

NORTHERN CALIFORNIA GEOLOGICAL SOCIETY



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MEETING ANNOUNCEMENT

DATE: September 30, 2009

LOCATION: Orinda Masonic Center, 9 Altarinda Rd., Orinda

TIME: 6:30 p.m. social; 7:00 p.m. talk (no dinner) Cost: \$5 per regular member; \$1 per student or K – 12 teachers

SPEAKER: **Dr. John Karachewski,**
Research Hydrologist
Dept. Toxic Substances Control,
Emeryville, California

Geology of the San Francisco Bay Region – “Photographs That Didn’t Make it Into the Book”

This presentation will explore the beauty and diversity of Bay Area landscapes with a focus on geologic, hydrologic, and environmental themes. Internationally renowned photographer Galen Rowell noted that the San Francisco Bay area holds the most extensive system of wild greenbelts of any major metropolitan area in the world, with more than 200 parks, preserves, and protected areas, that combined exceed the acreage of Yosemite National Park. This presentation highlights geologic landscapes in familiar parks from a new perspective and introduces exciting discoveries from lesser known parks. This presentation mimics the organization of the UC Press book by Doris Sloan and the NCGS presentation of September 2006, by proceeding counter-clockwise around the Bay from Marin County to the North Bay. Variations of these geoscape (geologic landscapes) travelogues have been presented to numerous school groups and the general public in an effort to increase scientific understanding and support for the geosciences.

Biography: **Dr. John Karachewski** joined the California-EPA and Department of Toxic Substances Control (DTSC) in 2008. John started his career with Amoco Production Company drilling horizontal wells in the Williston Basin of North Dakota, but transitioned to the environmental sector when he moved to the Bay area in the early 90s. John has conducted geology and environmental projects throughout the western United States from Colorado to Alaska to Midway Island and throughout California. He received his Master’s degree from Western Washington University and his ... *Continued on the back...*

NCGS 2009 Calendar

Time to Renew Your Membership
See attached membership form!
A suggestion - Bring it to the first meeting!!
(It'll be a good talk – they all will be good!)

Wednesday September 30, 2009

Bay Area Geoscapes: Geology of the San Francisco Bay Region – Photos That Didn't Make it Into the Book; **Dr. John Karachewski**, Dept. Toxic Substances Control
7:00 pm at Orinda Masonic Center

Thursday October 1, 2009

The Sedimentary Record of Human Evolution, Dr. Gail Ashley, Rutgers University, New Brunswick, N.J.
7:00 pm at Lafayette Veteran's Memorial Building, 3780 Mt. Diablo Blvd.

Wednesday October 28, 2009

The Loma Prieta Earthquake Turns 20; What we Have Learned From Seismology, Engineering & Politics; **Dr. Jack Boatwright**, U.S.G.S, Menlo Park
7:00 pm at Orinda Masonic Lodge

Wednesday November 18, 2009

EARLY DATE!!

Massive Ionization at the Air-to-Ground Interface as Possible Pre-Earthquake Indicator – **Dr. Friedmann Freund**, NASA Ames Research Center, Moffett Field, CA

December 2009 - As usual no meeting!

Wednesday January 27, 2010

The Earthquake of 1868 and the Birth of Seismically Resistant Architecture in California **Dr. Stephen Tobriner**, Professor Emeritus of Architecture, UC-Berkeley

Upcoming NCGS Field Trips

Do you have a place you've wanted to visit for the geology? Let us know. We're definitely interested in ideas. For those suggestions, or for questions regarding field trips, please contact Rob Nelson at jmc62@sbcglobal.net or John Christian at: jmc62@sbcglobal.net. In the mean while there is one upcoming field trip!

October 23, 2009
Friday 1:00 – 4:00
p.m. FREE!!

