

ASSOCIATION OF ENGINEERING GEOLOGISTS

SAN FRANCISCO SECTION

NEWSLETTER

"Serving Professionals in Engineering Geology, Environmental Geology and Hydrogeology Since 1957"

October 2000

Meeting Details:

- Tuesday, October 10th
- Sinbad's Restaurant, San Francisco
- 6:00pm – Cocktail Hour
- 7:00pm – Dinner
- 8:00pm – Program Talk
- \$28 members, \$30 non-members, students ½ off who call Dr. Williams 408-924-5050.
- Reservations due by Friday, October 6th. See back cover for RSVP form.

Section Officers, 2000-2001

Chair

Jason Preece
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925-933-2900
preceje@cdm.com

Vice-Chair

Charles Kissick
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650-726-7198
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Secretary

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Committee Chairs

Membership Chair

Chris Hundemer
Upp Geotechnology, Inc.
408-275-1336
rockman8@pacbell.net

Short Course Chair

Ernest Solomon
650-948-3528
esolo@earthlink.net

OCTOBER PROGRAM: Global Resource Ethics -- Aldo Leopold, the Land Ethic, and the Lifeboat Problem by Allan Lindh, USGS

Thanks to the geometric growth in the human population, the people of this country and the world, face a crisis quite unlike that faced by prior generations; it is variously referred to as a population, environmental, biospheric, or climate change crisis, but irrespective of the words used two things are certain: 1. The problems will get worse, likely in areas we cannot anticipate today, and 2. Our evolving understanding of the problem(s) depends largely on progress in the earth sciences, taken in the broad sense.

The earth sciences also face a crisis, as some of our traditional areas of focus fade in relevance in the face of the looming "environmental crisis", and the impact of our growing energy, land, water and mineral resource use is already having serious consequences for the environment and the biosphere, and because these impacts are cumulative, problems will escalate in this century. Yet relatively few of us are trained in those areas that would broaden our ability to respond to the problems of the 21st century, rather than those of the 19th.

This talk will attempt to outline some of the ethical and practical dilemmas posed by these two intertwined "crises," from the idiosyncratic, and very personal perspective, of one blue-collar seismologist whose children are environmental activists.

The talk divides roughly into three parts:

1. Vernadsky and the Biosphere. The living system that covers the surface of the earth -- the biosphere in current terms -- consists of three intertwined "fluxes" -- energy, material and information. This perspective seems to have originated with Vladimir Vernadsky, a Russian geochemist, a student of Mendeleev, who during the chaotic years of the Russian revolution, formulated a view of life on the surface of the earth as an intertwined system of fluxes, which was eventually published in France as *le Biosphere* in the mid-1920's.
2. Aldo Leopold and the "Land Ethic." Wrote monograph in 1920's, after working on wolf extermination in mountains of New Mexico, quoting from PD Ouspensky's *Tertium Organum* as to the character and rights of living systems. This work eventually ended up as final section of *Sand Co. Almanac* on the "Land Ethic" -- our ethical responsibilities to the entire living system and the earth. This provided the starting point for what is known today as the Environmental Ethics movement.
3. The Lifeboat Problem. You are in a lifeboat, your ship is sinking. The lifeboat is full. Around you are people drowning, trying to crawl into your boat. If you let them in, the boat will sink and you all will drown. Today, and everyday, somewhere in the world approximately 40,000 children under the age of five die from starvation, or malnutrition related disease.

Committee Chairs

CCGO Liaison

Betsy Mathieson
Exponent Failure Analysis
emathieson@exponent.com

Legislative Chair Volunteer Needed!

Publications Chair Volunteer Needed!

Awards Chair Volunteer Needed!

Newsletter Editor

Gretchen Mora
Earth Systems Consultants
510-353-0320
aegnews@visto.com

The AEG San Francisco Section Newsletter is a monthly publication of the San Francisco Section of the Association of Engineering Geologists.

Submittals:

Deadline is the 20th of each month for the following issue. Contact Gretchen Mora by email (aegnews@visto.com) or by phone (510-353-0320) for submittal.

