



Richard A. Krahenbuhl

Research Assistant Professor
Gravity & Magnetism Specialist

Teaching

- Gravity & Magnetism Methods
- Summer Field
- Senior Design

Research Groups

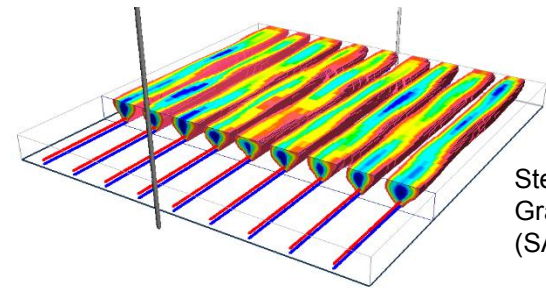
- Center for Gravity, Electrical & Magnetic Studies (CGEM)
- Gravity & Magnetism Research Consortium (GMRC)

Interests

- Petroleum & mineral exploration
- Reservoir monitoring
- Integrated inversion / interpretation
- Time-lapse gravity
- Borehole gravity
- SAGD monitoring development
- New technology application
- Parametric inversion
- Global & hybrid optimization
- CO2 sequestration
- Archaeological geophysics
- Teaching

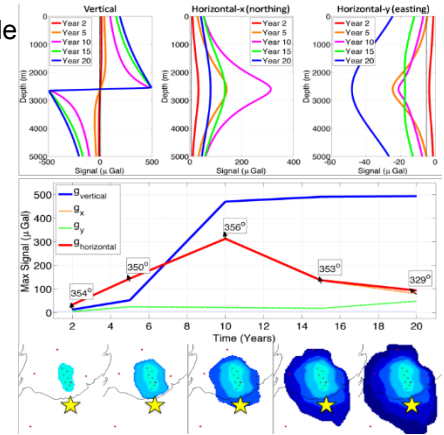
Publications, Presentations & Conference Proceedings

- Krahenbuhl, R., A. Reitz, H. Rim, and Y. Li, 2014: Improved recovery of fluid movement through time-lapse borehole vector gravity. 84th Ann.Internat. Mtg, Soc. Expl. Geophys., Expanded Abstracts
- Foks, N., R. Krahenbuhl, and Y. Li, 2014: Adaptive sampling of potential-field data: A direct approach to compressive inversion. Geophysics, 79, IM1-IM9.
- Krahenbuhl, R.A., and Y. Li, 2014: Reservoir monitoring by integration of gravity, seismic and reservoir property data. SEG Development & Production Forum (D & P Forum), Reservoir Characterization & Monitoring with Advanced Geophysical Technology. Santa Rosa, CA

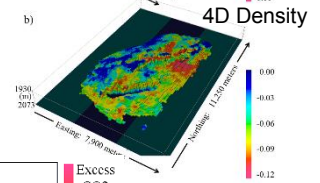
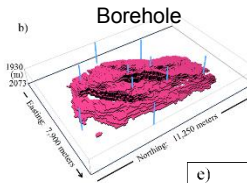
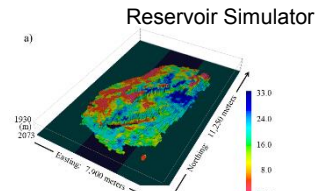
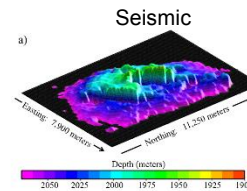


Steam Assisted Gravity Drainage (SAGD)

Time-lapse borehole vector gravity



Sample Projects



Gravity Inversion



CO2 sequestration integrated monitoring