A Tour of New Bay Bridge Construction The San Francisco-Oakland Bay Bridge Seismic Safety Projects, Caltrans Personnel

Registration: Contact Tridib Guha by email @ tridibguha@sbcglobal.net Due to boat capacity, the boat tour is limited to a maximum of 25 people. The meeting place will be sent to the 25 registrants.

CCGO Fund Raiser Meeting

Tuesday 6 p.m. October 13th 2009
Sinbad's Restaurant, Pier 2, San Francisco
Hosted by
Association of Engineering Geologists,
San Francisco Section

Due to the recent elimination of the Board of Geology and Geophysics (BGG) the California Council of Geoscience Organizations (CCGO) has organized a fund raiser. Funds will assist in current efforts to find and support future options for Professional Geologists. **See the attached flyer for more details. Donation for dinner: \$50/person.**

Understanding Volcanoes May Be the Key to Controlling Global Warming **Dr. Peter L. Ward**, U. S. Geological Survey in Menlo Park, California, Retired (abstract & bio on flyer)

Peninsula Geologic Society

Upcoming meetings

For an updated list of meetings, abstracts, and field trips go to <http://www.diggles.com/pgs/>. The PGS has also posted guidebooks for downloading, as well as photographs from recent field trips at this web address. Please check the website for current details, they were not yet posted at press time.

Association of Engineering Geologists

San Francisco Section

Upcoming meetings

Meeting locations rotate between San Francisco, the East Bay, and the South Bay. Please check the website for current details:

- For further meeting details go to: <http://www.aegsf.org/>

Demise of the California Board of Geology and Geophysics

As many are aware with the July passing of the state budget the California legislature also eliminated the Board of Geology and Geophysics, reportedly as a cost savings measure. Confounding this interpretation is the understanding that the BGG was fully self funded with registrant's fees. It appears that only two of nine fully funded positions will be transferred, thus the "cost savings". Is this effective utilization of registration fees? This will obviously affect many of our members' livelihoods. Following we present a series of communications to professional geologists and geophysicists from several geologic organizations so that a fuller understanding of the situation and opinions within the profession lie. There is a social networking site that gathers a great deal of what is occurring relevant to this issue. This site is located at: <http://californiapg.ning.com/>. We encourage you to check the site for changes on this issue as they develop. **If visiting the site, please take the time to register so that you can be easily contacted if and when the time comes that letters to legislators would be beneficial.**

Charles Nestle, working at the County of Los Angeles Department of Public Works Geotechnical & Materials Engineering Division, has provided significant personal time to track the changing situation. He has compiled an eight page PDF *Question and Answers* on the status of the demise of the BGG. Rather than send it to all members, you can find it posted on the NCGS website. It is also at the ping site listed above.

From **Bill Godwin**, Chair, AEG San Francisco Section; 8/26/09 (Adopted from Southern California Section letter, by **Peter Thams**, 8/21/09):
Subject: California Board for Geologists and Geophysicists (BGG) Elimination

Dear Members of SF Section of AEG and other concerned Geoscientists:

For the first time since it's inception 1968, the independent Board for Geologists and Geophysicists (BGG) has come to a surprising and abrupt end with

the passage of AB 20 4x during budget negotiations last month. AB 20 4x eliminated the BGG and transferred the responsibility for the implementation of the Geologists and Geophysicists Act (Act) to the Board for Professional Engineers and Land Surveyors (BPELS). Along with the transfer of responsibility and mission, AB 20 4x transferred only two personnel years previously allocated to BGG to BPELS. It is not certain at this time how BPELS will chose to utilize the personnel years, but what is certain is that early hopes that geologic professionals will be appointed to BPELS, and that the name of the board would be change to reflect its representation of geologists and geophysicists, will not be realized. The makeup of BPELS and the name of the board are determined by legislation just as with BGG. Only new legislation can change that. How could this have happened and what if anything can be done about it? Without speculating too much on the process and personalities involved, it is fair to say that legislators were simply strong armed into accepting a last minute deal to reach a budget compromise, and that deal included the reorganization of government that the Governor has unsuccessfully pursued for the last six years. And I would like to emphasize unsuccessfully because the BGG survived challenges through the California Performance Review and the Governor's Reorganization Plan, where each time the appropriate panels including the Little Hoover Commission and the Joint Committee on Boards, Commissions and Consumer Protection (Joint Committee) met in public hearings and accepted testimony, and each time concluded that the existence of the BGG was necessary to protect the public health and safety and recommended against the reorganization effort.