All submittals are subject to editing for space. Job ads are free if brief.

Address changes: Please submit to Section Secretary, Anne Rosinski at 415-904-7730.

Advertisements:

The newsletter's circulation is about 360 within northern California. Use these low rates to expand your market:

	<u>Yearly</u>
Business card	\$ 110
1/4 page	\$ 350
1/2 page	\$ 600

Sponsorship:

Become a Section Corporate Sponsor! Donate directly to the Section and receive free advertisement each month, recognition for your donation at Section Meetings, and more! Contact Section Secretary, Anne Rosinski, for More information on Becoming a Section Corporate Sponsor.

SPEAKER'S BIOGRAPHY

Allan G. Lindh was born in Mason City, Washington. He studied at Caltech, Yale, the University of Oregon, and U.C. Santa Cruz; he received a Ph.D. in 1980 in Geophysics from Stanford University.

In his youth he worked as a carpenter, logger, truck driver, farm worker, and real estate salesman. For the last 30 years he has worked on earthquake prediction and ground motion estimation, at the U.S. Geological Survey in Menlo Park, California. His major research interests are: The integration of seismic, geologic and deformation data into a single coherent quantitative model of the seismotectonics of the San Andreas fault system; the use of the understanding gained from this model to quantify the hazard and further earthquake prediction, and the transmission of this understanding to the public in such a manner as to reduce the risk from large earthquakes.

He was involved in the creation of the Parkfield Prediction Experiment, and efforts to forecast large earthquakes in the San Francisco Bay Area, including the long- and short-term warnings before the 1989 Loma Prieta earthquake. In the early 1990's he served as Chief of the Branch of Seismology at the U.S.G.S.'s Western Headquarters in Menlo Park.

His other interests include seismic retrofitting of his house, gardening, backpacking, kayaking, the origin of life and the evolution of complexity, philosophy of science and religion, limiting human population growth, reducing the risk of nuclear war, and the risk of a run-away greenhouse effect. He lives with his wife, Julie, north of Santa Cruz.

CHAIR'S MESSAGE

As the newly-elected Chair of the San Francisco Section, I would like to welcome everyone to a great beginning to what will be a new and exciting two years for me, and for you as members under my leadership. I would like to especially welcome the new and returning board officers – Charlie Kissick (Vice-Chair), Corinne Stewart (Treasurer), and Anne Rosinski (Secretary) – and thank them for committing their time, energy, and resources to serve the Section. Their talents and leadership will benefit the Section well above what is expected of most. Also, thank you to Gary Pischke for a tremendous job as Chair for the last two years. Let's not fail to recognize that Corrine and past-Treasurer, Dennis Maslonkowski, have also served the Association at AEG 2000 as the Student Coordinator and Technical Program Director, respectively. In other words, they're doing double duty. The Section is very lucky to have the resources of individuals who work so hard to make the Section a vital aspect of the geologic profession.

I'm not speaking just of the Section Officers here, but of the other board members as well. For example, Gretchen Mora, who is our Newsletter Editor, commits an enormous amount of time each month into creating, publishing and distributing the Newsletter. I did this task just once (in November 1998), before Dan Wynne was our editor, and it took *forever*. Thanks to Gretchen who came on board in September 1999, we not only have a great newsletter, but a web page (www.aegsf.com) to boot! As you may or may not know, Gretchen has also served the Association at AEG 2000 as the Sponsorship Manager. Hats off to Gretchen.

Ernie Solomon, who has been a member of the Section for as long as I can remember and has served on the Board in the past, is the Section's Short Course Committee Chair. His hard work has resulted in the Section offering a class on contouring this Fall to be taught by Sands Figuers, a *notable* scholar and professional. Please check out the course description in this month's Newsletter and consider attending. Proceeds from the short courses help the Section's budget and operation, and they are a great opportunity to keep your technical skill base sharp. We look forward to future short courses.

Continued on Page 3

Chair's Message (continued)

Chris Hundemer joined the Board as the Membership Committee Chair in April 2000. Anyone who has been responsible for bringing in new members to an organization knows how difficult it can be. He has some great ideas for promoting membership and can use everyone's support by spreading the benefits of AEG membership to colleagues.

