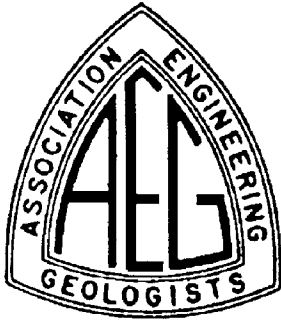


Association of Engineering Geologists

Southern California Section



NEWSLETTER- July 1991

Eldon Gath
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(714) 788-5800

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

2550 Beverly Blvd.
Los Angeles, CA 90057

Dinner Meeting **Tuesday JULY 16th** *Joint Meeting With San Diego Association of Geologists*

- Anderson's Pea Soup Restaurant**
850 Palomar Airport Road
Carlsbad
- Make reservations by Friday July 12th!!!**
Rosa (714) 860-7772 (Leighton & Associates)
(Leave Your Name & Number of People in Your Party)
- 5:30 Social Hour**
- 6:45 Dinner**
- 7:30 Announcements**
- 8:00 Program**

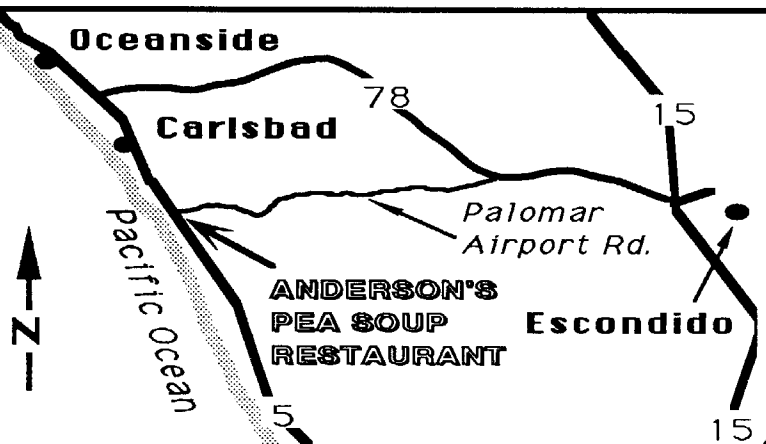
Program

TOPIC: Presentations and Panel Discussion on the Relationships between the Newport-Inglewood and the Rose Canyon Fault Systems and on the Seismic Hazards Mapping Act

SPEAKERS: Mark R. Legg, Ph.D. (ACTA, Inc.), Peter Fischer, Ph.D. (Cal State Northridge), Tom Rockwell, Ph.D. (SDSU), and Bruce Clark, Ph.D. (Leighton and Associates)

MAP to Meeting

**I-5 to Palomar
Airport Road, turn
east at the fwy.
exit, restaurant is
next to fwy.**



PROGRAM

Topics & Speakers

Presentations and Panel Discussion on the Relationships Between the Newport-Inglewood and the Rose Canyon Fault Systems

Mark R. Legg, Ph.D., ACTA, Inc.
Peter Fischer, Ph.D., Cal State Northridge
Tom Rockwell, Ph.D., SDSU

The relationships between the Newport-Inglewood and the Rose Canyon Fault Systems are not obviously defined because the area between the portions defined on land are submerged by the Pacific Ocean. These systems comprise the most potentially significant hazards to the major population areas of Southern California. There was a focus on identifying the relationship between these systems when the San Onofre Nuclear Generating plant was being licensed about ten years ago.

Additional research has been conducted that further defines relationship between these faults. The esteemed speakers have researched their respective portions of the systems over a number of years and have agreed to provide insight to their work through 15 minute presentations. Following their presentations the program includes a panel discussion on the relationships between the two systems and the effect this has on the perspective of regional tectonics and seismic hazards.

It is expected that many other experts on these systems will attend the meeting to lend additional insight to these important systems during the course of the panel discussion. Additional information is welcome as the local USGS and the California Divisions of Mines and Geology staff are preparing to publish their new regional geological maps of the Southern California area. The geologists and guests from the SDAG and the AEG are all welcome to attend for an interesting evening.

The California Seismic Hazards Mapping Act

**Bruce Clark, Ph.D.,
Leighton & Associates**

In September, 1990, then Governor Deukmejian signed into law AB 3897, the Seismic Hazards Mapping Act. The so-called Willie Brown Bill identifies the California Division of Mines and Geology as the body responsible for identifying and mapping seismic hazards.

