

# AIPG CALIFORNIA SECTION



California Section – UC Davis Student Section

JANUARY 2016 NEWSLETTER

## THE COMMUNITY WE KEEP

At this time of year, we tend to become retrospective- how was the past year, how well did it stack up against other years, and what is in store for the future. We also think that the future will be better than the past. I always hope we will continue expanding our monthly meetings attendance and break past records (about 40 participants).

As a new year's resolution, I hope you will consider joining our meetings and become more active in the AIPG California Section – UC Davis community. We meet on a monthly basis to talk about what it means to be a professional geologist. The speakers have been terrific. They offer wisdom and insights into their varied and successful careers. The speakers provide the gift of honest and accurate advice, whether you are a student or seasoned professional. The AIPG community we keep in Davis, California, is welcoming and inclusive, and we welcome you to one or all of our next meetings, described below.

Regards,

A handwritten signature in black ink that reads 'James A. Jacobs'.

James A. Jacobs, C.P.G.  
California Section President

# January – May 2016 Meeting and Field Trip Schedule

## Meeting Details

All meetings are held at 6 pm at UC Davis Earth and Planetary Sciences • 2119 Earth and Physical Sciences • UC Davis • One Shields Avenue • Davis, CA 95616 • (530) 752-0350

**January 6, 2016; 6 pm at UC Davis**

### **SUCCESS IN MINING FOR GOLD AND OTHER MINERALS RELATES TO DEVELOPING A GEOLOGIC MODEL**

**Vic Chevillon** will talk about a career in mineral mining and prospecting. He is back by popular demand of the students and members. The emphasis of the talk and discussion will be using descriptive geology to derive a spacial and temporal genetic exploration model that can guide discovery and mineral resource delineation drilling; then applications of the model to guide mine development. Such an approach can optimize expenditures and results and compress the time frame for success. Vic will use the Levon Resources Ltd discovery results at Cordero, Mexico to highlight the approach he will discuss in the talk.

**February 3, 2016; 6 pm at UC Davis**

### **A LONG-LASTING CAREER IN WATER AND WORKING FOR THE GOVERNMENT AS A GEOLOGIST**

**Steven Phillips** of USGS will discuss his career in groundwater modeling, working for the USGS, and addressing many important water supply issues in the state. Steven Phillips' focus has been groundwater and involves using simulation models to better understand hydrologic systems and developing tools to help manage these systems. Ongoing projects include (1) developing a water management optimization model of the Modesto region to help evaluate management alternatives for a group of six water providers and users; and (2) developing a seepage management plan for the San Joaquin River Restoration Program. Most of his career has been addressing issues related to irrigated agriculture in the San Joaquin Valley, and artificial recharge, land subsidence, and public water-supply issues in Antelope Valley, California.

**March 2, 2016; 6 pm at UC Davis**

### **MUST-KNOW TECHNIQUES FOR RESUME WRITING AND INTERVIEW SKILLS – PUTTING YOUR BEST FOOT FORWARD**

**Steve Baker** and a group of regular AIPG Student Mentors will lead an interview-resume writing workshop for students, new job seekers and those having to reinvent themselves in the recent downturns or realignments in the oil, mineral and environmental industries. Please bring your existing resumes as well as dress for a job interview. Like last year, Steve will lead some real-time interviews with selected participants.

**April 6 2016; 6pm at UC Davis and May 14, 2016 Fieldtrip**

### **INSIGHTS INTO THE SUBTLE GEOCHEMISTRY OF CHROMIUM AND THE RING MOUNTAIN PRESERVE**

**Bill Motzer**, another popular lecturer who is asked back year after year, will provide insights into Ring Mountain Preserve in Marin County, in Tiburon, California where classic sections of the Franciscan Formation units are accessible. Bill's interest includes the geochemical cycles of naturally occurring chromium. A field trip to the Ring Mountain Preserve is planned for May 14,

2016 (Saturday) at 9 am. Donation of \$25 for AIPG professional members is encouraged. Student members are free.



Bill Motzer will lead a fieldtrip for AIPG professional and student members to Ring Mountain Preserve in Tiburon is planned for May 14, 2016.