An important point here is that repeal of legislation authorizing boards and commissions requires the Joint Committee to hold hearings and prepare a final report with its recommendation. Business and Profession Code (BPC) Section 7810, which is the section authorizing the BGG and which was repealed by AB 20 4x, states "The repeal of this section renders the board subject to the review required by Division 1.2 (commencing with Section 473)." Section 473.2 states that "All boards to which this chapter applies shall, with the assistance of the Department of Consumer Affairs, prepare an analysis and submit a report to the Joint Committee on Boards, Commissions, and Consumer Protection no later than 22 months before that board shall become inoperative." So, not only has the Joint committee previously met to evaluate the Governor's reorganization plan and rejected it,

AB20 4x simply ignores the required review under Division 1.2.

AEG California Section Chairs, in consultation legal counsel believe that AB 20 4x should be challenged by seeking an injunction against its implementation. We also believe that as an organization dedicated to the promotion of professional standards it is our responsibility to lead the effort. By this letter, I request feedback from the San Francisco section membership in this regard. Your Section BOD will confer on this matter and convey a formal vote authorizing an expenditure of significant funds to file this injunction, which through the preliminary stages is expected to cost up to \$15,000. We are working on cost sharing agreements with the other two California sections and with the national organization, but at this time do not have firm commitments. I would like some feedback from membership on AEG involvement in the process and the expenditure of funds in the next few weeks. You may contact me by email at godwin@lettis.com or by phone at (415) 256-6070, ext. 123. I'm looking forward to hearing from you.

Bill Godwin, Chair, AEG San Francisco Section

From **Jim Jacobs**, AIPG – CA Chair
Subject: AIPG California Section - brief update on AB20

To: AIPG California Section Members

Greetings:

Below is a compilation of some information available about the recently passed Assembly Bill No. 20 and the elimination of the Board for Geologists and Geophysicists (BGG). We are still evaluating the ramifications and options for professional geologists in California. It appears that the wording that was slipped into Assembly Bill No. 20 that allowed for the elimination of the BGG and transferring of the functions of the BGG to the engineer's board occurred in a manner; well let's just say it was not done in the bright sunlight with lots of notifications and public participation. From what I understand, the offensive language was inserted in the last minutes before the budget bill was signed and was done in a most secretive manner. Nonetheless, we will evaluate the outcome to position our profession in the best light possible and to take advantage of any opportunities for improvements that might exist. We welcome your comments and suggestions.

The information included below are from various sources, which have been noted:

Kevin Brown of the San Francisco Regional Water Quality Control Board told me of a recent blog from some professional geologists regarding AB 20 and the elimination of the Board for Geologists and Geophysicists (BGG). <http://californiapg.ning.com/> Check it out!

Charles Nestle has been spending large amounts of time on behalf of the profession to track the bills in Sacramento. He is an active AEG member, and an officer with the California Council of Geoscience Organizations (www.ccgo.org) He will be preparing a more detailed article shortly that will be posted and sent around. Charles Nestle had written the following brief article for AEG: As part of a budget package of more than two dozen bills approved by the California legislature on July 23, 2009, on July 28 governor Arnold Schwarzenegger approved Assembly Bill No. 20 (<http://www.leginfo.ca.gov/bilinfo.html> type "20" in the search box and click on "AB4X 20 Audra Strickland") that reorganized some of the regulatory boards within the Department of Consumer Affairs. AB 20 eliminated the Board for Geologists and Geophysicists (BGG) and required the Board for Professional Engineers and Land Surveyors (BPELS) to administer the Geologists and Geophysicists Act. The bill makes conforming changes and requires BPELS to receive only two of the current nine staff positions that were previously allocated to the Board for Geologists and Geophysicists for the performance of responsibilities under the act. BPELS "shall succeed to and is vested with all the duties, powers, purposes, responsibilities, and jurisdiction previously vested in the Board for Geologists and Geophysicists," according to the newly amended version of Section 7801 of the Business and Professions Code. The new law takes effect on October 23, 2009, 90 days from July 23. The Sacramento, San Francisco, and southern California Sections of AEG had been monitoring the budget process and meeting with legislators, knowing full well that the governor's 2004 proposal to eliminate boards could resurface.

Indeed, as of April, draft legislation had been prepared to transfer responsibility of administering the Geologist and Geophysicist Act to the State Mining and Geology Board (SMGB). The change from the SMGB to BPELS allegedly occurred during a 15-20 minute discussion late in the evening of July 22nd, and the legislature and their staff were not made aware of the change until a few hours before voting was to take place.

Among the things this bill does not do is provide for geologist positions on BPELS, change the name of

the board to include geologists, or provide specific details of how the transfer of responsibility is to be accomplished without impacting board functions (i.e. administration of geologist licensure examinations, vetting of licensee applications, judging the merits of complaints submitted by the public, etc.). Because of the potential for significant impact to public safety caused by the severe limitations imposed by the way this legislation was handled, the three California Sections of AEG, with advice from their lobbyist, have been making preliminary inquiries to legislative staff and weighing all possible options. At the time this report is written, draft letters challenging the validity and appropriateness of this legislation are being prepared. The possibility of a legal challenge is also being reviewed by an attorney who is also a licensed geologist.

California Geology Board eliminated; folded under Engineer Board read CA State Assembly Bill (<http://www.sandiegoeologists.org/StateAssemblyBill20Ch18.pdf>) - from the San Diego Association of Geologists:

<http://www.sandiegoeologists.org/Calendar.html>

On July 28, 2009, the governor approved Assembly Bill No. 20 (4th Extraordinary Session 2009-10). As part of this bill to reorganize regulatory boards of the Department of Consumer Affairs, it eliminated the Board for Geologists and Geophysicists (BGG). The bill requires the Board for Professional Engineers and Land Surveyors (BPELS) to administer the Geologists and Geophysicists Act. The bill makes conforming changes and requires BPELS to receive 2 personnel-years that were previously allocated to the Board for Geologists and Geophysicists for the performance of responsibilities under the act. BPELS "shall succeed to and is vested with all the duties, powers, purposes, responsibilities, and jurisdiction previously vested in the Board for Geologists and Geophysicists," according to the newly amended version of Section 7801 of the Business and Professions Code. The new law takes effect on October 23, 2009, 90 days from July 23.

This is a done deal. The Board for Geologists and Geophysicists will cease to exist after October 23. This action took place without consultation with either BGG or BPELS. Neither were public hearings held on this matter. However, all the functions of BGG are to be administered by BPELS. What it means is that the BGG Executive Officer will be speaking to the BPELS Executive Officer to plan for a smooth transition. It is likely that two staff members from BGG will continue their work at BPELS. However, the law does not require it, so this is uncertain.

The Geologists and Geophysicists Act requires licensure of the practice of geology. Therefore, candidates for licensure will continue to apply for

licenses, pay fees, and take exams, as usual. Also, existing licenses to practice will be renewed by the paying of fees in the usual way. It is uncertain how the enforcement of geologic practice will function under BPELS. However, there is anticipated to be no change in pending enforcement actions.