Let's not forget Betsy Mathieson, who not only served as Chair for the Section from 1996 to 1998 (which, of course, means she served for many years prior, in other Section officer positions) and Past-Chair for two more years, but continues to serve as the Legislative Committee Chair and CCGO liaison. Her service is remarkable and the Section is deeply indebted to her.

Finally, I would like to give thanks and recognition to the members who have served the Section in the past, and continue to do so now, for example, in organizing AEG 2000. We all know who they are, particularly if we come to the meetings because they're usually there. I'm speaking of Section icons like Bob, John, Seena, Frank K., Frank G., Rex, and many others too numerous to all mention. Their service at the local Section and Association levels is outstanding and deserves a standing ovation. I think most of the San Francisco Section's membership doesn't realize how fortunate we are to have such strong, devoted people. To not take advantage of their presence, experience, and service, is a huge mistake.

This brings me to the point I wish to make in my first message to the Section. Professional organizations are for the members. You only get out of it what you put in. For as long as I have been involved with serving the Section, I have always seen the same core of people doing all the work and reaping *all* of the benefits. You, member, are responsible for your own professional/career development. To not take advantage of being recognized through serving national organizations is foolish. You should get involved and volunteer!

Let me convey my experiences. Did I ever think that by volunteering to be Awards Committee Chair, I would some day be Chair of the Section? Of course not! But, here I am. Do I regret it? Not one bit. Sure it takes time and I have other commitments. I have three young children, ages 6, 4 and 1½ years and a demanding job, as many of you do. But serving the Section hasn't interfered at all with the rest of my life. Sure, I could do a better job if I had more time and maybe the Section deserves better. But, at the same time, I think I'm doing the Section a great service and I am benefiting from it too.

Therefore, I implore you to seriously considering serving as one of the open Committee Chairs. Just speak to Gary or myself if you would like to volunteer. Currently, we don't have Field Trips (a vital need), Publications or Awards Committee Chairs. In addition, we hardly have what you call committees. Right now, all of the committees are made up of one person, the Chair! Could you imagine what the Section could do if just one more person served on each committee? These are easy roles to fill and don't be afraid of being turned down for volunteering. Most service positions only require one to a few hours of time each month. Serving on a committee is also a great way to test the waters, see if you enjoy being involved, and meet people.

If nothing else, come to the meetings and check them out. I think that lately student member attendance has out-numbered full member attendance, if you exclude members already serving AEG in some capacity. You know what that means, don't you? These young, energetic students will be at the forefront of the profession before you, and you'll be wondering why you're stuck in a rut. In addition, the meetings are a fun place to socialize, see others you haven't seen in a long while, and reminisce about old times. Come and join us.

In next month's message, I will report to you on the happenings of the Association's semi-annual Board meeting. In addition, I would like to lay out a vision for the Section's upcoming year's plans, budget, events, and changes.

JASON PREECE, San Francisco Section Chair

OUTGOING CHAIR'S MESSAGE

The Section is in transition this month. Welcome to our new officers: Jason Preece has moved from Vice-Chair to Chairperson; Charlie Kissick has volunteered to be Vice-Chair; Corinne Stewart has moved from Secretary to Treasurer; and Anne Rosinski has volunteered to be the new Secretary. Dennis Maslonkowski and I have moved on to other endeavors.

Under another hat for AEG, I am the Committee Manager for the Computer Utilization Committee. The goal of this committee is to keep the membership apprised of advances in computer hardware and software (as I sit at the AEG Annual Meeting writing on a yellow pad of paper with a mechanical pencil). So I went to the GIS Short Course and came up with the following questionnaire.

- What type of operating system do you have? (Windows, Mac, Unix, other?)
- What is your system size? (Memory, Disk Space, Zip Drive?)
- What software programs do you use? (MS Word, Excel, WordPerfect, Lotus, others?)
- How do you access the internet? (Type of connection – ISP, DSL, Modem? Speed?)
- What is your dream computer?
- What would you like to see for computer courses? (Internet, more GIS, other?)

