

# ASSOCIATION OF ENGINEERING GEOLOGISTS

SOUTHERN CALIFORNIA SECTION

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JUNE 1996

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805.388.6162

## THIS MONTH'S MEETING

June 11, 1996

### Folds, Faults, Fills, and Foundations at The Getty Center

*presented by*

**Larry R. Rapp and Phillip J. Shaller**

Reservations must be made by **Friday, June 7!**  
Call GeoSoils at (818) 785-2158

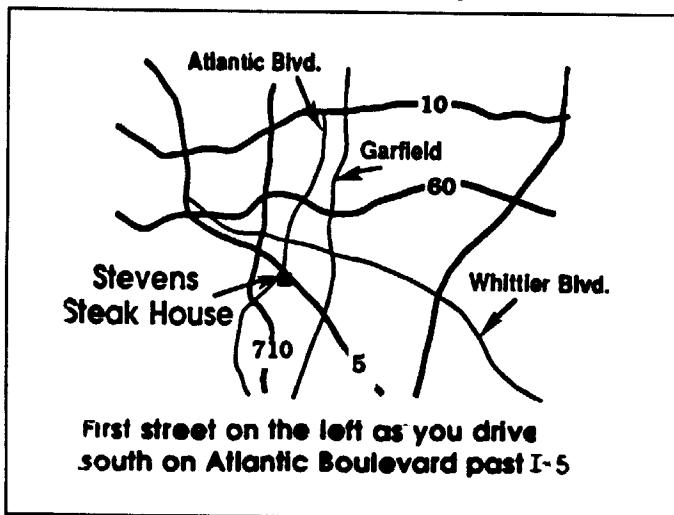
**Social Hour: 6:00 pm**  
**Dinner: 7:00 pm**  
**Meeting: 8:00 pm**

**Location:**

**Stevens' Steak House**  
**5332 Stevens Place**  
**City of Commerce**

**Cost: \$20.00**  
**(\$10.00 for full-time students with valid I.D.)**

Map to Meeting



**Deadline for submittals to the August newsletter: July 19**

## JUNE PROGRAM

### Folds, Faults, Fills, and Foundations at The Getty Center

Larry R. Rapp, GE, and Phillip J. Shaller, CEG

*Woodward-Clyde Consultants  
2020 E. First Street, Suite 400, Santa Ana, CA 92705*

**C**onstruction of the Getty Center has been underway in Brentwood since 1989. The Getty Center sits on top of a prominent south-trending ridge in the geologically complex Santa Monica Mountains. Three geologic formations underlie the site. These formations have complex and variable lithologies and have been folded and intensely faulted by tectonic forces. The Benedict Canyon fault traverses the site, and potentially unstable slopes and pre-existing landslides were also present prior to construction.

The site work includes a 70-foot deep parking structure within 40 feet of the 405 freeway, a 3600-foot long elevated tramway, and the main museum complex which encompasses 15 acres at the top of the ridge line. Mass grading operations involved cutting multi-level building pads from 30 feet to 85 feet below the original topography, with resulting cut slopes up to 45 feet high. Excluding the amount of overexcavation of landslide material, about 1.2 million cubic yards of soil and bedrock material are being moved at the site.



Dr. Shaller joined Woodward-Clyde in 1991, and has been an engineering geologist at the site ever since. He received his B.S. in geochemistry from Occidental College in Los Angeles (1983), an M.S. in geochemistry from Montana College of Mineral Science and Technology (1985), and his Ph.D. in geology from CalTech Pasadena (1991). He is a registered geologist and a certified engineering geologist in California. He has made several presentations and published professional papers concerning landslides, debris flows, and the Benedict Canyon fault.