There is no provision in the new law to change the name of the Board for Professional Engineers and Land Surveyors to include "Geologists." Neither was any provision made for geologist or geophysicist representation on the BPELS. In states where a single board regulates the practice of geology and other professionals, at least one member of that board is a geologist. For example, in Pennsylvania the Board for Professional Engineers, Land Surveyors and Geologists consists of 5 engineers, 2 geologists, 2 land surveyors, 3 public members, and a commissioner. In Arizona the Board of Technical Registration consists of 2 architects, 3 professional engineers, 1 public member, 1 landscape architect, 1 geologist or assayer, 1 land surveyor. The Arizona board regulates a larger set of professions than in California.

Many of the functions of the BGG are handled by the volunteer board members and volunteers on various committees including the Examination Committee, Policy Committee, Enforcement Oversight Committee, and Professional Affairs Advisory Committee. It is unclear if these committees will continue under BPELS. As professional geologists it is our professional duty to stay active or become more active in the regulation of our practice in California. We need to let our elected representatives know that we are concerned about maintaining high standards of practice. The BGG had been singled out as a model board in the Department of Consumer Affairs. We will want to make sure that our license fees go toward functions and activities related to geologists and geophysicists. We also want to work toward representation on the board that will regulate our profession.

This is an opportunity to work closer with engineers with whom many of us already have close working relationships. Please keep current and active as the functions of the Geologists and Geophysicists Act are transferred to the Board for Professional Engineers and Land Surveyors.

-Jim Jacobs

Contact: jimjacobs@ebsinfo.com

tel: 415-381-5195



2009-10 AAPG Distinguished Lecture

Abstract

GAIL ASHLEY

Rutgers University
Piscataway, New Jersey

Funded by the AAPG Foundation

The Sedimentary Record of Human Evolution

When and where humans evolved are fundamental questions that capture our attention and spark curiosity. Until recently most geologists involved in human origins research were geochronologists interested in dating fossils and adding branches to the hominin family tree. Questions now being asked need an interdisciplinary approach. Why did humans leave the safety of trees? What were the drivers that may have nudged hominids toward bipedalism and developed species that failed, while only one ultimately succeeded? Were the development of tools, the exodus from Africa, and brain development leading to language, art and imagination a passive or direct response to some paleo-environmental stresses?

Sedimentary Geology is crucial to finding the answers to these questions. Studies involving (1) stratigraphy and correlation, (2) paleoclimate and climate change, (3) paleoenvironmental reconstruction, (4) water and food resources, (5) sourcing of raw materials for stone tools, and (6) associated flora and fauna at sites in East Africa show that Sedimentary Geology provides fundamental insights into questions of human origins.

Gail Ashley



Dr. Ashley is a geoscientist of international stature. She is Professor II of Geological Sciences at Rutgers's University (New Brunswick, NJ) and Director of the Quaternary Studies Graduate Program there. She has been at Rutgers for 30 years and supervised 37 graduate students (~50% were women). Her current research focuses on the paleoclimate record of East Africa during the time of early human evolution. She received her PhD from University of British Columbia and has served as president of the Geological Society of America (GSA), the Society for Sedimentary Geologists (SEPM), the American Geological Institute (AGI) and Vice-President of the International Association of Sedimentologists (IAS). Her publication list includes over 75 peer-reviewed articles and editorship of six books. She has also served as Editor-in-Chief of the international publication, *Journal of Sedimentary Research* (1996-2000) and on numerous National Research Council and National Science Foundation boards, committees and panels. She has received the New Jersey Women of Achievement Award, the Association of Women Geoscientists "Outstanding Teacher Award" and both the Distinguished Service Award and Honorary Membership from SEPM.

