

## **DIRK BARON**

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### **PROFESSIONAL EXPERIENCE**

Chair, Department of Physics and Geology (2007 – present)  
California State University Bakersfield, Bakersfield, California

Professor of Geology (2005-present)  
California State University Bakersfield, Bakersfield, California.

Associate Professor of Geology (2001-2005)  
California State University Bakersfield, Bakersfield, California.

Assistant Professor of Geology (1997-2001)  
California State University Bakersfield, Bakersfield, California.

Project Hydrogeologist (1989-1991)  
Squier Associates, Lake Oswego, Oregon.

Hydrogeologist (1988-1989)  
U.S. Army Corps of Engineers, Portland District, Portland, Oregon.

### **EDUCATION**

Postdoctoral Scholar in Environmental Engineering Science, California Institute of Technology,  
Pasadena, California; 1996-1997

Ph.D. in Environmental Science and Engineering, Oregon Graduate Institute of Science &  
Technology (now: Oregon Health & Science University), Portland, Oregon; 1996.  
Dissertation: *Iron-chromate precipitates in a Cr(VI)-contaminated soils: Identification,  
solubility, and solid solution/aqueous solution interactions.*

M.S. in Geology, Portland State University, Portland, Oregon; 1990.  
Thesis: *Analysis and numerical simulation of the groundwater system at the Bonneville  
Navigation Lock site, Oregon.*

Vordiplom in Geology, Freie Universität Berlin, Berlin, Germany; 1986.

### **PROFESSIONAL REGISTRATION**

California Registered Professional Geologist; License No. 7962

## SELECTED PUBLICATIONS

- Baron D., Negrini R.M, Golob E.M., Miller D., Sarna-Wojcicki A, Fleck R., Hacker B., Erendi A. (2008) Geochemical correlation and  $^{40}\text{Ar}/^{39}\text{Ar}$  dating of the Kern River Ash and related tephra: Implications for the stratigraphy of petroleum-bearing formations in the San Joaquin Valley, California. *Quaternary International*, **178**, 246-260. ([pdf](#))
- Negrini R., Baron D., Gillespie J., Horton R., Draucker A., Durham N., Huff J., Philley P., Register C., Parker J., and Haslebacher T. (2008) A middle-Pleistocene lacustrine delta in the Kern River depositional system: structural control, regional stratigraphic context, and impact on groundwater quality. Pacific Section of the American Association of Petroleum Geologists Publication MP48, 95-111. ([pdf](#))
- Drouet C., Pass K.L., Baron D., Draucker S., and Navrotsky A. (2004) On the thermochemistry of solid solutions between jarosite, natrojarosite, and alunite. *Geochimica et Cosmochimica Acta*, **58**, 2197-2205. ([pdf](#))
- Drouet C., Navrotsky A., and Baron D. (2003) On the thermochemistry of solid solutions between jarosite and its chromate analog. *American Mineralogist*, **88**, 1949-1954. ([pdf](#))
- Baron D. and Palmer C.D. (2002) Solid solution/aqueous solution interactions between jarosite and its chromate analog. *Geochimica et Cosmochimica Acta*, **66**, 2841-2853. ([pdf](#))
- Baron D. and Hering J.G. (1998) Analysis of metal-EDTA complexes by Electrospray Mass Spectrometry. *Journal of Environmental Quality* **27**, 844-850.
- Baron D. and Palmer C.D. (1998) Solubility of  $\text{KFe}(\text{CrO}_4)_2 \cdot 2\text{H}_2\text{O}$  at 4-75°C. *Applied Geochemistry* **13**, 961-973. ([pdf](#))
- Baron D. and Palmer C.D. (1996) Solubility of  $\text{KFe}_3(\text{CrO}_4)_2(\text{OH})_6$  at 4-35°C. *Geochimica et Cosmochimica Acta* **60**, 3815-3824. ([pdf](#))
- Baron D., Palmer C.D. and Stanley J.T. (1996) Identification of two Fe-chromate precipitates in a Cr(VI)-contaminated soil. *Environmental Science & Technology* **30**, 964-968. ([pdf](#))
- Baron D. and Palmer C.D. (1996) Solubility of jarosite at 4-35°C. *Geochimica et Cosmochimica Acta* **60**, 185-195. ([pdf](#))
- Baron D., Scofield D.H., Johnson A.G., Malin R.D., and Graham J.D. (1991) Three-dimensional modeling of groundwater flow and temperatures at Bonneville Dam, Oregon. *Proceedings, 1991 Geotechnical Engineering Congress*, American Society of Civil Engineers, 1186-1197.