Larry Rapp joined Woodward-Clyde in 1985, and is the senior project engineer for the Getty Center project. Mr. Rapp received a B.A. in Spanish from UCI (1983), a B.S. in civil engineering from UCI (1984), and an M.S. in geotechnical engineering from UCLA (1985). Mr. Rapp is a registered geotechnical engineer in California. He co-authored a paper on the Getty Center for the 35th Annual Meeting of the AEG.  $\phi$

## CHAIRMAN'S COLUMN

by Joe Cota

The major focus of AEG's legislative efforts this past month has been to defeat the Department of Consumer Affairs recommendation to change the Geology Act from a practice act to a title act. The initial strategy has been to assure the Ayala-Boatwright SB 2 was not amended to include the new DCA recommendations. This, so far, appears to have been successful. Many thanks to Joe Cobarrubias, City of Los Angeles Grading Division and David Poppler and Lynn Nicholson, L.A. County Materials Engineering for preparing, on very short notice, letters to the DCA

recommending that the practice act not be changed to a title act. These letters are very powerful as they come from agencies that probably review and approve more engineering geology reports than any other single agency in the state.

It appears that the DCA's next move will be to find another proposed Senate or Assembly bill to attach their new proposal to because it is now too late in the session for them to begin an entirely new bill. If and when they find some senator or assemblyman naive enough to carry their rubbish, AEG will have to act

fast. Once we see the written contents of their proposal, we will have to respond by personally visiting our representatives. Past president Bob Tepel, Judy Wolen, and myself are now working on a one page

"bullet list" of top reasons why the public could suffer from elimination of the practice act. This can be handed by small groups of AEG members when they meet with. If you have any good one liners, please send them to me ASAP or give me a call. Welcome new members to the Southern California Section: Ed Burrows, Mary Ginskey, Richard Gorman, Stephen Guerre, Eirik Haenschke, Pat Jenks, Robin Kim, Scott Lindvall, Anthony Martin, Steven Martindale, Alix Parisky, Greg Raymer, K. Mason Redding, Ed Riddell, Michael Tiffany, James Van Meter, John Whitney, and Shanin Ziemer.

Please stop by and introduce yourselves at our next meeting at Stevens' Steak House, it could be worth a beer!

We need to all start thinking about our next field trip. Any suggestions? Maybe a San Gabriel or San Bernardino Mountains field trip? By the way, South Coast Geological Society is planning a several day trip to Anza Borrego State Park in the fall.

We also need to start thinking about future short courses and all ideas are welcome. What would you like to learn more about? Contact Sue Tanges with your thoughts.

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## JOB OPPORTUNITY

The Department of Geology at Radford University is initiating a Master of Science Program in Engineering Geosciences in Fall 1996. Applications are invited for a full-time, tenure-track position within the broadly defined area of engineering geosciences. This position will begin January 1997. The successful applicant will be expected to teach effectively at the undergraduate and graduate levels, supervise graduate research at the M.S. level, and initiate and maintain an active research program. A Ph.D. must be held at the time of appointment.

We seek a talented individual who will enhance the contributions of engineering geology to the department's applied program as a whole. Scientists with interests in such fields as soil mechanics, rock mechanics, surficial processes, environmental geochemistry, groundwater, and surface water processes, and technological applications such as GIS, remote sensing, and engineering geophysicists are encouraged to apply. The successful applicant will join an active department that will consist of eight tenure-track faculty members, one administrative faculty, and approximately 60 undergraduate majors.

Applicants for this position must provide a letter of application, current vita, copies of post-secondary transcripts, and three recent letters of recommendation. Applications should be sent to:

Dr. Stephen W. Lenhart, Chair  
Department of Geology  
P.O. Box 6939  
Radford University  
Radford, VA 24142

Consideration of applications will begin immediately and continue until the position is filled.

Radford University is an Equal Opportunity/Affirmative Action employer.

Minorities and women are encouraged to apply.  $\phi$

## COMPUTER CORNER

New Internet Mailing Lists

### GROUNDWATER and GROUNDWATER DIGEST

There are over 1900 members worldwide, with many USGS, EPA and Corps of Engineers members. If you have a groundwater question, we can help.