Three specific types of seismic hazards are going to be identified and mapped State-wide: amplified ground shaking, liquefaction, and earthquake-induced landslides. In addition, the DMG will create a series of probabilistic ground shaking "base maps". These identify the acceleration levels, at periods of 0.3, 1, and 3 seconds, which have a 10% probability of being exceeded in a 50 year period, assuming that the site is underlain by a "reference" material (firm soil or soft bedrock), probably equivalent to an S2 material in the UBC. The level of hazard at a particular site will then be determined by the susceptibility of the actual soil column beneath that site to the anticipated shaking. The DMG will apply a specific set of procedures for determining the susceptibility at any particular location in the State to each of these potential hazards, but that mapping is only at a regional scale, much like the DMG's mapping of A-P zones for fault rupture. It will be up to the geotechnical consultant to demonstrate that a specific site within the newly defined zone zones is not really a hazard, or to recommend mitigation measures for the site if the hazard is real.

MEMBERS NEWS

It is with sadness that we report the passing of Joseph F. Poland, Founding Member (1958) and Honorary Member of the Association of Engineering Geologists. Mr. Poland was an internationally recognized expert in land subsidence and a retired geologist and hydrogeologist for the U.S. Geological Survey. Mr. Poland died on June 4th in a Sacramento hospital at the age of 83. A memorial service was held June 29th in Sacramento.

Mr. Poland joined the Survey's groundwater division in Long Beach in 1940 and transferred to the Sacramento office in 1949 to head the groundwater programs in California as a district geologist. In 1955, he was reassigned to lead the research program on land subsidence, and soon became an international expert in the field. He continued working as a consultant after his retirement from federal service in 1974.

Mr. Poland worked with UNESCO and represented the United States throughout the world. He was responsible for determining why Venice, Italy, was sinking, and was known by the Italians as the "healer" and "savior" of the city.

Born in Boston, Mr. Poland earned a Bachelor's degree from Harvard University in 1929 and worked as a petroleum geologist in Colombia.

After returning to the United States in 1931, he received his master's degree at Stanford University in 1935 while also teaching at the college. He became interested in groundwater and was able to determine that the Santa Clara Valley was sinking at an average rate of four inches per year due to vigorous ground water pumping in the area over several decades.

Mr. Poland completed his doctoral studies and oral exams but lacked a written dissertation for his doctorate degree. Instead of finishing his college work, he joined the geological survey. It wasn't until 1981, after former co-workers at the survey submitted 40 years worth of written reports and research papers, that Mr. Poland was awarded his doctorate from the university.

Mr. Poland was also a Fellow, Geological Society of America (1947); Fellow, American Geophysical Union, Hydrology Section (1937); California Registered Geologist No. 22, and California Certified Engineering Geologist No. 7.

The family requests that any remembrances be made to the National Parkinson's Foundation, Bob Hope Road, 1501 NW 9th Ave., Miami, Florida 33136-1494.

(excerpt from the Sacramento Bee Newspaper, sent in by Robert Sydnor, 1980 Chairman of the So. California Section of AEG)

MORE MEMBERS NEWS

In the last newsletter we commended Dave Grover, his staff at Grover-Hollingsworth & Associates, and the speakers for a great job in organizing and presenting the AEG Student Workshop held at Cal State Los Angeles on April 27th. Dave Grover wrote to point out that the student workshop was organized with the help of Marty Stout, and would like to thank Marty and Cal State Los Angeles for hosting the event.

1992 NATIONAL MEETING

Do not forget that the Southern California Chapter of AEG is hosting the 1992 National Meeting in Long Beach. To assure a successful and measurable meeting we need sponsor contributions from the local geotechnical consulting community. Please call Greg Rzonca at Converse Consultants Inland Empire (714-889-8004) for further information.