Please email all responses to me at pishbert@ix.netcom.com. Thank you.

GARY PISCHKE, Past Chair

Don't forget! All of this information is available online at the AEG SF Section Website and updated frequently at www.aegsf.org!

AUGUST SECTION MEETING NOTES

The August section meeting was held at Spenger's restaurant in Berkeley. Joanna Meldrum of Exponent Failure Analysis presented the program "Disposal of Tailings in Permafrost." Mine tailings from a copper mine in Rankin Inlet, on the northwest coast of Hudson Bay, Canada, were an environmental concern to residents. The mine produced copper ore from 1957 through 1962. In 1994, tailings reclamation was performed, including burial in permafrost.

Permafrost is the thermal state where the ground remains at or below 0° C for at least 2 consecutive years. The presence of salt or solute can lower the pore water freezing point. Talik is unfrozen ground within a permafrost zone.

Pyrite is the most common sulfide mineral; pyrrhotite is one of the most reactive sulfide minerals. Tailings in Rankin Inlet are high in reactive pyrrhotite and oxidation of the tailings can result in acidic drainage and heat generation. Acid mine drainage is characterized by a rusty orange color, low pH, and a high concentration of potentially toxic metals.

When reclaiming tailings in permafrost, heat generation and acidic drainage are both concerns. Gravel is placed over the tailings as an active layer so the tailings will remain frozen. Geophysics was used to determine if the tailings were remaining frozen. This failed due to a significant number of old cars also being buried in the area. Boreholes were drilled; the ground was frozen to a depth of about 4 meters, but below that, due to high salinity, a talik had formed.

A test was developed to determine if the buried tailings were remaining in a chemically inert state. Four columns were made containing the following materials: 1) silt and seawater; 2) mine tailings core and in situ pore water; 3) tailings cuttings and seawater; and 4) tailings cuttings and distilled water. The columns were monitored at 30° C for 5 days, 0° C for 30 days, -2° C for 30 days and -10° C for 31 days. Freezing occurred from the top in the columns - the same as freezing occurred in the field. The columns were tested for oxygenation to see if the tailings were using oxygen and for exothermic reactions, which could possibly melt permafrost. Tailings at 30° C consumed the most oxygen and tailings with pore water generated the most heat.

It was concluded that lowering the temperature of reactive tailings reduces their ability to consume oxygen. Encapsulation in permafrost is a suitable remediation method for mine tailings at Rankin Inlet.

CORINNE STEWART, Section Treasurer

UPCOMING MEETINGS

The upcoming November meeting will be held in conjunction with the ASCE Geotechnical Group at a location and time to be announced later. If you would like to speak at a Section Meeting, or know someone who would be a good speaker, contact Charlie Kissick, Vice-Chair, at 650-726-7198.

RESPONSE TO EDITORIAL

In the July Newsletter, we printed an open letter from Tridib Guha to the Board of Registration of Geologists and Geophysicists. This letter is the public reply to Mr. Guha. - Ed.

Dear Mr. Guha:

Re: Editorial, July 2000 AEG San Francisco Section Newsletter

The Board of Registration for Geologists and Geophysicists is concerned about the misunderstanding of its enforcement process that is reflected in the editorial in the recent AEG San Francisco Section and the North Coast Geological Society newsletters. As the last step in the disciplinary process, Board members review a proposed decision issued by an Administrative Law Judge after an administrative hearing. A Board member must recuse himself or herself from voting on a proposed decision if he or she has prior knowledge of a case. The Board members vote to adopt or non-adopt a proposed decision as the final decision in a case. Therefore, a hearing before the Board as you requested is not appropriate and circumvents the legal process.

Regarding your concern that your case was given a cursory review, the case was closed on May 7, 1996 after a thorough investigation. Based on the investigation, a violation of the Geologist and Geophysicist Act was not substantiated and the case was closed. The Board's Enforcement Oversight Committee reviewed the case in August 1998. One year after review by the committee, the case file was purged in accordance with Board policy that all closed cases that do not result in decisions adopted by the Board or accusations are confidentially destructed three years after the case is closed.

