

Summary

14 years Geophysical experience.

Education

M.S., Geophysical Engineering. University of Arizona. Tucson, Arizona.

B.S., Geophysics. University of New York at Geneseo. Geneseo, New York.

Experience

2001 – Present. Senior Geophysical Project Manager. hydroGEOPHYSICS, Inc. Tucson, Arizona.

Services and responsibilities include:

- Multiple simultaneous project management while maintaining work schedule completion
 - Managing projects worth \$1,000,000 in revenue annually.
- 7 plus years project management experience:
 - Survey design
 - Data processing and interpretation
 - Report preparations
- Excels at developing long-term client relationships, by managing communication, workflow planning, and timely project delivery.
- High level knowledge base of the primary geophysical techniques including electrical, magnetic, gravity and seismic methods.
- Senior expertise in Basin and Range groundwater characterization (gravity method) with technical review from state regulators.
- International project management (several) from the proposal stage to delivery.
- Employee development through in-house training seminars and on the job training for staff level geophysicists.

2000. Internship. ExxonMobil Exploration Company. Geophysical Applications Group (GAPPS).

Built regional Velocity Model used for depth conversion of two-dimensional post-stack time migrated data for the Lower Congo Basin in West Africa, establishing methodologies and precedents for the remaining sub-areas to be completed.

1998 – 2000. **Research Assistant.** United States Geological Survey (USGS).

Thesis was funded by USGS to examine the relationship of faults in basin sediments to the gravity and magnetic expression of their underlying fault systems in the Santa Rita Mountains. Responsible for:

- Survey design
- Acquisition
- