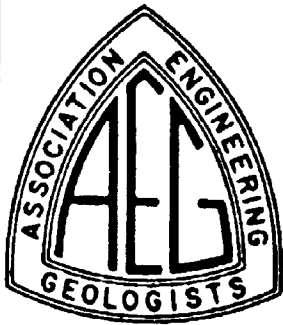


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Southern California Section NEWSLETTER- November 1993

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(Full-Time Students \$10/year)
(818) 796-9141
(818) 568-6103 FAX
c/o Montgomery Watson
301 North Lake Avenue
Suite 600
Pasadena, CA 91101

Dinner Meeting - Tuesday, November 9

- The Quiet Cannon Restaurants
901 North Via San Clemente
Montebello
- Cost - \$20.00 (Full-Time Students - Free)
- Make reservations by Friday November 5!!!
Geosoils (818) 785-2158
(Leave Your Name & Number of People in Your Party)
- 5:30 Social Hour
- 6:45 Dinner

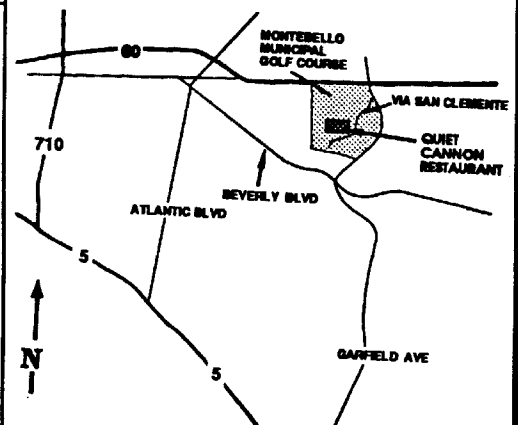
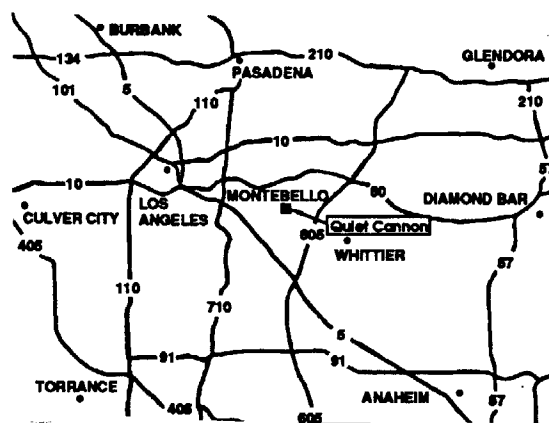
Program

Remediation of TCE and Chromium Contamination in a
Fractured Aquifer at a RCRA Site:
A Case Study

by

Donald L. Marcus, R.G.
EMCON Associates

Map to Meeting



PROGRAM Topic & Speaker

Topic: "Remediation of TCE and Chromium Contamination in a Fractured Aquifer at a RCRA Site: A Case Study"

Speaker: Donald L. Marcus, R.G.

Groundwater cleanup efforts at the Talley Facility (Talley) located in Newbury Park, California are currently being overseen by U.S. EPA Region 9 (EPA) under the Resource Conservation and Recovery Act (RCRA) Corrective Action Authority (3008H). The groundwater remedy is tailored to the unique site conditions and acknowledges the uncertainties inherent in the remediation of a fractured bedrock aquifer that has been impacted by dense non-aqueous phased liquids (DNAPL) and chromate compounds. The remedy emphasizes plume and source control to protect receptors, and offers flexibility to modify the remedy as improved methods in remediation DNAPL sites become available.

Talley manufactured aircraft parts from 1956 until 1989, at which time the facility was closed and the buildings removed. Talley generated liquid hazardous wastes from plating and metal cleaning operations that were discharged to a leach field in the late 1950's and early 1960's and thereafter to a cement lined surface impoundment. Cracks were discovered in the surface impoundments in 1983.

A recently expanded treatment system was installed in 1989 as an interim measure to prevent expansion of the groundwater plume. The treatment system uses chemical precipitation and microfiltration to remove the chromates and air stripping to remove the TCE. The extracted groundwater, approximately 2,000,000 gallons per month, is treated to drinking water standards and discharged.