The Board's enforcement program is active as evidenced by recent citations, fines and license revocations. Summaries of closed, actionable cases are posted on the Board's website at www.dca.ca.gov/geology and published in the *California Geologist and Geophysicist* newsletter. Results of actionable cases are reported after the cases are completed and all appeals are resolved. In accordance with Board policy, closed cases with no violations are not reported.

Sincerely,

PAUL SWEENEY
Executive Officer

cc: Editor, AEG San Francisco Section newsletter
Editor, North Coast Geological Society newsletter
Board Members

Thank You
Gregg Drilling & Testing, Inc!
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San Francisco Section!

CALIFORNIA COUNCIL OF GEOSCIENCE ORGANIZATIONS NAMES NEW EXECUTIVE DIRECTOR

Santa Barbara, September 12, 2000 - David Bernal has accepted the position of Executive Director of the California Council of Geoscience Organizations. "I look forward to getting involved and contributing to CCGO's Mission. I believe that we, as citizens, have a common purpose in advocating the use of sound geologic knowledge, whether we work to benefit public health & safety, the environment, the economic resources of the state, or the advancement of the geosciences. We share responsibility to the practice of the profession as well as to institutions of the geosciences. That being said, I want to express my commitment to work diligently in meeting the goals and objectives of CCGO."

David is a California Registered Geologist with over 20 years of professional experience and training in the oil & gas and environmental industries. He is a University of California Santa Barbara graduate with expertise in sedimentology and structural geology. David is currently an independent consultant in Santa Barbara and is training to become a Certified Engineering Geologist in the near future. He is a 20-year member of American Association of Petroleum Geologists, Coast Geological Society, and the Groundwater Protection Council.

For more information, visit our web site, <http://www.ccgog.org>, or phone CCGO President Betsy Mathieson at (650) 688-6755.

CONTOURING SHORT COURSE RESCHEDULED

Dr. Sands Figuers' short course on contouring has been rescheduled for Saturday, October 21. The course will be held from 0900 until approximately noon, with registration beginning at 0830, at the LFR-Levine Fricke office in Emeryville.

Examples and work problems will be liberally supplied. Sandy says, "Subsurface contours are used to depict the size, location, and shape of the geologic variable(s) being mapped. As such, each contour represents a prediction by the interpreter about that variable. To make effective predictions, the interpreter must have some geologic model in mind. Without a model, contouring is simply an exercise in connecting the dots."

The course will be held Saturday, October 21, 2000 at the LFR-Levine Fricke offices, 1900 Powell St. in Emeryville. Registration at 0830, class will start at 0900 hours and take about four (4) hours. The charge will be \$25 for AEG members, \$30 for non-members, and \$5 for students.

Contact Ernest Solomon to register for the class:
Phone: 650-948-3528
E-mail: esolo@earthlink.net
Fax: 415-522-5220 (c/o Olivia Chen Consultants)
Snail mail: 27500 Elena Road, Los Altos Hills, CA 94022

ERNEST SOLOMON, Short Course Chair

NEW LOOK FOR SAN FRANCISCO SECTION NEWSLETTER

The newsletter is sporting a new look for this year. We have retired the "trolley car and Golden Gate Bridge" photo banner and are interested in coming up with a new banner for the greatest Section in AEG! If you have a great graphic or line drawing (b/w only) of something that represents the San Francisco Bay Area, please send it to Gretchen Mora, Newsletter Editor at aegnews@visto.com, for possible use as the new header logo for the section. Gif or Jpeg files are preferred, but if you only have a paper copy, mail it to 37192 Oak Street, Fremont, CA 94536.

