



ASSOCIATION OF ENGINEERING GEOLOGISTS

Southern California Section

*"Serving Professionals in Engineering, Environmental,
and Groundwater Geology Since 1957"*

NEWSLETTER - MAY 2004

CCGO FUNDRAISER

Date: Tuesday, May 11, 2004
Location: Steven's Steak House, 5332 Stevens Place, Commerce, California
Time: Social Hour: 6:00 p.m.; Dinner: 7:00 p.m.; Presentation: 7:45 p.m.
Reservations: Call (949) 253-5924 ex 564, or email Brian Villalobos, by 5:00 p.m., Friday, May 7, 2004

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\$25 per person with reservations, \$30 at the door; \$12 for students with valid student ID.

Speaker: Dr. Tanya Atwater, U.C.S.B.

Title: Plate Tectonics of Western North America

Abstract: Dr. Tanya Atwater will illustrate in vivid images and computer animations, the tectonic development of western North America. Come and learn the tectonic origins of our favorite landscapes. See the San Andreas fault unfold before your eyes!

Biography: Dr. Tanya Atwater is a professor at U.C.S.B. She was educated at M.I.T., U.C. Berkeley and Scripps Institute of Oceanography, earning her PhD in 1972. She was a professor at the M.I.T. before joining the U.C.S.B. faculty.

Dr. Atwater's research in tectonics has taken her to the bottoms of the oceans and to mountains on many continents. She is especially well known for her works on the plate tectonic history of western North America and the San Andreas fault system. At UCSB, Dr. Atwater teaches geology and tectonics at all levels. She is also deeply involved in public education, working with the media, museums, and teachers to bring Earth information to all.

Dr. Atwater serves on numerous national and international committees and panels. She is a fellow of various professional societies, a co-winner of the A.A.S. Newcomb Cleveland Prize, a winner of the NSF Director's Award for Distinguished Teaching Scholars in 2002.

CHAIR COLUMN

Look for the Chair's Column next month.

2004 MEMBERSHIP RENEWAL

You should have received your 2004 dues statement from AEG Headquarters by now. If you have not received it, or are unsure about your membership status, please contact AEG Headquarters at www.aegweb.org/, or Tania Gonzalez. You can now conveniently renew your membership online by going to aegweb.org.

We are also currently looking for a new Membership Chair. Please contact Tania Gonzalez you wish to volunteer.

2003-2004 CONTRIBUTORS (Thank You!)

**Earth Consultants International & Eldon Gath
Joe Cota**

YEAR 2004 CONTRIBUTORS NEEDED

Contributions from corporations and individual members for 2004 will be greatly appreciated. Contributors will be listed in our newsletter throughout the year and can post their logo or business card in the newsletter if so desired. Please mail contributions made out to **AEG** to our section chair, Tania Gonzalez.

NEWSLETTER ADVERTISING

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Full page	\$50/month	\$500/year

AGI GOVERNMENT AFFAIRS PROGRAM ACTION ALERT: 4-23-04

*** Your Congressional Representatives Needed to Support Seismic Network ***

Summary: Reps. Nick Smith (R-MI) and Zoe Lofgren (D-CA) are asking their colleagues to co-sign a letter of support for the Advanced National Seismic System (ANSS). They will send the letter at the end of May to the House Appropriations Subcommittee that funds the U.S. Geological Survey, where ANSS is located. AGI urges geoscientists to contact their representatives this week and recommend that they sign onto the Smith-Lofgren letter. The text of the "Dear Colleague" letter is included at the bottom of this message. Additional signatures for the letter must be received by May 26th, but Reps. Smith and Lofgren are urging everyone to take action before then.

The bill that would increase funding and reform the National Earthquake Hazards Reduction Program (NEHRP) was passed by the House of Representatives on October 1, 2003. The bill authorizes more than \$500 million through FY 2006 and designates the National Institutes of Standards and Technology as NEHRP's chair. To date, there has been no action on this bill in the Senate.

Staff members of the Senate Subcommittee on Science, Technology and Space have said that the subcommittee will consider the House bill and are currently working with the Senators to schedule a hearing and markup sometime later this year.

** Please call your representative and ask him or her to sign on to the Smith-Lofgren letter by Wednesday, May 26th. ** The U.S. Capitol Switchboard (202) 224-3121 will connect you to your representative's office.