### GROUNDWATER

To subscribe to GROUNDWATER send e-mail to: majordomo@ias.champlain.edu

In the body of the e-mail type the command: subscribe GROUNDWATER

### SOME RECENT TOPICS COVERED IN GROUNDWATER

Groundwater-Digest Friday, 26 April 1996 Vol. 1 :No. 73

Re: Documented impacts of feedlots and dairies on ground water volatile contaminant extraction

Re: REFERENCES FOR SURFACE AND SUBSURFACE MODELS

UN-GWW

FW: NGWA Computer Workshop

RE: UN-GWW - Attention: Maina-Gichaba

CREAMS and GLEAMS

water ages

Groundwater-Digest Monday, 22 April 1996 Vol. 1 :No. 71

Where to drill groundwater well

Re: Logon's approximation

Re: contaminant retardation factors

Re: Where? EPA reports?

groundwater cost estimating

Large groundwater data mgmt deal

Re: Richard's equation

Paradoxane remediation

Distance Learning Courses in Subsurface Hydrology

REFERENCES FOR SURFACE AND SUBSURFACE MODELS

Re: WHAT ARE MICROVAL/g?

RETC Code etc.

Groundwater-Digest Wednesday, 17 April 1996 Vol. 1 :No. 068

TROXLER Sentry 200-AP

Dissolved Air Flotation

Automation of groundwater readings

MODELING SHORT COURSE ANNOUNCEMENT

Deuterated-BTEX Tracers

Re: Oxidative coupling?

Data Management Software

Re: water ages

Re: Surface seals of wells and pollution  
Deuterated organics correction

## GROUNDWATER-DIGEST

For those of you concerned with the high traffic on this list, the list is digested, you will get about one mail per day with all posts and the headers cut out. It is packed up by size. When the list gets over 40,000 characters it puts all the messages together, ships it off to any subscribers, and puts it in the archive directory.

You can see that we have several archives (over 70) so far by sending the following in the body of a message: index groundwater to:

listserv@ias.champlain.edu (or index groundwater-digest. They are the same for archiving). Then by sending 'get groundwater v01.n001' (no quotes) to the listserv you will get the first archive.

To subscribe to GROUNDWATER-DIGEST send e-mail to:  
majordomo@ias.champlain.edu

In the body of the message type: subscribe GROUND-  
WATER-DIGEST  
(no need for address or name in this command)

We hope to see you on our list.

Kenneth E. Bannister

President - BANNISTER RESEARCH & CONSULTING  
Owner - GROUNDWATER-DIGEST Mailing List  
<http://www.rovers.net/~dowser/>  
KenBannister@groundwater.com

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## GEOL 6353: INTRODUCTION TO MICROPALAEONTOLOGY

will be offered by *Internet* by the Department of Geosciences, University of Houston, in the Fall Semester 1996.

It is hoped that this online mode of distance education will provide a unique opportunity for interested persons who do not happen to live near a university offering micropaleontology courses, or who for other reasons are unable to enroll in a traditional on-campus course, to learn more about the interdisciplinary science of micropaleontology.

Course description: Micropaleontology is the study of microscopic fossils, especially of plants, animals, and protists. This course is an introductory survey of the major groups of microfossils, including calcareous, siliceous, phosphatic and organic-walled types (foraminifera, ostracodes, pteropods, calcareous nannofossils, radiolarians, diatoms, dinoflagellates, conodonts, etc.). The skeletal anatomy, biology, mode of life, and geologic history of these benthic and planktic, marine and nonmarine organisms will be reviewed. Applications of micropaleontology to interdisciplinary research in biostratigraphy, paleoecology, paleoceanography, paleoclimatology and environmental science will be featured.

The instructor will be Dr. Rosalie F. Maddocks, Professor of

Geosciences, University of Houston.

This course offers 3 semester hours of graduate credit in Geosciences. For information regarding the applicability of this credit to an advanced degree, the student should contact the institution offering that degree program.