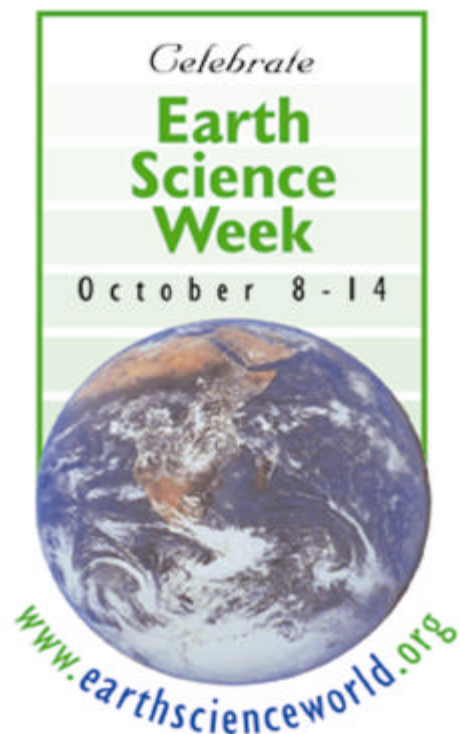
2000-2001 SECTION OFFICERS ELECTED

The San Francisco Section of the Association of Engineering Geologists has elected the following members to serve as officers from October 2000 Through September 2001:

President - Jason Preece, Camp Dresser & McKee, Inc.
Vice President - Charles Kissick, Sigma Prime Geosciences, Inc.
Treasurer - Corinne Stewart, Pacific Geotechnical Engineering
Secretary - Anne Rosinski, California Division of Mines & Geology

These dedicated volunteers will be seeking assistance in the form of committee chairs and other volunteers. Let's maintain the momentum from our great annual meeting and kick off a good year for the San Francisco Section. Introduce yourself to the new officers and get involved!

BETSY MATHIESON, Past President



AEG-GRA 2000 ANNUAL MEETING IS A SUCCESS!

Despite the strange weather we had days before the meeting - going from +100° temperatures to rain showers - the AEG-GRA 2000 Annual Meeting was a tremendous success for all attendees, *and* the weather was great!

Although official statistics have not been released, pre-meeting registration was above 450, some short courses and field trips were sold out, and the exhibition hall was busting at the seams with exhibitors outside on both the first and second floor hallways! Participants were treated to a plethora of technical sessions focusing on environmental, engineering and hard-core geology. It was hard to decide which technical sessions to skip in order to attend other interesting talks. All of the field trips, short courses and spouse-guest trips were held as planned, with no cancellations due to inclement weather or lack of attendees.

Much of the success of the Annual Meeting goes to **Bob Tepel**, General Chair, who has guided the Planning Committee for more than the last 12 months with tact and grace. Bob kept the committee informed of the progress of the Annual Meeting plans and helped committee members wherever needed, whatever the task, no matter how many other things he had to do. The Section owes a great debt to him, and we hope that he can relax now and enjoy his retirement!

Other Planning Committee members who should be congratulated on a job well done include **Leo Alvarez** for compiling and editing a field trip guidebook on time and with an amazing amount of information. **Frank Kresse** and **Steve Korbay** put together a spectacular selection of field trips, and we also owe a debt to all of the individual field trip leaders and co-leaders for their excellent field trips. The Short Course Chair, **Dr. John Williams**, deserves a round of applause for the fantastic short courses that were all well attended and informative.

Of course, no meeting would be complete without the Technical Sessions and Symposia. Our own (very humble) **Dennis Maslonkowski** and **Chuck Snell** were amazingly calm throughout the whole meeting, rolling with the tides and bringing us fascinating topics and interesting speakers for all of the different disciplines represented. While us geologists, hydro-types and engineering geologists were entertained by the speakers, our spouses and guests were treated to excellent field trips and a pleasant hospitality suite courtesy of **Linda Upp** and **Alice Tepel**'s extensive planning. Thank you ladies!

Other activities that were well-organized and provided alternative types of participation and learning at the Annual Meeting were the Poster Sessions, Chaired by **Gary Pischke**, and the Teacher's Workshop, Chaired by **Frank Groffie**. Thank you for your hard work!

Betsy Mathieson has given much of her time and energy to the Section in the past several years (decade?!), and she continued to do so at the Annual Meeting by Chairing the Outstanding Environmental and Engineering Geologic Project awarded at the meeting. **Gretchen Mora** managed our Publicity and Sponsorship of events through corporate donations towards the Annual Meeting. AEG wishes to wholeheartedly thank those sponsors who donated to our group and

helped make the Annual Meeting a success.