When you talk to your representative's staff, let them know that to add their Member to the list they should contact: If Republican, then contact James Hague, professional staff member for the House Science Committee (202) 225 7858); if Democrat, then David Carreiro in Rep. Zoe Lofgren's office (202 225 3072). Just to reiterate, these are the people whom staff should call to add their Member to the list, not the individuals whom we are asking geoscientists to contact.

For additional information on ANSS, please see the following: An article can be read on the web at http://www.agiweb.org/geotimes/oct02/feature_anss.html

*** Text of Smith-Lofgren Dear Colleague Letter ***

Hon. Charles H. Taylor, Chairman Hon. Norman Dicks, Ranking Member House Committee on Appropriations House Committee on Appropriations Subcommittee on Interior Subcommittee on Interior B308 Rayburn HOB B308 Rayburn HOB Washington, D.C. 20515-6023 Washington, DC. 20515-6023

Dear Chairman Taylor and Ranking Member Dicks:

As you begin consideration of the FY05 budget for the Advanced National Seismic System (ANSS), we ask that you consider a funding level of at least \$10 million for this important program. The ANSS, an integrated seismic monitoring network that will be concentrated in high-seismic risk urban areas, was authorized in 2000 as part of the National Earthquake Hazards Reduction Program (NEHRP), but has been funded at only about one-eighth of the authorized level (\$4.4 million in FY04).

We have growing concerns that continued under-funding of the program will substantially limit the ability of NEHRP to mitigate earthquake hazards. While we would much prefer to see the program funded at its authorized level of \$35 million, we understand that may not be possible in this budget environment. However, by funding ANSS at least \$10 million, the program will be able to move ahead with the bare minimum of implementation necessary to learn from the next significant earthquake.

The need for ANSS cannot be disputed. Much of the seismographic equipment currently being used today is over 30 years old, and cannot reach the level of precision and scope of modern equipment. The ANSS provides an equipment upgrade, and harnesses modern telecommunications and robust centralized computer processing to provide a nationwide uniform minimum standard for earthquake monitoring.

The data that ANSS provides will be crucial for citizens, emergency responders, engineers, and government officials. With modern equipment, the USGS can develop detailed "shakemaps," which provide a precise geographic measurement of shaking intensity during an actual earthquake. The ANSS will provide important information to emergency management officials in the moments following an earthquake to determine where to dispatch first responders. The ANSS will also yield important data to help engineers design buildings to prevent the future loss of life in earthquakes, as well as important information on fundamental earthquake processes to earth scientists trying to better understand why and how earthquakes occur.

As originally conceived, the ANSS calls for expenditures of \$170 million over a five-year period for equipment, plus additional maintenance costs. In reality, however, funding levels have fallen far short of this figure, and the Administration's request of \$1.9 million for FY 2004 is the lowest level yet. If this trend were to continue, the ANSS would not be completed for another fifty years.

The United States Geological Survey puts the likelihood of a magnitude 6.7 earthquake occurring in the San Francisco Bay Area by 2032 at 62%. Those of us in the Western United States know all too well the high costs in terms of human life and property of such a large earthquake. However, this problem is not limited only to California, the state most often associated with America's earthquake threats. Many other parts of the country, including the Mississippi River valley, Pacific Northwest, Intermountain West, Alaska, Hawaii and parts of the eastern seaboard face significant earthquake risks. In fact, seventy-five million people, including forty-six million outside California, live in metropolitan areas in the United States at moderate to high earthquake risk.

The time to properly fund ANSS is now. We can't afford to wait for the next big earthquake to start providing this badly needed funding. Thank you for your consideration of this request.

Sincerely,
Nick Smith, Zoe Lofgren
Members of Congress

PALOS VERDES MAPS ON CD

Dick Brown and Mark Legg have scanned all of the colored geologic maps from Woodring, Bramlette and Kew (1946) Professional Paper 207, "Geology and Paleontology of Palos Verdes Hills, California". The maps include Plate 1, "Geologic Map and Sections of Palos Verdes Hills, Los Angeles County, California"; Plate 14, "Geologic Map of Northeastern San Pedro"; and Plate 21, "Geologic Map of North Border of Palos Verdes Hills adjoining Hawthorne Avenue". These 3 maps are on one CD, in PDF and Tiff formats, each, scanned at 300 dpi. On another CD (same formats) they have scanned Plate 22, "Topographic Map of Palos Verdes Hills, Los Angeles County, County, California, Showing Distribution of Pleistocene Marine Terraces and Terrace Profiles". These two CDs are available for \$10.00 each. Call or e-mail Dick Brown if you would like to order one or both CDs, at (562) 598-0595 or dickbrowngeo@adelphia.net. Dick Will have copies of the 2 CDs available for \$10.00 each at the March 1, 2004 SCGS meeting. To order by mail send a check for \$10 or \$20 (and state which CD you want if only \$10). Make the check out to Arthur R. Brown, and mail to 296 College Park Drive, Seal Beach, CA 90740.