Students must apply and be admitted to the University of Houston. It is expected that students will have completed a baccalaureate degree. A general familiarity with biological and geological principles is expected, which may have been gained in elementary Biology, Geology, Paleontology, or Oceanography courses.

The course will be conducted in English, and all students should have competence in reading and writing scientific English.

The course will be delivered by Internet, and all students must have an e-mail address. Telephone, Fax and Postal Mail may also be used as needed.

See also the following URL:  
<http://www.nsm.uh.edu/amicropaleo.html>

Prospective students are invited to contact one of the following people for more information.

Dr. Rosalie F. Maddocks, Professor  
Department of Geosciences  
University of Houston  
Houston, TX 77204-5503, U.S.A.  
Telephone: (713) 743-3429  
Fax: (713) 748-7906  
E-Mail: [rmaddocks@uh.edu](mailto:rmaddocks@uh.edu)

Ms. Gwendolyn Choice, Advising Assistant  
Geosciences Department  
University of Houston  
Houston, TX 77204-5503  
Telephone: 713-743-3401  
Fax: 713-748-7906  
E-mail: [gchoice@uh.edu](mailto:gchoice@uh.edu)

Ms. Melissa Cantrell, Coordinator  
West Houston Institute  
University of Houston  
4242 South Mason Road  
Katy, TX 77450  
Telephone: 713-395-2800 ext. 6070 Fax: 713-395-2629 E-mail:  
[cantrell@jetson.uh.edu](mailto:cantrell@jetson.uh.edu)

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The USGS Pasadena field office has recently changed their Web address.

The old address was: <http://aladdin.gps.caltech.edu/>  
The new address is: <http://www-socal.wr.usgs.gov/>

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Northridge earthquake photographs can be found at:  
<http://gldage.cr.usgs.gov/northtemp/execcsum.html>       $\phi$



# "Engineering Geology in the Metropolitan Environment"

## CALL FOR TECHNICAL PAPERS & EXHIBITORS

### The AEG Annual Meeting

September 24 to 29, 1996

Hosted by The New York-Philadelphia Section  
at the Hilton Hotel  
New Brunswick, New Jersey

#### PRESENTATION TOPICS

The suggested 1996 topics include:

- (1) Geologic Hazards and Engineering Geology
- (2) Urban Infrastructure Design and Rehabilitation
- (3) Environmental Ground-Water Hydrology
- (4) Remedial Technologies
- (5) Risk Assessment/Modeling
- (6) Risk Based Corrective Action
- (7) Setting Cleanup Goals and Standards
- (8) Regulatory Issues and Perspectives

Other topics will be considered and presentations based on Case Histories are encouraged.

Presentations will be limited to between 20 and 30 minutes each. Abstracts of up to 250 words should be faxed to the technical sessions coordinator listed below, by May 15, 1996. Between 6 and 8 invited papers will also be presented.

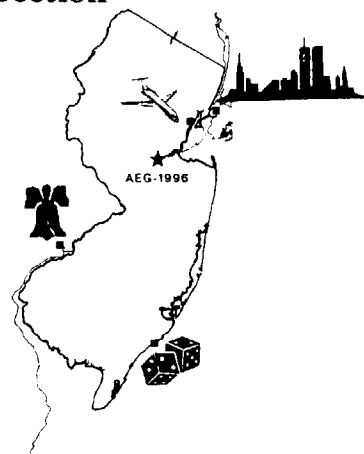
#### EXHIBITS

Exhibition space is limited to 25 booths (8 ft. x 8 ft.).

Rental price is \$750 for the three days

Each booth will include a table and chairs as well as a list of attendees.

A brief description of the planned exhibit, point of origin and special requirements should be faxed to the technical sessions coordinator listed below.