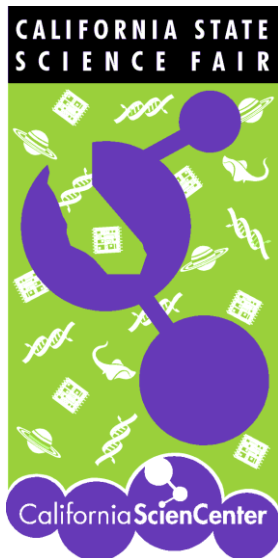
**May 4, 2016; 6 pm at UC Davis**

**SECRETS IN MAKING A CONSULTING CAREER IN STRUCTURAL GEOLOGY, NEOTECTONICS AND HAZARD ASSESSMENT**

**Jeff Unruh** will discuss his career as a consultant on large-scale geology projects. He is well regarded expert in structural geology, neotectonics, and seismic hazard assessment. His primary research interests include the kinematics and dynamics of continental deformation, with applications to seismic source characterization. Jeff's current projects include: crustal structure and evolution of the northern California Coast Ranges; kinematic analysis of seismogenic deformation in southern California; transpressional tectonics of the San Andreas system in northern California; large-scale kinematics of the Sierra Nevada microplate; role of buoyancy forces in localizing and driving deformation in southern California; neotectonic evolution of the Coso geothermal field, eastern California.

**SPONSORSHIPS AVAILABLE-** Meeting sponsors will get their company name in the meeting announcements which go out to about 300 geologists. They will have 5-10 minutes to go talk to the meeting participants about their company and interests, sponsors will have a table at the meeting to place brochures or other information, and their donation will be noted in the California Section news in the *The Professional Geologist* which goes out to over 7,000 geologists. The cost to sponsor the meeting is \$200, by credit card or check. If interested - contact: James Jacobs, California Section President; 510-590-1098; [jjacobs@clearwatergroup.com](mailto:jjacobs@clearwatergroup.com); Clearwater Group, 229 Tewksbury Ave., Pt. Richmond, CA 94801.

## **OTHER ACTIVITIES: Judging at the California State Science Fair: May 23-24, 2016**



The California State Science Fair is the final science fair of the academic year for students throughout the State of California in grades 6 - 12, serving California's future scientists since 1952. It is hosted by the California Science Center (formerly, the California Museum of Science and Industry).

The 65th annual California State Science Fair will be held in the California Science Center on May 23-24, 2016. This year we expect nearly 1000 participants from 400 schools throughout the State to meet in competition. The AIPG California Section gives out \$500 of awards every year, and Dave Sadoff has led this judging event for more than a decade. He has been helped by a variety of members, including Mark Rogers and Mehmet Pehlivan. If you are interested in helping, please contact Dave at [davesadoff@sbcglobal.net](mailto:davesadoff@sbcglobal.net).

The California State Science Fair is a major event for AIPG California Section. The exhibits are generally well thought out, and the winners are likely to become scientists. AIPG judges the earth science category and the innovation and level of motivation of the students is always reassuring and frequently exceptional.



**DONATIONS REQUESTED** – Encouraging students and professional members is a high priority for the AIPG California Section. We try to keep our meetings free to those wanting to participate. Even our field trips have been free. Want to contribute to the AIPG California Section to help offset the costs of activities? We accept checks and credit cards. If interested - contact: James Jacobs, California Section President; 510-590-1098; [jjacobs@clearwatergroup.com](mailto:jjacobs@clearwatergroup.com); Clearwater Group, 229 Tewksbury Ave., Pt. Richmond, CA 94801

## **California Section Executive Committee**

### **President**

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### **Vice President - Northern California**

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### **Vice President - Southern California**

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### **Secretary/Treasurer**

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### **AIPG UC Davis Student Section:**

Rob Zierenberg, Professor Advisor, UC Davis; [razierenberg@ucdavis.edu](mailto:razierenberg@ucdavis.edu)

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### **UC Davis Student Officers**

Christopher Holt, Student President; [cdholt@ucdavis.edu](mailto:cdholt@ucdavis.edu)

Michaela Gnos, Vice President

Vicky Manthos, Treasurer

Mark Markowicz, Events Coordinator

Taylor Davis, Fundraising Officer

### **Student Mentors**

Steve Baker, Student Mentor

Rob Campbell, Student Mentor

Rob Sydnor, Student Mentor

James A. Jacobs, Sponsor