NORTHERN CALIFORNIA GEOLOGICAL SOCIETY



NORTHERN CALIFORNIA GEOLOGICAL SOCIETY and AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

K-12 EARTH SCIENCE TEACHER OF THE YEAR AWARD

**\$750 Northern California Geological Society
\$500 Pacific Section AAPG
\$5,000 National AAPG**

Call for Nominations for the Year 2009 - 2010 NCGS Competition

The Northern California Geological Society (NCGS) is pleased to announce that it will accept applications from candidates in the Northern California region for the Year 2009 - 2010 competition for the Earth Science Teacher of the Year Award. The \$750 NCGS award is intended to recognize pre-college earth science programs already in place, and to encourage their organization in districts where they have not been fully developed. Nominations of qualified K-12 teacher candidates are solicited from teachers, school administrators, teacher outreach programs, and other interested parties.

The NCGS awardee's application will be submitted to a regional competition sponsored by the American Association of Petroleum Geologists (AAPG) Pacific Section. The Pacific Section winner will receive a \$500 award at the Pacific Section regional meeting in Anaheim, California, May 27 - 27, 2010, plus up to \$250 toward meeting expenses. The regional winner's project will be submitted to AAPG headquarters for the national contest. The national winner will receive an expense-paid trip to attend the national AAPG meeting in Houston, Texas, April 2011, to receive the national award.

At the national level, the AAPG Foundation presents an annual \$5,000 award to a K-12 teacher for *Excellence in the Teaching of Natural Resources in the Earth Science*. The award recognizes balanced incorporation of natural resource extraction and environmental sustainability concepts in pre-college Earth science curricula. It includes \$2,500 to the teacher's school for the winning teacher's use, and \$2,500 for the teacher's personal use.

The deadline for application submittal by candidates for the \$750 NCGS award is Monday, January 18, 2010

Interested candidates or nominators can request Application Information and an Entrant Application Form, or submit an application, by contacting:

Paul Henshaw
Chair, K – 12 Geosciences Education Committee
Northern California Geological Society
6 Rachel Ranch Court
Clayton, CA 94517
(925) 673-8745
candphenshaw@comcast.net

NORTHERN CALIFORNIA GEOLOGICAL SOCIETY



NORTHERN CALIFORNIA GEOLOGICAL SOCIETY

K-12 GEOSCIENCE TEACHING AWARD

\$500 Northern California Geological Society

Call for Applications for the Year 2009 - 2010 NCGS Competition

The Northern California Geological Society (NCGS) invites applications from candidates in the Northern California region for the Year 2009-2010 competition for the K-12 Geoscience Teaching Award. Applications may be submitted by any teacher regardless of experience.

Applications reflecting teaching of units addressed to any of the earth or environmental sciences, including but not limited to mineralogy, petrology, economic geology, geomorphology, paleontology, hydrology, and planetary geology are invited from physical science, earth science, and geology teachers.

The deadline for application submittal by candidates for the \$500 NCGS award is Monday, January 18, 2009. **The application process is uncomplicated.**

The winner will receive a \$500 award at a Northern California Geological Society meeting in Orinda in late February 2010.

Interested candidates can request an *Application Information* and an *Entrant Application Form* or submit an application by contacting:

Paul Henshaw
Chair, K – 12 Geosciences Education Committee
Northern California Geological Society
6 Rachel Ranch Court
Clayton, CA 94517
(925) 673-8745
candphenshaw@comcast.net



NORTHERN CALIFORNIA GEOLOGICAL SOCIETY

2009-2010 COLLEGIATE SCHOLARSHIP PROGRAM

The Northern California Geological Society is pleased to announce the availability of scholarships for undergraduate and graduate students for the 2009-2010 Academic Year as follows:

Undergraduate Scholarship Awards of \$ 500

For candidates working toward completion of a Senior Thesis and/or Honors Research Program.

Funding is provided for projects implemented during the 2009-2010 Academic Year.

Application deadline is October 31, 2009 with an award date on or about December 1, 2009.

The Richard Chambers Memorial Scholarships for Graduate Degree Programs

\$ 1,000 scholarships for students working towards the Masters Degree
\$ 2,000 scholarships for students working towards the Doctorate Degree

Funding is provided for projects scheduled for completion during the 2009-2010 calendar years.