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Inquiring - General Information: David Muscalo  
(201) 383-2500  
FAX (201) 579-0025

---

Technical Sessions: Dan D. Raviv  
(201) 564-6006  
FAX (201) 564-6442

Publicity & Exhibits: William Fetter  
(914) 928-6531  
FAX (914) 928-9211

# FIVE YEARS AGO THIS MONTH!



## Association of Engineering Geologists Southern California Section NEWSLETTER- June 1991

**Eldon Gath**  
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(714) 860-7772 or  
(818) 965-4874

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(818) 965-4048

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(818) 709-3872

**Tony Stirbys**  
Membership Chairman  
(213) 362-6176

**Terri S. Beehner**  
Publications Chairman  
(714) 888-2422

**Tania Gonzalez**  
Secretary/Newsletter Editor  
12 Issues/year-\$25 to "AEG"  
(Full-Time Students \$10/year)  
(714) 860-7772  
(714) 860-1089 FAX  
c/o Leighton & Associaes  
1470 S. Valley Vista Dr. #150  
Diamond Bar, CA 91765

2550 Beverly Blvd.  
Los Angeles, CA 90057

### Dinner Meeting Tuesday June 11th

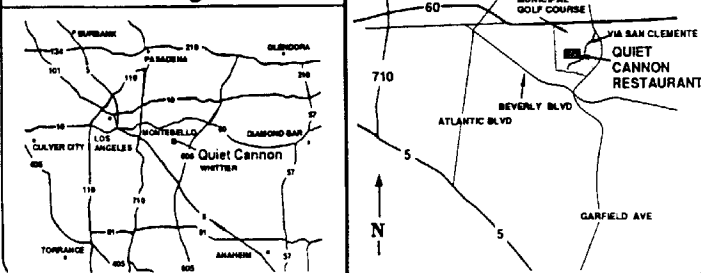
- The Quiet Cannon Restaurant  
901 North Via San Clemente  
Montebello
- Cost - \$20.00 (Full-Time Students - Free)
- Make reservations by Friday June 7th!!!  
Grace (Leighton & Associates) 714-860-7772  
(Leave Your Name & Number of People in Your Party)
- 5:30 Social Hour
- 6:45 Dinner  
7:30 Announcements
- 8:00 Program

### Program

**TOPIC** Remedial Investigation and Feasibility Study of Groundwater Contamination in the San Gabriel Basin

**SPEAKER** Jonathan Harris, Hydrogeologist/  
Geochemist with CH2M-Hill

#### MAP to Meeting



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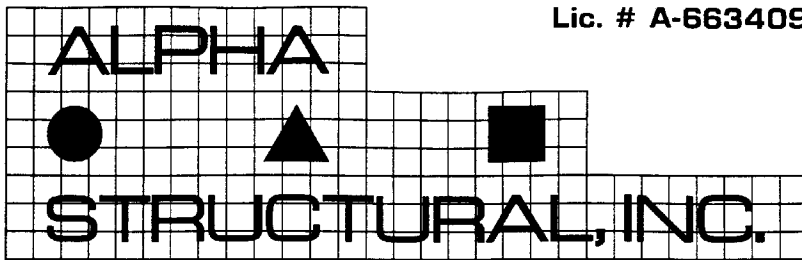
To: ZIP-A-DIP, 3891 Ashford Dr. Eugene, OR 97405

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## ❖ ATTENTION STUDENT MEMBERS ❖



For information and  
application forms,  
please contact:  
**Joseph Cota**  
Southern California AEG  
Section Chair  
c/o GeoSoils, Inc.  
6634 Valjean Avenue  
Van Nuys, CA 91406

### SCHOLARSHIP NOTICE

### *Martin L. Stout/SC-AEG Scholarship Award*

Southern California Section of AEG  
is now taking applications for the  
**Martin L. Stout/SC-AEG Scholarship Award.**  
The Scholarship is open to all student members  
of the Association of Engineering Geologists.  
An award of \$500.00 will be given to one student  
member in August, 1996.  
All student members are encouraged to submit  
an application.