NEWS FROM YOUR LOCAL AEG MEMBERSHIP CHAIRMAN

(by Tony Stirbys)

The most effective way to bring in new members is by using the principles of networking, i.e., word of mouth through friends and professional acquaintances. If you are aware of someone that may be interested (or should be interested) in AEG, indicate that the AEG serves "Professionals in Engineering, Environmental, and Ground Water Geology". The AEG member benefits include:

- Publications-BULLETIN-NEWS DIRECTORY
- Local AEG Membership-Dinners, Social Meetings-Field Trips
- Committee Participation
- AEG Annual Meetings
- Training Courses and Meetings

Applications are usually available at local AEG Tuesday night meetings or directly from me. If you know of someone who may be interested, please give me a call and I will make the contact for you. I can be reached at 213-362-6176

To date I have provided membership application forms at the local AEG meetings, answered all membership related phone calls (with many subsequent follow-up calls and mailings), mailed a variety of flyers to members and non-members and have visited consulting firms in order to promote the Association. Remember that as the only member of this committee, I have limited resources and I need your help to promote the Association. **Please promote your association.**

REPORT FROM THE LEGISLATION COMMITTEE

(by Hugh Robertson, Chairman)

Bill Keese, Legislative Advocate for the California Sections of the Association of Engineering Geologists, has reported that the request for funds to aid in enforcement activities for the Registration Board has been approved and added to the budget by the Assembly and the Senate. The budget is on its way to the Governor. Unfortunately, the budget crises may result in our request being "blue lined" or eliminated from the current budget. To clarify the process for those of you who are interested, money generated by our registration fees is available to fund additional personnel for enforcement. However, money may not be used by the Board unless it has been authorized in the budget. In the past, requests for funding for additional enforcement personnel has been denied by the Department of Consumer Affairs. However, current political support has enabled us to secure a budget item for an additional Geologist and support personnel for enforcement. Only time will tell whether or not this item is "blue lined" by the Governor.

Assemblywoman Tanner's Bill to allow registration of hydrogeologists based on membership in a professional society is a hot political item. Tanner hopes to move the Bill out of the Assembly but has agreed to make it a 2-year bill. A public hearing was held and members of the Professional Standards Committee of the Registration Board met with Assemblywoman Tanner and indicated that the Board may consider a specialty registration for a hydrogeologist. The specialty registration would be under the Geology Board. The Board has also agreed to re-evaluate educational requirements to qualify to sit for the exam and look at ground water classes which may not be offered under the Geology Department of the University. Because the Bill is a 2-year bill, it will be in the Ways and Means Committee. The cost of implementing the proposed legislation would be in excess of \$100,00.00, and therefore, it will move to the "suspense file". This results in it not being a high priority and the possibility that it may die in the "suspense file". Another road block is the fact that both the Geology and Civil Engineering Registration Boards, along with the Department of Consumer Affairs, oppose the proposed legislation, which may result in a veto by the Governor.

Passage of the Bill seems to be a low risk and further letter or phone campaigns to oppose the Bill are not necessary at this time. It is suggested that your thoughts concerning specialty registration for a Hydrogeologist be directed to our Registration Board and not to Assemblywoman Tanner.

Call for Papers Inland Geological Society

Topic:

Quaternary Faulting and Related Phenomena in the Inland and Desert Areas of Southern California

The Inland Geological Society is inviting technical papers for its newest volume entitled "Quaternary Faulting and Related Phenomena in the Inland and Desert Areas of Southern California" to be published in June 1992. This geographically large and varied region consists of most of southern California with the exception of the coastal areas. Only high quality, original papers will be considered. This publication will be similar in quality to the Society's previous volume "Landslides in a Semi-Arid Environment". Any topic related to faulting is encouraged. Some suggested topics include but are not limited to:

blind thrusts	secondary phenomena
fissuring	sympathetic movement
fault geometry	fault morphology
logging fault trenches	probabalistic accelerations
remote sensing	fault segmentation
age dating	subsidence effects
disaster preparedness	liquefaction
historical perspectives	A-P implement/interpretation
dealing with local agencies	earthquake prediction
seismic design/building codes	
state requirements for critical facilities	
economic impacts of earthquake prediction	

FORMAT: Papers should use GSA format. Please submit your manuscript as both a hard copy (with graphics), and a 3 1/2" or 5 1/4" floppy disk. For word processing use either an ASCII file or Word Perfect. Please include good, sharp, high contrast black and white photographs, drawings, graphs, or half-tones. Receipt of abstracts will not be acknowledged. Authors requiring acknowledgment should enclose a stamped, self-addressed envelope or postcard.

