

## Paul Giesting, Ph.D., Indiana LPG #2307

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Based: Rushville, IN 46173

### Consulting and Technical Geologist

- Environmental delineation, remediation, and monitoring
- Experienced on both consulting and regulatory sides
- Work well in collaborative as well as individually driven projects
- Specialized in forming accurate pictures of complex contaminated systems
- Expertise in written and audible communication pitched to the target audience, from two-page memos, to public availability sessions, to formal reports to US EPA or state agencies, to peer-reviewed journal articles
- “Numerate as well as literate” - Julie Morris, Washington University in St. Louis

### Environmental and Consulting Geology Experience

Consulting Geologist, PAG Geology LLC

*Central Indiana and O’ahu, Hawai’i*

2011 to present

- Closed contaminated sites at the Ala Wai Small Boat Harbor, Waikiki
  - Delineation and cleanup of historic diesel contamination at fuel dock, assessment and NFA for repair facility
- Investigation and risk assessment to reach closure for former industrial property in Honolulu
- Provided technical assistance for residential property owners affected by soil creep
  - Analysis of issues for property owner near Waiomao slide formed basis for settlement from city

Geologist 2, Indiana Department of Environmental Management

*Indianapolis*

2006 to 2009

- Staff geologist for a variety of high profile sites, including Continental Steel Superfund Site and Meridian Road Landfill
- Provided geological assessment for the Site Investigations scoring report to US EPA resulting in listing of Lusher Street Groundwater Contamination Superfund Site to NPL
- Evaluated reports and provided critical technical feedback to IDEM project managers for
  - Adequacy of contaminant delineation and risk assessments
  - Geological, hydrological, and geochemical feasibility of remedial actions for chlorinated and petroleum contaminants

### Teaching and Research Experience

Visiting Faculty: University of Tennessee, Illinois State University, Southern Illinois University 2012 to 2017

- Taught mineralogy, economic geology, introductory geology, igneous & met. petrology, planetary science

Postdoctoral Research Associate: Southern Illinois University, University of Illinois-Chicago 2009 to 2013

- Southern Illinois: role of chlorine and hydrogen in the igneous, shock, weathering history of Martian meteorites
- UIC: interaction of swelling clays and (near-)supercritical CO<sub>2</sub> at carbon sequestration temperatures and pressures
- Twelve peer-reviewed articles and approximately 12 presentations at international conferences (GSA, AGU, Goldschmidt...)

### Education

Ph.D.: University of Notre Dame, 2006 (Geological Sciences, Arthur J. Schmitt Fellow)

- Chemical and crystallographic investigation of uranyl-organic complexes for nuclear waste disposal
- Coursework: environmental mineralogy, geochemistry, thermodynamics, mineral surface structure and chemistry

A.M.: Washington University in St. Louis, 2002 (Earth & Planetary Science)

- Infrared spectroscopy and thermal conductivity of garnets
- Coursework: mathematical methods in physics, electricity & magnetism, North American geology

B.A.: Washington University in St. Louis, 2001 (Earth & Planetary Science / Classics, Sigma Xi & Phi Beta Kappa)

- Coursework: advanced calculus & differential eq., finite math, quantum physics, physical chemistry
- Graduated with honors and summa cum laude, Ernest L. Ohle Award for most promising geology undergraduate