An ongoing concern for the site is the possible existence of undissolved TCE residuals in the vadose zoned and aquifer matrix. A vapor extraction test is planned to evaluate if TCE residual can be effectively removed from the site subsurface by a vapor extraction system (VES). It is hoped that the removal of TCE residuals by VES, coupled with other source control measures, will

Section News

At the September 13 joint AEG/SCGS meeting, Woody Higdon of Geo-Tech Imagery Inc., provided pictorial evidence and a discussion on Degradation of the Landers Fault Scarps. In many areas, the trace of the fault has been obliterated and in other places severely degraded by slumping/sluffing and infilling by wind-blown sand, but mainly by bioturbation (grading, sightseers, geologists, ORV's). In addition, Woody compiled most of the mapping that has been completed and showed us some interesting surface fault-rupture patterns. Branching and en-echelon patterns were common, but the ruptures that occurred at an angle of 90 degrees to the main trace (where it curved) were eye-opening.

Dallas Peck, the scheduled speaker, had to cancel and Woody filled in at the last moment. Great talk Woody, and thank you.

Scena N. Hoose has been appointed by the Governor to the Board of Registration for Geologists and Geophysicists. Scena is currently the Manager of AEG's Ethics and Professional Practices Committee and is employed by the Santa Clara Valley Water District. Congratulations Scena!

The Dibblee Medal

The Thomas Wilson Dibblee Jr. Geological Foundation (Dibblee Geological Foundation) has established the Dibblee Medal in recognition of the unique contributions of Tom Dibblee to the science of geologic mapping. The medal is to be awarded at least biennially to a geologist whose published geologic mapping is exceptionally noteworthy.

The award will consist of an attractive sterling silver medal bearing the likeness of Tom Dibblee; and on the obverse side, a sketch map of California, the geology of which has been Tom's domain for 60 years. A plaque suitable for wall hanging will accompany the medal.

Nominations of candidates to be considered for award of the Dibblee Medal are now being solicited. Nominations should include the name of the candidate, biographical data, a description of the geologic mapping, and the names of at least two geologists who support the nomination. Mail each nomination and supporting data by March 1, 1994 to:

Dibblee Geological Foundation
P.O. Box 60560
Santa Barbara, CA 93160

The first Dibblee Medal will be awarded at the Pacific Section of AAPG in May 1994, at Ventura, California.

The Dibblee Foundation is a nonprofit corporation chartered in California in 1983 for the purpose of publishing Tom Dibblee's geologic mapping. To date, the Foundation has published 47 maps covering sixty-five 7 1/2-minute quadrangles with several hundred more awaiting publication.

CHAIRMAN'S COLUMN

by
James O'Tousa

The AEG Annual Meeting is scheduled for October and there will not be a Southern California Section Meeting. Our next meeting will be November 9, at the Quiet Cannon, Montebello and attendees will notice a few changes for our Section.

A bulletin board will be set up to be used for notices and newsletters. We plan to post the San Francisco and Sacramento Section Newsletters. Hopefully, we can stay current with the newsletters.

We will also start raffling publications at the November meeting. A listing of the raffle publication will be placed in the newsletter. Many of the publications are out of print.

The 1994 AEG Annual Dues Statements are arriving in the mail. Please pay the dues promptly to avoid the expense of a second mailing.

As always, the Southern California Section is looking for a few good people to help gather information and provide exposure for the association. There are presently two committee chair positions available; Public Relations and Field Trips. For more information, please contact Jim O'Tousa (818) 993-1211. Additional people are welcomed to provide support for all the committees depending on your preference.

Also, a call for AEG members in the San Diego Area to provide assistance to Diane Murbach (619) 275-1462 regarding the city of San Diego Grading Specifications and Zoning Code Update. These workshops and code requirements could impact our profession.

The California State Registration exam was administered on September 20 and 21. We wish a lot of success for the Southern California geologists who participated in the new exam format.

I hope to see a strong showing of Southern California Geologists at the Annual Meeting in San Antonio.

SECTION COMMITTEE CHAIRS

Professional Registration:
Bob Hollingsworth (818) 889-0844

Public Relations:
Unfilled

Legislative Affairs:
Hugh Robertson (818) 373-0057

Field Trips:
Unfilled

Short Course:
Deems Padget (818) 568-7000

Education:
Kelly Rowe (714) 979-7790
Kathy Williams (310) 597-3977

THIS IS IT, FOLKS!

Three Important New Geologic Maps from the Dibblee Foundation

In late November, the Dibblee Geological Foundation will publish three crucial geologic maps by Tom Dibblee in the central Santa Monica Mountains, the Malibu Beach, Point Dume and Thousand Oaks quadrangles. These three maps will complete the first published bedrock geologic mapping of the entire Santa Monica Mountains and surrounding areas at a uniform 1:24,000 scale. For the first time ever, this entire region has a coordinated stratigraphy and structure as mapped and interpreted by one man!

These new maps include areas of rapid urbanization and large-scale residential development and will be of special interest to engineering geologists and planners. We ask for your financial assistance in getting these maps printed, because funding for our publication effort comes primarily from corporate and individual donors. This is a unique opportunity for you or your organization to support this work, because it is also the last opportunity to participate in publishing geologic maps of the Santa Monica Mountains. We will acknowledge in print any individual or corporate contribution of \$500/\$1000, respectively, and your support can be made in your name, or in the honor or memory of any individual you select. Your contribution will be tax deductible.

For further information about this project or your assistance, please contact Helmut Ehrenspeck, Editor, Dibblee Geological Foundation, P.O. Box 60560, Santa Barbara, Ca 93160. Telephone (805) 968-0481.

Footnote: We are also publishing the Val Verde quadrangle (Los Angeles/Ventura Co.) at the same time. This is a geologically interesting area containing several major old oilfields, and it borders major traffic corridors, Freeway 5 and Hwy 126 near Castaic Junction. This is the first of several geologic maps in the Santa Clarita Valley region which we hope to publish in 1994-1995, and which will be of special interest to the residential development and environmental remediation folks. Your support on this map is also welcome.

BOOK SALE

Association of Engineering Geologists, Southern California Section

- Blake, T., and Larson, R.A., Eds., 1991, Engineering Geology along the Simi-Santa Rosa fault system and adjacent areas, Simi Valley to Camarillo, Ventura County, California: Guidebook for the Southern California Section of the Association of Engineering Geologists Annual Field Trip, August 24, 1991, Volumes 1 and 2, 383 pgs., 4 map sheets. \$40.00
- Buckley, C.I., and Larson, R.A., Eds., 1990, Geology and Engineering Geology of the western Soledad Basin, Los Angeles County, California: Guidebook for the Southern California Section of the Association of Engineering Geologists Annual Field Trip, November 3, 1990, 185 pgs., 2 map sheets. \$25.00
- City of Los Angeles, 1982, Geologic Maps of the Santa Monica Mountains, Los Angeles, California: 333 map sheets at 1" = 400', compiled by the Bureau of Engineering, Department of Public Works, City of Los Angeles, reprinted by the Southern California Section of the Association of Engineering Geologists, 342 pgs. \$26.00
- Lamar, D.L., 1978, Geologic Guide and Engineering Geology Case Histories, Los Angeles Metropolitan Area, Southern California Section of the Association of Engineering Geologists. First Annual Section May 12 - 14, 1978; 174 pages
- Leighton, Beach F., 1992, Mitigation of Geotechnical Litigation in California, Munson Books. \$44.00
- Shlemon, R. J. Applications of Soil Stratigraphy to Engineering and Environmental Geology, Association of Engineering Geology, Southern California Section Short Course Notes, June 5, 1993. \$35.00
- Sieh, K.E. and Matti, J.C., October 3-4, 1992, Earthquake Geology San Andreas Fault System Palm Springs to Palmdale, 35th Annual AEG Meeting, Guidebook and Reprint Volume. \$25.00
- Ehlig, P.L. and Steiner, E.A. Editors, October 2-9, 1992, Engineering Geology field Trips: Orange County, Santa Monica Mountains and Malibu. 35th Annual AEG Meeting, \$25.00 **Optional Map and Cross Section of Big Rock Mesa \$15.00
- Stout, M. L., Editor, 1992, Association of Engineering Geologists, Proceedings for the 35th Annual Meeting, October 2-9, 1992, Los Angeles, California. \$40.00
- Scullin, M.C., 1983, Excavation and Grading code Administration, Instruction, and Enforcement, Prentice-Hall, Inc. \$25.00
- Stout, M.L., 1976, Geologic Guide to the San Bernardino Mountains, Southern California. Guidebook for the Southern California Section of the Association of Engineering Geologists Annual Field Trip, May 22, 1976; 115 pages \$11.00
- Shurman, G. and Slosson, James, 1992, Forensic Engineering, Environmental Case Histories for Civil Engineers and Geologists, Academic Press, Inc. \$49.95
- Pipkin, B.W. and Proctor, R.J., Editors, 1992, Engineering Geology Practice in Southern California, Star Publishing \$79.95 plus a special charge of \$5.00 shipping and handling.

Books are available from: Bill LaChapelle, Publications Chairman, AEG Southern California Section. c/o Cal-Geo Corporation, 380 Thorpe Circle, Thousand Oaks, California 91360. Telephone (805) 374-9721; FAX (805) 496-5244. Make checks payable to AEG Southern California Section. Please add 8.25% sales tax and the following postage/handling charges: \$2.50 for the first book and \$0.50 for each additional book.

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Fall 1993

New Dibblee Geological Foundation Maps of the SANTA MONICA MOUNTAINS

AND SURROUNDING AREAS OF VENTURA AND LOS ANGELES COUNTIES, CALIFORNIA

DF-13 1987 OJAI	DF-26 1990 SANTA PAULA PEAK	DF-27 1990 FILLMORE	DF-34 1992 PIRU	DF-50 Nov. 1993 VAL VERDE	DF- 1994 NEWHALL	DF- 1994 MINT CANYON	DF- 1994 AGUA DULCE	DF- 1994? ACTON
DF-42 1992 SATICOY	DF-41 1992 SANTA PAULA	DF-40 1992 MOORPARK	DF-39 1992 SIMI	DF-38 1992 SANTA SUSANA	DF-36 1992 OAT MOUNTAIN /	DF-33 1991 SAN FERNANDO /	DF-32 1991 SUNLAND /	DF- 1994? CONDOR PEAK
(OXNARD)	DF-28 CAMARILLO / 1990	NEWBURY PARK	DF-49 THOUSAND OAKS Nov. 1993	DF-37 CALABASAS 1992	CANOGA PARK N 1/2	VAN NUYS N 1/2	BURBANK N 1/2	DF-23 PASADENA 1989
	DF-29 POINT MUGU / 1990	TRIUNFO PASS	DF-48 POINT DUME Nov. 1993	DF-47 MALIBU BEACH Nov. 1993	DF-35 CANOGA PARK S 1/2 / 1992	DF-31 VAN NUYS S 1/2 / 1991	DF-30 BURBANK S 1/2 / 1991	DF-22 LOS ANGELES 1989

Nov. 1993

4 Maps ready to print;
we need your support

1991

Published Santa Monica
Mtns. area maps

Other nearby
Dibblee Fnd. maps

Maps not (yet) published
by Dibblee Foundation

The Santa Monica Mountains of Ventura and Los Angeles counties are covered by 9 Dibblee Foundation 1:24,000-scale geologic maps. These maps are published so as to retain the integrity and continuity of physiographic and geologic features of this region. Six of these maps are now available, the last 3 to complete this series (and the nearby Val Verde quadrangle) will be printed in November, 1993.

For further information, please contact Helmut Ehrenspeck, Editor

Dibblee Geological Foundation, P.O. Box 60560, Santa Barbara CA 93160 (805) 968-0481

The Dibblee Geological Foundation is a California non-profit educational organization. Contributions are tax-deductible.

Seminars/Meetings/Field Trips

November 1993

- 6-7 **SDAG field Trip Colorado Desert/Salton Trough area.** CONTACT: Joe Coronas (619) 492-5034
- 9 **Southern California Section AEG meeting, The Quiet Cannon, Montebello.** CONTACT Geosoils (818) 785-2158
- 13-14 **"Grading and Inspection Seminar", Whittier, CA.** Taught by Mike Scullin and David Rogers of Rogers/Pacific. Cost: \$250.00, Contact ICBO's Education Committee at (310) 699-0541.

December 1993

- 14 **Southern California Section AEG meeting, The Quiet Cannon, Montebello.** "Prototype for a Worldwide Landslide Mapping Project" by Earl Brabb, USGS

Call for Papers

1994 AAPG Pacific Section Convention, Ventura, California - April 1994

Authors are invited to submit original work for either oral or poster sessions. Abstract topics can include, but are not restricted to the following:

- | | | | | | |
|---|----------------------------------|---|---------------|---|--------------|
| ◇ | Geology and/or Petroleum Geology | ◇ | Geophysics | ◇ | Petrophysics |
| ◇ | Economics | ◇ | Environmental | | |

All abstracts are due November 15, 1993. For more information, including abstract format, please contact John R. Powell, c/o Fugro-McClelland at (805) 650-7000.



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