Application deadline is December 15, 2009 for an award date on or about January 31, 2010.

Multiple scholarships may be awarded at each academic level.

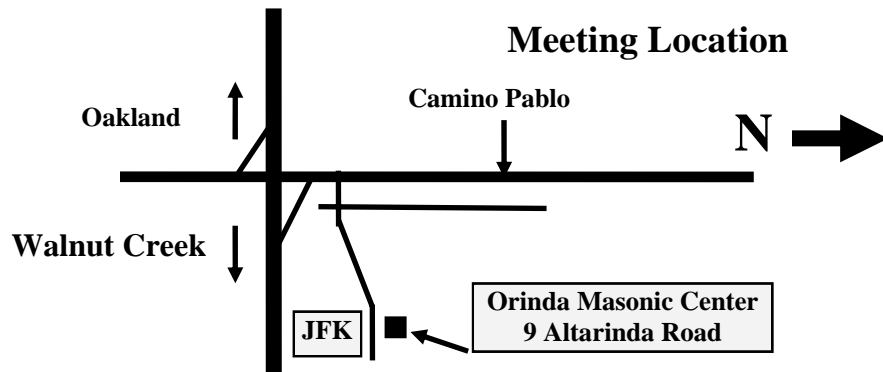
Funding priorities for these scholarships will be directed towards research focused on topics including geologic mapping, structural, economic, engineering, environmental geology, geophysics, stratigraphy, paleontology or paleo-ecology, implemented in (northern) California or states immediately adjacent to (northern) California. Recipients may/will be invited to present their research at a regular evening NCGS meeting in Orinda, California.

Individual scholarship announcements with instructions can be found on the Northern California Geological Society's web-site <http://www.ncgeolsoc.org>. They can also be requested from:

Phillip Garbutt, Chair
NCGS Scholarship Committee
6372 Boone Drive
Castro Valley, CA 94552-5077

email: plgarbutt@comcast.net
Voice: (510) 581-9098

Previous scholarship recipients and their projects may be viewed on the Northern California Geological Society's web-site <http://www.ncgeolsoc.org> issue date: August 14, 2009



doctorate from the Colorado School of Mines. In addition, he has taught at Diablo Valley College and led field trips for UC Berkeley Extension. John has held several officer positions with NCGS, including 3 stints as program chairman. John is an avid hiker and enjoys photographing landscapes during the magic light of sunrise and sunset. Examples of his images can be viewed at: www.geoscapesphotography.com

Can you believe it? You can believe it!
It's time to renew your membership for the 2009 – 2010 NCGS
Membership Year! Please do so!!
(September to September)
We'll all appreciate it!

Northern California Geological Society
 c/o Mark Detterman
 3197 Cromwell Place
 Hayward, CA 94542-1209

Would you like to receive the NCGS newsletter by e-mail? If you are not already doing so, and would like to, please contact **Dan Day** at danday94@pacbell.net to sign up for this free service.

NORTHERN CALIFORNIA GEOLOGICAL SOCIETY



2009-2010 Renewal Form

Please fill out this form and attach your check made out to NCGS.

Mail to:

Phil Reed
NCGS Treasurer
488 Chaucer Circle
San Ramon, CA 94583-2542

Dues	Regular (\$15)	\$ _____
	Student (\$ 5)	\$ _____
Contribution	Scholarship	\$ _____
	Teacher Award	\$ _____
Total		\$ _____

Please provide the following information:

Name: _____

e-mail: _____

I would like to receive the monthly newsletter via: E-mail _____ Regular mail _____

I can help with:

Programs _____ Field Trips _____ Newsletter _____ Web Site _____

K-12 Programs _____ Scholarships _____ AAPG Delegate _____ Membership _____

Please complete the following *only* if there are changes since last year:

Address _____

City, State, Zip _____

Phone: Home (____) _____ Work (____) _____ Fax (____) _____

Employer _____ Job Title _____