ENGINEERING GEOLOGY PRACTICE IN NORTHERN CALIFORNIA

Edited by Horacio Ferriz and Robert Anderson, 2001, CGS Bulletin 210, AEG Special Publication 12, 658 pgs.

Modeled after the 1992 publication, *ENGINEERING GEOLOGY PRACTICE IN SOUTHERN CALIFORNIA*, edited by B.W. Pipkin and R.J. Proctor, this new publication contains an overview of Northern California Geology. Indexed topics include landslides, faults, facilities (landfills, dams, bridges, and plants), tunnels, transportation, residential, and a "kaleidoscope" section related to environmental and seismic issues. It also contains a few projects from Southern California.

This publication is a must for your reference library. If you are interested please contact William Godwin, SF-Section Chair at whgodwin@mactec.com, or phone (707) 793-3841. The publication cost is \$85.50 + \$6.50 shipping to AEG members. Please send check payable to AEG "SF-Section"

EMPLOYMENT OPPORTUNITIES, OTHER

Subsurface Designs (5-04)

Positions Available for Entry Level and Project Level Geologists SubSurface Designs, Inc., an established Los Angeles geotechnical engineering firm, is seeking Entry Level and Project Level Geologists. Part-time and full-time positions available. The right qualified, independent and hard-working individual will be offered an excellent salary, profit sharing and benefit package commensurate with their experience. Equal Opportunity Employer.

For consideration, fax or email your resume in confidence to:

SubSurface Designs, Inc. Attn: Mark Triebold
12872 Foothill Blvd.
Sylmar, CA 91342
818-898-1595 (office)
818-898-4003 (facsimile)

mark@subsurfacedesigns.com

PAI Corp. (3-04)

PAI Corporation is currently seeking a Hydrogeologist to assist in its environmental protection and restoration program at the NASA Ames Research Center in Mountain View, California. The incumbent works as part of a

team to support the NASA Ames Research Center's Environmental Program. This is a senior level position. Job qualifications include, but are not limited to, the following:

- 1.) Bachelor's degree in hydrogeology, geology, or engineering, and 5 to 10 years relevant experience.
- 2.) Knowledge of general computer applications plus hydrological modeling, databases and GIS.
- 3.) Excellent verbal and written communication and organizational skills.
- 4.) Detail-oriented team player willing to support diverse environmental program responsibilities.
- 5.) Ability to understand the environmental issues affecting NASA Ames Research Center.
- 6.) Ability to perform fieldwork, including the collection of groundwater and/or soil samples.
- 7.) Knowledge of EPA analytical methods.
- 8.) Ability to work on multiple projects of varying priorities.
- 9.) Knowledge of federal, state of California, and local environmental laws and regulations and standards.

This is a summary statement of the responsibilities and qualifications for this position. PAI Corporation offers an excellent starting salary and benefits package. For consideration, please email your resume and salary requirements to job4001@paicorp.com. PAI Corporation is an Equal Opportunity Employer.

A Comprehensive benefits package is included.

Company Job ID: 4001
 Job Title: Hydrogeologist
 Location: San Jose, CA (NASA Ames Research Center, Mountain View, CA)
 Company Homepage: www.paicorp.com
 Contact: HR Manager
 By E-mail: job4001@paicorp.com

Gold Coast GeoServices, Inc. (3-04)

Gold Coast GeoServices, Inc., in Camarillo has job openings for engineering geologists, geotechnical engineers, and soils technicians/laboratory technicians of all levels. Prior work experience or college level experience in Ventura and Los Angeles Counties is preferred. Please email resume with experience and qualifications to general@goldcoastgs.com , or fax to 805-484-4295.

Hargis + Associates, Inc. (3-04)

Hargis + Associates, Inc., a San Diego based consulting firm specializing in hydrogeology and engineering, currently has opportunities in both our Mesa, Arizona and San Diego, California offices. We are currently looking to fill the following positions:

Staff Hydrogeologist-Modeler: Candidate would possess a M.S. Degree in Hydrogeology, and 2 to 4 years relevant experience, including experience with groundwater modeling and GIS. Candidate should possess strong writing and presentation skills. California registration is a plus. OSHA 40-hour training preferred, but not mandatory. Position may be based in San Diego, CA, or Mesa, AZ. Some travel may be required.