By all accounts of the Moderators, Speakers and attendees, the student volunteers at the meeting were an immense help and did a great job with those fussy slide projectors and PowerPoint presentations. We wouldn't have had all those great students in attendance if not for **Corinne Stewart**, and her gift of corralling students, or "herding cats," as we like to say. Thank you to the students of San Jose, Iowa, Missouri, Texas and all the other states that attended the meeting and who volunteered to help us out!

As well as student volunteers, we would like to thank all of the Technical Session and Symposia Moderators. There's nothing like telling someone to hurry up and finish their talk again and again!

Last but not least, we cannot forget **Julie Keaton**, the Meetings Manager of AEG. Without her exceptional negotiating and organizing skills, coolness under fire, and uncommon common sense, our meetings would be a little less smooth, a little more stressful (and we don't want that!). Thank you, thank you, thank you, from a grateful Section Staff and Planning Committee for all your hard work.

AN INTERVIEW WITH PRESIDENT REX UPP

As the end of the last day of Technical Sessions ended at the Annual Meeting, I caught up with our new AEG President, Rex Upp, and asked him a few questions about the future of AEG and his Presidency. As I didn't have a tape recorder, all of the answers to my questions have been paraphrased. – Ed.

Ed: Given that in the last decade the Association had a few "rocky" spots, what is the status of AEG now?

RU: The Association is in the black, is sound, and has been that way for a while. We are increasing our reserves slowly, but that is not our primary focus right now. Our Number One goal is to provide services to our members and increase our member retention rate. In order to do this you have to spend some money.

Ed: What efforts will be made to increase membership in the next year?

RU: Improving our member services will help increase the membership. We are currently developing short courses that will be given around the country and allow those members, especially in struggling sections, to have access to new technology and useful information.

Ed: What are your personal goals as the new President of AEG?

RU: I would like to increase revenues through advertising and sponsorship in the *AEG News* and the short courses we are planning.

Continued on Page 7

Interview with Rex Upp (continued)

Ed: What has been your fondest memory (so far) of your involvement with AEG?

RU: I joined AEG in 1976. Rex thinks a while before continuing. I would have to say that just attending the Annual Meetings before I was on the Board of Directors was great. I like participating in the meetings, going on field trips, speaking, etc. However, I have really enjoyed working with the Executive Council during the last 5 years.

Ed: What lasting contribution do you hope to make as the new AEG President?

RU: I think a good base of continuing financial support through advertisers and sponsors in the *News* would be a great contribution.

Ed: What are your other ideas for the AEG News?

RU: The last issues have been the size they were originally intended to be – about 32 pages. I would like to see more coverage of people and things happening in the Sections, more articles, more photos, more things of interest to everyone. We have several new things planned for the February issue. We want to encourage members to send in more things for publication.

Ed: This last question occurred to me as I was reading your short resume on the Officer's Ballot I received this summer: How come you have SO MANY degrees?! (For those of you who don't realize it, Rex has 6 degrees – 1 BA, 2 BS, 2 MS, 1 PhD.)

RU: Well, that's what my first President's Column in the *AEG News* is going to be about – how I got into geology. When you do a few degrees concurrently, you end up getting quite a few in a little amount of time.

Thank you, Rex. We look forward to a fun year!

Thank You to AEG Corporate Sponsors from the
San Francisco Section!

Applied Geomechanics – Santa Cruz
Exponent Failure Analysis – Menlo Park
Upp Geotechnology – San Jose

EMPLOYMENT

ENGINEERING GEOLOGIST

Innovative and growing consulting firm has outstanding opportunity for a Certified Engineering Geologist in our Mountain View or San Ramon office. Successful candidate must have a B.S. or M.S. in geology, with 5 to 10 years of experience in geologic hazards investigations. Experience directing environmental investigations and remediation programs is desired but not required.

