Welcome to Student Night!

Each year we celebrate our student members with a special night in recognition of all the hard work they put in as they work to become the next generation of geologists working here in the Sacramento Section. In years past, this night has been one of our best and most well-attended events, so be sure to put in your RSVP early to make sure you don’t miss out! As an added bonus, this year we have special guest speaker Dr. Jim Moore coming to give us a unique biographical picture of the exciting adventures of Clarence King, the first director of the USGS! So be sure that you don’t miss this opportunity to join us at our October AEG Sacramento Section to celebrate student night! Remember, RSVP’s are strongly encouraged! We look forward to seeing you all there!

Section Meeting Date: October 30, 2007

Meeting Location: CSUS Alumni Center, California State University Sacramento (adjacent to Hornet Stadium). Take Howe Ave. to College Town Dr./State University Dr. South. Turn right on Stadium Drive for parking. RSVP’s are enthusiastically encouraged!

Meeting Schedule: 5:30 - 6:00 Sign-In
6:00 - 6:45 Student Poster Session & Social Hour
6:45 - 7:45 Dinner, Announcements & Awards Presentation
7:45 - 8:30 Speaker Talk & Slide Show
8:30 - 8:45 Questions & Answers
Clarence King- Exploration and Discovery in the American West

Dr. James G. Moore
United States Geological Survey

Abstract:

“King of the 40th Parallel”, published in 2006 chronicles the adventures of Clarence King, the founding director of the USGS. It contains 150 illustrations including many historic photographs and maps.

King was fascinated with volcanoes. Through close association with two of his Yale professors, James Dana and George Brush, he was captivated by stories of Mount Shasta, which motivated him to cross the continent with a wagon train. He climbed Mount Lassen twice in 1863 and 7 years later climbed Mount Shasta and found there the first active glaciers yet discovered in the nation. Because of this discovery he sent geologists Samuel Emmons to the unclimbed Mount Rainier and Arnold Hague to Mount Hood. They also discovered moving glaciers. In 1872 King studied the active lava lake in the firepit Halemaumau at Kilauea volcano.

At the age of 25 he commanded the Geological Exploration of the 40th Parallel, a survey program that mapped a 100-mile-wide strip across the Great Basin and Rocky Mountains on the planned railroad route. King’s leadership and the series of landmark maps and monographs that he prepared and edited, set the standard for excellence in earth science practice and publishing. When the existing four federal surveys were combined in 1879 to create the U.S. Geological Survey, King was the clear choice for Director of the new agency.

Dr. James G. Moore
United States Geological Survey

James G. Moore, now retired from the U. S. Geological survey, received his BS in geology from Stanford University, MS from the University of Washington, and Ph.D. from Johns Hopkins University. He conducted geologic studies for several decades in the central Sierra Nevada, which led to the Stanford University Press book: “Exploring the Highest Sierra”. The book weaves together the history of exploration and mapping of the range with the development of pioneering geologic concepts. Another book recently published: “King of the 40th Parallel—Discovery in the American West” recounts the adventures of Clarence King who became the first director of the U.S. Geological Survey.

Jim served as Scientist-in-Charge of the Hawaiian Volcano Observatory and has gone on to investigate about 20 on-going volcanic eruptions world-wide. He has participated in about 25 oceanographic cruises and in numerous dives in research submarines mostly to investigate volcanic rocks on the submerged flanks of young volcanoes.
Chairman’s Message

by

Eric Chase

This is my final message to you all as your section chair. I was just reviewing some of my past messages, including the first one I wrote, in order to gain a perspective on the past two years of activities. I must say we have been a busy group! We have conducted technical workshops/short courses, given away scholarships, and have assembled a wonderful list of technical speakers on an almost continual basis, all in furthering the aims of AEG. I am proud of all the volunteers who have accomplished this work. My special thanks to Vice Chairman John Pfeiffer, who has been responsible for organizing our speakers and our restaurant venues for these two years. John will be taking over the Chairman’s job from me, and I know you will all be in good and experienced hands with John at the helm.