Abstract Deadline: December 1, 1991

Manuscript Deadline: March 1, 1992

COVER PHOTO CONTEST: Black and white or color photographs are being solicited for the cover of this volume. Submit glossy 5" X 7" or larger photo by March 1, 1992.

For More Information Contact:

Gary S. Rasmussen
IGS Publications Committee Chair
1811 Commer Center W.
San Bernardino, CA 92408
(714) 883-2422

Positions Available

Ads in this section are welcome at no cost

Geotechnical Opportunities

Leighton & Associates, a leading geotechnical and environmental consulting firm has career opportunities in their Los Angeles Region for projects in the West San Fernando Valley area and Ventura County for projects involving site and hillside development, planning and public works facilities.

PROJECT/SENIOR PROJECT GEOLOGIST PROJECT/SENIOR PROJECT GEOTECHNICAL ENGINEER

Minimum eight years experience in project management, field supervision, proposal preparation and client contact. Advance degrees preferred, registration required (RG/CEG).

STAFF GEOTECHNICAL ENGINEER STAFF GEOLOGIST

Degreed geotechnical engineer/geologist with minimum 2 years of experience in field investigation, data review and analysis and report preparation.

SOIL TECHNICIAN

Minimum one year of experience in soil testing and observation of earthwork and grading for hillside development.

Leighton and Associates offers a competitive wage and benefit package. Candidates should submit resumes to:

Leighton and Associates, Inc.
2121 Alton Parkway
Irvine CA, 92714

Environmental Opportunities

Leighton & Associates, a leading geotechnical and environmental consulting firm has career opportunities available in Los Angeles and Orange Counties:

PROJECT/SENIOR PROJECT ENVIRONMENTAL SPECIALIST
MS/PhD in Geology or engineering and a minimum of eight years of environmental experience as well as professional registration (RG or PE) required. Candidates must also have applied expertise in project management, field supervision, report and proposal preparation, regulatory agency contacts and business development.

STAFF ENVIRONMENTAL SPECIALIST
BS/MS in geology/engineering and at least two years of experience in hazardous waste site investigations. Knowledge of government regulations and possession of 40 hour OSHA certification desirable.

Leighton and Associates offers a competitive salary and benefits package; qualified candidates should submit their resumes to:

Leighton and Associates, Inc.
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Irvine CA, 92714

Career Opportunity for Mid-career Environmental Scientists and Engineers

with experience in one or more of the following
Soils and ground water assessment and remediation
Site audit/compliance/permitting
Hazardous materials management
Professional registration a plus

Excellent salaries and benefits commensurate with technical and managerial capabilities. Please submit resumes (in confidence) to:

Ninyo & Moore
15375 Barranca Parkway, Suite A-101
Irvine, CA 92718
Attention: Dr. Peter R. Supko, General Manager

Position Available for Environmental Scientist

with 2 to 3 years experience in environmental risk assessments, underground storage tanks, compliance audits, oversight of drilling activities and soil/ground water sampling. Working knowledge of State and county regulations and excellent writing skills required. Send resume (in confidence) to:

Ninyo & Moore
6150 Lusk Boulevard, Suite B-200
San Diego, CA 92121
Attention: L. Ashworth

Positions Available for

Staff, Project and Senior Geologists in the Burbank Area

EMCON Associates are looking for geologists with experience in site assessment, ground water monitoring/remediation, property transfer assessments (Phases I, II and III), or underground tanks. We offer career growth in a strong dynamic company with 20 years in business and offices throughout the western U.S. Please submit resumes in confidence to:

EMCON ASSOCIATES
P.O. Box 7894
Burbank, CA 91510-7894
Attention: Lucien Jervis,
Human Resources.

For more information, call Keith G. Farrell,
Director of Geology at (188) 841-1160.

Opportunities for Environmental Professionals

HERZOG GEOSCIENTISTS, a growing northern California Environmental, Geotechnical and Materials Engineering firm is part of HIH USA Inc., a nation-wide group of consulting companies with over 2400 employees. We have been established in the California market since 1973 and are expanding our Solid Waste Engineering Services and Remediation Engineering Design capabilities by filling two important positions.