Entry Level Engineer: Candidate would possess B.S. Degree in Chemical, Civil, or Mechanical Engineering. Position will be based in San Diego, and may require some travel and field work. OSHA 40-hour training preferred, but not mandatory.

Staff Engineer: Candidate would possess B.S. Degree in Chemical, Civil, or Mechanical Engineering and EIT Certification, and two to four years of relevant experience, including design, operation, and maintenance of remediation systems. Masters degree and registration is a plus. Candidate should possess strong writing and presentation skills. Position will be based in San Diego, and may require some travel and field work. OSHA 40-hour training preferred, but not mandatory.

Senior Engineer: Candidate would possess B.S. Degree in Civil Engineering and registration in Arizona with ten+ years of relevant experience, including design, operation, and maintenance of remediation systems.

Masters degree and/or California registration is a plus. Strong leadership, writing and presentation skills required. Position will be based in Mesa and may require some travel and field work. OSHA 40-hour training and MSHA training preferred, but not mandatory. Excellent opportunity for an experienced, registered Arizona Civil Engineer.

Hargis + Associates offers competitive salaries and benefits, and a challenging work atmosphere. Hargis + Associates is an Equal Opportunity Employer. To learn more about Hargis + Associates, please visit our website at: www.hargis.com. Qualified candidates should send resumes, along with a cover letter summarizing experience and salary requirements to:

Hargis + Associates, Inc.
Attention: Kim Stransky
2365 Northside Drive, Suite C-100
San Diego, CA 92108



Petra Geotechnical, Inc. is currently seeking **geotechnical engineers, geologists, soils technicians, and deputy inspectors** at their Costa Mesa, Murrieta, San Diego, and Santa Clarita offices. Petra is a geotechnical, environmental, and materials testing firm that has provided professional earth science services throughout southern California since 1975. Typical projects include residential developments, commercial structures, educational and infrastructure facilities. We offer competitive salaries, excellent benefits, a comfortable working atmosphere, and a pleasant commute! Please submit your resume with references to Ms. Jennifer Griffin at email address jgriffin@petra-inc.com, fax number 714.668.3770, or mailing address 3185-A Airway Ave., Costa Mesa, CA 92626

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TITLE / DESCRIPTION	PRICE	QTY	TOTAL
Baldwin, J.E. and Sitar, N., 1991, <u>Loma Prieta Earthquake: engineering geologic perspectives.</u> AEG Special Publication No. 1, 170p	\$10.00		
Bishop, K., and Tandy, L., 1995, <u>Ground Failure during the January 17, 1994 Northridge earthquake:</u> Association of Engineering Geologists, Southern California Section, Annual Field Trip Guidebook, November 11, 1995, 106p.	\$20.00		
Briggs, R.P. and Parke, C.D., 1990, <u>Guide to Field Trips in Pennsylvania, Ohio, and West Virginia.</u> AEG 33 rd Annual Meeting, October 1-5	\$15.00		
<u>Highway and Railroad Slope Maintenance:</u> AEG, 34 th annual meeting, September 29 th – October 4 th , 1991	\$10.00		
Leighton, F.B. <u>Mitigation of geotechnical litigation in California:</u> Munson Book Associates, Huntington Beach, California, 274p.	\$20.00		
Sieh, K.E., and Matti, J.C., 1992, <u>Earthquake geology. San Andreas fault system. Palm Springs to Palmdale:</u> AEG, 35 th Annual Meeting, Field Trip Guidebook, October 3-4, 1992	\$10.00		
Stout, M.L., ed., 1992, <u>Proceedings of the 35th annual meeting. Association of Engineering Geologists.</u> October 2-9, 1992: 740p.	\$5.00		
Tepel, R, 1995, <u>Professional Licensure for Geologists, an Exploration of Issues.</u> Association of Engineering Geologists Special Publication No. 7, 1995	\$12.00		
Cann, L.R., Cobarrubias, Hollingsworth, B., 1992, <u>Engineering Geology Field Trips Orange County, Santa Monica Mountains, and Malibu.</u> AEG 35 th Annual Meeting, Field Trip Guidebook, October 2-9, 1992	\$10.00		
<u>Los Angeles Metro Rail System Field Trip Guidebook.</u> Association of Engineering Geologists, 35 th Annual Meeting October 2-9, 1992 Long Beach, California	\$10.00		

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