I just returned from AEG’s annual meeting in Los Angeles, and I saw some of you there, giving technical talks and participating in the many events during the week. This meeting set a record for attendance, somewhere north of 750 attendees, which reflects the robust health of our organization, and most appropriate for our 50th anniversary. John Pfeiffer attended the Board of Directors Orientation workshop and about 7 out of 12 hours of the BOD meeting as a guest. By virtue of attending, John is getting up to speed quickly on the national business of AEG.

Our meeting this month is the increasingly popular student night at the Alumni Center at Sacramento State University. We will be featuring student poster presentations, awarding our annual graduate and undergraduate scholarships, and we will be treated to a great historical geology perspective from James G. Moore of the U.S. Geological Survey, whose subject is Clarence King - Exploration and Discovery in the American West.

There are many issues that face us in the practice of applied geology, both here in California (Naturally Occurring Asbestos, the continuation of our licensing of geologists, threats to our water supply, our supply of construction materials, the continuing mitigation seismic hazards, slope stability hazards, maintaining high earthworks construction standards) and across the nation. Through AEG we can remain informed and can act as a body to affect public policy in meaningful ways to protect public safety. I urge you all to remain vigilant and to act when and where action is needed.

As I go forward in my activities with AEG, including acting as General Chair for the 2009 Annual Meeting in South Lake Tahoe, I will carry the spirit of our section with me. Thanks everyone for your continuing attendance and volunteer support throughout the past two years. A new short course is in the works along with a field trip to be announced. As they say in Hawai’i “Imua!” which means “Forward!”

Eric Chase
Out-Going Chair
AEG Sacramento Section
Attention All Members!

The Sacramento Section of AEG has copies of past field trips and seminar publications available for purchase on our website! These valuable publications are available in very limited supply, so be sure to get your copy today by visiting our website at www.aegsacto.org/members/publications. Don’t miss out!

Opportunity Knocks!

For those of you who may not have explored the AEG Sacramento Section website (www.aegsacto.org) recently, we have a number of job openings posted on our job openings and announcements page. One of the newest postings include openings for engineering geologists and geotechnical engineers with Devine Tarbell & Associates here in Sacramento. We’ve also received word that the Utah Geological Survey is now accepting applications for the position of Manager of the Geologic Hazards Program!

To find out more about these and other opportunities, visit our website at www.aegsacto.org/members/jobs and click on the pdf links for each of the postings listed. You never know what opportunity might be waiting for you!

New Officer Elections

It is time once again for us to elect new officers to the AEG Sacramento Executive Board. As is usual, our incoming board will be made up of volunteers (OK, so some of them were forcibly drafted...but they’re here now). However, it is up to you, our members, to confirm their appointments by casting your ballot! A voting ballot is attached to this month’s newsletter. All you have to do is fill it out and return it to our current Section Secretary (Nate Manley) at the fax number provided. Alternatively, you can present your ballots to Nate at the October meeting. Help us confirm (and welcome) our new board by sending in your ballot today! Thanks!
October 2007 AEG Meeting
Facsimile Transmittal Sheet
(or e-mail to the address below)

To: Lisa Breckenridge (Wallace-Kuhl & Associates, Inc.)
    email: LBreckenridge@wallace-kuhl.com
Phone: (916) 372-1434
Fax: (916) 290-5429 From: _________________________________

Or You Can Sign Up Online at: www.aegsacto.org

Subject: October 2007 AEG Sacramento Section Student Night Meeting
Date: October 30th, 2007
Place: CSUS Alumni Center
    California State University, Sacramento
    (For directions, see page 7)
Time: 5:30 - 6:00 Sign-In
    6:00 - 6:45 Student Poster Session & Social Hour
    6:45 - 7:45 Dinner, Announcements & Awards Presentation
    7:45 - 8:30 Speaker Talk & Slide Show
    8:30 - 8:45 Questions & Answers

