

Hello Bay Area geophysicists. We are entering into a busy time of the year regarding BAGS events, and I wanted to make you all aware of what will be happening near future. First of all, at 5pm on Monday March 16, BAGS and the UC Berkeley SEG Student Society are happy to welcome Ken Witherly of Condor Consulting to give a talk. The location of the meeting will be Room 120 of Latimer Hall on the UC Berkeley Campus, and the title of Ken's seminar is '*Building effective mineral system models; the importance of merging geophysical observation with geological inference*'. An abstract is included below, and a more thorough description can be found on the BAGS Upcoming Events page at <http://bayareageophysicalsociety.org/index.php/events/>. On April 13 and 14<sup>th</sup>, BAGS will be co-hosting the SEG's Spring Distinguished Lecturer, Jean Virieux, with the Cal SEG Student Society and Stanford SEG Student Society, respectively. More info about this presentation, and the SEG Distinguished lecturer can again be found on the BAGS events page.

In addition to these talks, there are two 'local' symposia coming up. On May 16<sup>th</sup> the Geological Society of Nevada and Elko Geophysical Group are hosting the 2<sup>nd</sup> Biennial Great Basin and Western Cordillera Mining Geophysics Symposium at the Nugget in Reno, Nevada. And on June 16-June 19, Stanford will be hosting an Engineering Mechanics Institute Conference focused on Fluid Flow and Geophysical Monitoring. For more information about these courses, please see the BAGS upcoming events page listed above.

Last, I want to again remind you of dues, and our online registration and payment capability. If you have been meaning to become a BAGS member but haven't taken the time to sit down and register, now is a perfect chance to do so. On the other hand, if last year you did register and pay yearly dues, but you did so prior to September 1, 2014, it is now time to renew you yearly membership. Obviously the latter does not apply to life members! Last, if you would like to donate to BAGS or become a corporate sponsor, you can do so via the PayPal link on our Sponsors web page (<http://bayareageophysicalsociety.org/index.php/about/sponsors/> ). Again, it is through people joining BAGS and participating that we can build and maintain a vibrant geophysical community in the Bay Area.

And with that, I hope to see you at one of the upcoming talks.

Best Regards,

David

## **Building effective mineral system models; the importance of merging geophysical observation with geological inference**

By Ken Witherly, Condo Consulting, Lakewood, CO.

**Abstract**

The minerals system approach is based on concepts that have been largely germinating for the past 20 years but are now becoming a major component of efforts to rejuvenate minerals exploration into the next decade. Geophysical mapping will take on a far more critical role in this effort as it offers very often the most cost effective means to explore the subsurface, especially when the overlying rocks are unrelated to the targets at depth. This review will examine what might be called the 'state-of-play' in how geophysics is currently being used to start to build an understanding of what mineral systems look like in the real world. While much remains to be done, there is encouragement in what has been achieved to date, although most of it typically without the benefit that the overarching concept of developing a mineral system model.