SOLID WASTE ENGINEER
The solid waste engineer manager we seek will have a minimum of 12 years experience in all aspects of landfill engineering (design, gas and leachate management, closure/post-closure), excellent marketing and technical management skills, and a proven track record working with major landfill owners, operators and regulators in California, Oregon or Washington. The candidate will have a BS/MS in civil engineering or a closely related engineering specialty, and should be registered as a Civil Engineer in California, or be able to obtain such registration. The ideal candidate will be a leader looking for the challenge of building a talented and aggressive Solid Waste Engineering Group to work with our established Geohydrology and Geotechnical Engineering groups.

REMEDIATION ENGINEER
The Remediation Design Engineering Manager will have a minimum of 6 to 8 years of increasingly responsible experience in project and contract management, remedial system designs, cost estimating, marketing/client relations, and in working closely with sophisticated clients. The candidate will have a BS/MS in Civil Engineering or a related engineering discipline, and should be a registered engineer in California or be able to obtain such registration. Our ideal candidate will be experienced in designing and managing various kinds of remediation systems for soil and ground water and will be familiar with regulatory requirement.

These positions may be in either the Petaluma (Sonoma County) Corporate office, or in our Sacramento or Oakland, California offices. Interested candidates should submit a resume, geographic preference and salary history to:

Marc Seeley,
Environmental Services Division Manager or
Tom Faimali, President/CFO,
Herzog Associates,
1318 Redwood Way, Suite 200, Petaluma, California, 94954,
Fax 707-792-5695.

We are an equal opportunity employer. Women and minorities are encouraged to reply.

Job Opportunity for a Staff Geologist

Metcalf & Eddy, Inc., a quality oriented engineering and environmental firm is looking for a staff geologist to fill a position in their Santa Barbara office. This position requires 1 to 3 years experience working in the environmental field. Applicants should have a BA in geology, hydrology or related discipline, and be familiar with field activities related to soil and ground water investigations and remediation programs, environmental sampling techniques, and UST projects. Familiarity with environmental regulations recommended. Written and verbal communication skills are mandatory. Send resume including salary requirements in confidence to:

Sherrie FitzGerald
METCALF & EDDY, Inc.
P.O. Box 24110
Santa Barbara, California 93121

1991 AEG ANNUAL FIELD TRIP

ENGINEERING GEOLOGY ALONG THE SIMI-SANTA ROSA FAULT SYSTEM, SIMI VALLEY TO CAMARILLO, VENTURA COUNTY, CALIFORNIA

WHEN: August 24th, 1991 @ 7:00 a.m.
Registration starts @ 6:30 a.m.
(Guidebooks will be distributed at registration)

WHERE: Meet at Park & Ride Parking Lot on Rancho Road
(at intersection of Hwy 23 and 101)
Ventura County Thomas Guidebook Page 74, D-6

TRANSPORTATION: Air-conditioned bus

FOOD: Lunch and beverages will be provided

COST: Professionals \$55.00
Full-Time Students \$25.00

Due by July 12, 1991

HIGHLIGHTS:

Overview of Simi-Santa Rosa fault system from the soon-to-be-completed Ronald Reagan Presidential Library. From the vantage point of the library we will see the fault system, landslides, stratigraphy, and a once proposed dam site. We will also be able to view a section of the Berlin Wall within the library complex.

Trenches at Spanish Hills Development in Camarillo that expose Holocene-age thrust faulting as well as backthrusts, and a section of paleosols in the Saugus Formation.

Exposures of the Boney Mountain Fault.

Discussions of the geology of the area by Tom Blake, Tom Dibblee, Eldon Gath, Tom Rockwell, Bob Ruff, John McNamara, and others.

MAIL, BY JULY 12, to Tania Gonzalez, Leighton and Associates, 1470 S. Valley Vista Drive, Suite 150, Diamond Bar, California, 91765

REGISTRATION

of Professionals attending: _____ x \$55.00 = _____
of Full-time Students attending: _____ x \$25.00 = _____
TOTAL: \$ _____

I want to purchase _____ additional guidebooks, which will be available after the field trip.

NAME: _____ PHONE: _____

ADDRESS: _____

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(714) 645-3127

1991 ANNUAL GSA MEETING

The Geological Society of America will hold its Annual meeting this year in the San Diego Convention Center, October 21-24. The meeting will emphasize Environmental Geology. Mark your calendars!

AND MORE MEMBERS NEWS

James E. Slosson, Ph.D. was appointed a member of the Engineering Geology and Soils Review and Appeals Board by the Los Angeles County Board of Supervisors based on recommendations by Supervisor Edmund D. Edelman. His term of office will expire April 15, 1995.

Other Local Professional Meetings Held Regularly

Coast Geological Society: Dinner meetings every third Tuesday of the month, October-June; American Legion Hall, 83 S. Palm Street, Ventura.

Inland Geological Society: Dinner meetings the third Thursday of each month, San Bernardino County Museum, Orangetree, Redlands.

Los Angeles Basin Geological Society: Lunch meetings third Thursday of every month; now at Luminarias Restaurant, Monterey Park.

San Diego Association of Geologists: Dinner meetings third Wednesday of every month - locations throughout San Diego area. (This month joint meeting with AEG-Southern California Section in Carlsbad. Contact: (619)292-8030 (Leighton & Associates, San Diego office)

San Joaquin Geological Society: Dinner meetings second Tuesday of every month except July-September, American Legion Hall, 2020 "H" Street, Bakersfield.

South Coast Geological Society: Dinner meetings first Monday of each month, Revere House, 900 West First Street, Tustin.

Please use the Services of these Members and Businesses. Their advertisements help pay the publication costs of the newsletter.

Seminars/Meetings/Field Trips/Short Courses

JULY 1991

8-12 **"Coastal Zone 91"**, Hyatt Regency Hotel, 200 S. Pine Avenue, Long Beach, CA. Coastal Zone 91 is a multidisciplinary conference on coastal and ocean resource management issues. The goals of the conference are to present the latest state of the art in coastal and ocean technologies; provide a forum for discussion and resolution of divergent points of view on coastal and ocean policies; and promote the need for greater public understanding and involvement in ocean and freshwater issues. **CONTACT:** CZ 91 Headquarters, Middletown, CA, 707-987-0114, FAX 707-987-9351.

AUGUST 1991

24 **1991 AEG Southern California Field Trip:** Engineering Geology along the Simi-Santa Rosa Fault System, Simi Valley to Camarillo, Ventura County, California. See further information on page 6 of this newsletter.

OCTOBER 1991

11-13 **Rocky Mountain Friends of the Pleistocene Field Trip:** Quaternary Geology of Lake Bonneville in the Sevier Desert, near Delta, Utah. **CONTACT:** Richard Van Horn, US Geological Survey, Box 25046, MS 966, Denver, CO 80225. Send a self-addressed stamped envelope to receive Final Announcement.

California Registration Exam Review Courses and Study Manual: REG Review, Inc. is offering eight review courses in the southern California area to prepare for the California Geology Registration and Engineering Geology Certification exams. Review courses will concentrate on problem-solving skills in the fields of structural geology, map interpretation, hydrogeology, and engineering geology. Other topics covered will be given less emphasis. The courses are divided into Series I and Series II depending on whether they meet in the early or late summer months, but all courses present the same material. Classes are held in Pasadena (PAS), Tustin (TUS), San Diego (SD), Sacramento (SAC) and San Francisco (SF). The 1991 Study Manual provided with the course may be purchased separately for \$75.00 prepaid (tax and shipping included). For REG Review, Inc.'s 1991 brochure giving the course schedules and Study Manual ordering information, contact Patti Osiecki, President, at (415) 852-9099, or Lisa Dirth (Vice-President, at (415) 339-3771, or write to REG Review, Inc., 6555 Oakwood Drive, Oakland, CA 94611.

Series I courses offered are: SD-1 June 19 and July 17; TUS-1 June 20 and July 18; TUS-2 June 21 and July 19; and PAS-1 June 22 and July 20. Series I course pre-registration fees are \$325.00 if postmarked by May 29, 1991; \$375.00 after that date.

Series II courses offered are: SD-2 August 21 and September 18; TUS-3 August 22 and September 19; TUS-4 August 24 and September 20; and PAS-2 August 24 and September 21. Series II pre-registration fees are \$325.00 if postmarked on or before July 31, 1991; \$375.00 after that date.

Tania Gonzalez

AEG Secretary/Newsletter Editor

c/o Leighton & Assoc.

1470 S. Valley Vista Dr., #150

Diamond Bar, CA 91765



FIRST CLASS POSTAGE