**Dinner Menu:**
Roast Baron of Beef w/ Live carving station
Vegetable Primavera fettuccine
Roasted red potatoes
Green salad
Rolls and butter
Carrot Cake
Coffee, decaf, iced tea, water

Cost: $35.00

Due to unusually large attendance at past events...
**RSVPs are strongly encouraged!**

Notes: All Geology Students Eat for Free!
Alcoholic beverages are available for those 21 and over on a cash basis.
## Event Calendar

<table>
<thead>
<tr>
<th>Date</th>
<th>Presenter/Organizer</th>
<th>Title/Topic</th>
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</thead>
<tbody>
<tr>
<td>January 30th</td>
<td>Keith Millard, Youngdahl Consulting Group</td>
<td>Landslide Repair on a Gold Rush Era Roadway</td>
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<tr>
<td>February 27th</td>
<td>Dr. Sandy Figuers</td>
<td>Construction vibrations and their effect on adjacent improvements</td>
</tr>
<tr>
<td>March 27th</td>
<td>Dick Hilton, Sierra College</td>
<td>Dinosaurs and Other Mesozoic Reptiles in California</td>
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<tr>
<td>April 20-21st</td>
<td>Rock Slope Stability Workshop</td>
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<tr>
<td>April 24th</td>
<td>Nate Manley, Sanders &amp; Associates Geostructural Engineering, Inc.</td>
<td>The Influence of Geologic Structures on Slope Stability and Geomorphic Development in the Shoo Fly Complex</td>
</tr>
<tr>
<td>May 29th</td>
<td>Dr. Edward Kavazanjian, Arizona State University</td>
<td>Post-Closure Development of Waste Landfills</td>
</tr>
<tr>
<td>June 26th</td>
<td>Yogesh Prashar, M2 Consultants</td>
<td>Numerical Modeling of Fault Rupture and Lateral Spreading related PGD for a Natural Gas Pipeline</td>
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<tr>
<td>July 25th</td>
<td>Dr. Terry West, Purdue University, AEG National President</td>
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<tr>
<td>August 28th</td>
<td>Ken Glotzbach (City of Roseville) and Chris Petersen (MWH)</td>
<td>Roseville Aquifer Storage and Recovery Project</td>
</tr>
<tr>
<td>September 24-29</td>
<td>AEG’s 50th Anniversary and Annual National Meeting, Sheraton Universal Studios, Los Angeles, California</td>
<td>AEG’s 50th Anniversary and Annual National Meeting, Sheraton Universal Studios, Los Angeles, California</td>
</tr>
<tr>
<td>October 30th</td>
<td>AEG’s Annual Student Night at CSUS</td>
<td>James G. Moore, USGS Clarence King - Exploration and Discovery in the American West</td>
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<tr>
<td>November</td>
<td>No Meeting</td>
<td></td>
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<tr>
<td>December</td>
<td>AEG/GRA Annual Joint Holiday Meeting</td>
<td>TBA</td>
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### AEG Sacramento 2007

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Directions to the CSUS Alumni Center

From Howe Avenue, take College Town Dr. west toward the CSUS campus. Continue straight through the traffic signal at State University Drive East (edge of campus) and drive one block to Stadium Drive. Turn right on Stadium Drive and immediately into the parking lot next to the Alumni Center.

Parking permits are required but will be available at no additional charge from the registration table.
AEG Sacramento Section

Official Ballot

Section Officers 2007 – 2009

Please vote once for each candidate by electronically placing an X next to the box, or write in your alternate choice in the space provided:

Chair    John Pfeiffer
Write In Choice:  ____________________

Vice - Chair   Nate Manley
Write In Choice:  ____________________

Secretary   Kelly Tilford
Write In Choice:  ____________________

Treasurer   Peter Holland
Write In Choice:  ____________________

When completed please return your ballot to section secretary Nate Manley as an attachment via e-mail: tnmanley@sbcglobal.net

Alternately you may bring your completed ballot in hard copy to the Student Night Meeting on October 30th at the Sacramento State University Alumni Center, or you may fax it to Nate Manley at (916) 729-7706.