We provide excellent benefits including stock options, 401(k), quarterly incentive profit sharing and benefits cafeteria plan. Apply on-line at www.lowney.com, fax resume to Lowney Associates at (650) 967-2785, or mail to 405 Clyde Avenue, Mountain View, CA 94043.

STAFF/PROJECT ENGINEERING GEOLOGIST

Small specialty geologic consulting firm seeks a staff/project-level engineering geologist to join its Mill Valley, California office. Candidates should have a BS or MS (preferred) in geology and 3-5 years experience in engineering geology and evaluation of geologic hazards. Work experience should emphasize project coordination, subsurface exploration, mapping, air photo analysis, and report preparation.

Fax or mail resume to K. Townsley, 25 Evergreen Avenue, Suite 8, Mill Valley, CA, 94941. Fax: (415)-383-1871, email: gilpngeo@pacbell.net.

HYDROGEOLOGIST

The Department of Geosciences of San Francisco State University invites applications for a tenure-track faculty position at the assistant professor level in hydrogeology, beginning August 2001. The position requires a Ph.D. in geology or a related field and a strong commitment to excellence in teaching and research. The successful candidate will be expected to teach at all academic levels and will be primarily responsible for teaching undergraduate and graduate courses in hydrogeology and groundwater contamination, with secondary involvement in engineering geology and/or geophysics. Responsibilities will include maintaining an active research program that involves graduate and undergraduate students. We seek someone who will work with local environmental firms and agencies and assist in building our new graduate program in Applied Geosciences. Some teaching and industry experience is preferred; strong quantitative skills are essential.

To apply, send a curriculum vitae, a statement of teaching and research interests, and names and addresses of three references to: Karen Grove, Dept. of Geosciences, San Francisco State University, San Francisco, CA 94132. Applications should be received before January 15, 2001. San Francisco State University is an Equal Opportunity/Affirmative Action employer.

GEOLOGISTS, ENGINEERS, ENVIRONMENTAL PROF.

The IT Group is currently accepting resumes for geologists, engineers, chemists, and environmental professionals at our Northern California offices in San Jose, Oakland, Concord and Sacramento. Contact Frank Hackett at 4005 Port Chicago Highway, Concord, 94520. The phone number is 925-288-9898, or visit our web site at www.theitgroup.com.

ASSOCIATION MEETINGS

October 2000 ASCE Technical Workshop

Topic: In-Situ Soil Properties Using Electrical Methods
Speakers: Prof. K. Arulanandan, Univ. of California, Davis
Ron Heinzen, Kleinfelder, Inc.

Date: Tuesday, October 17, 2000

Time: 5:45 pm – 7:15 pm

Location: Caltrans Auditorium, Oakland, CA

Cost: \$5, Students Free

RSVP: 415-546-6546 by Monday, October 16, 2000.

Gretchen Mora – Newsletter Editor
37192 Oak Street
Fremont, California 94536

AEG October Newsletter
October 10 – AEG Section Meeting
At Sinbad’s Restaurant, Embarcadero
San Francisco

RESERVATION FORM – October 10, 2000 AEG Dinner Meeting, 6pm
Sinbad’s Restaurant, Embarcadero, San Francisco

Please Fax or Mail your reservation to arrive before noon, Friday, October 6

Fax to Corinne Stewart, c/o Pacific Geotechnical Engineering (408-779-6879) - Check or Cash at the door – Do not mail or fax payment.

Dinner and Meeting Cost: \$28 – members or spouses \$14 – students \$30 – others

NAME _____ COMPANY _____

TELEPHONE NO. _____ NO. OF PEOPLE _____

PERMANENT RESERVATION FORM

AEG San Francisco Section Monthly Dinner Meetings are usually but not always on the 2nd Tuesday of each month.

I will attend and make payment for each meeting. If I am unable to attend I will fax or mail a cancellation notice to

Corinne Stewart (fax: 408-779-6879) by noon, the Friday before the meeting.

NAME _____ TELEPHONE NO. _____

BILLING ADDRESS _____

SIGNATURE _____ DATE _____

Dinner Costs are normally but not always: \$28 – members or spouses \$14 – students \$30 - others
