for the annual Poster Session.
5. December Meeting will be on Wednesday the 13th, at the Natural History Museum.
6. 1995 MEMBERSHIP forms will be available at the July Meeting. If you have not renewed your membership yet, please do so then. Your membership dues support printing and mailing of the newsletter, student scholarships, the annual field trip, and the annual picnic. We appreciate your continued support.
7. Corporate and Personal Sponsors: THANK YOU!
Allied Geotechnical Engineers, Joe Corones, William J. Elliott, Earth Resource Mapping, F & C Drilling Company Inc., Gallagher Drilling Service, Geotechnical Exploration, Inc., Group Delta Consultants Inc., Hargis + Associates, Barbara Johnston, The JMA Group of Companies, Perry and Nona Crampton, Robertson Geotechnical, Inc., (Gail) Fast Eddie Hammond, Dr. Anne Sturz, Tony Sawyer - Consulting Hydrogeologist, Transglobal Environmental Geochemistry, TPS Technologies Inc., Woodward-Clyde Consultants, Zeiser-Kling Consultants, Carole Ziegler, Soil Wash Technologies.
8. Deadline for announcements to be included in the September Picnic Announcement Friday 25th, 5 pm. Please submit your items in writing to Tissa Munasinghe (8929 Scorpius Way, San Diego, Ca 92126), or fax to (619) 260-6804.
9. Fill your gap in knowledge with SDAG publications! Order form is on the other page.

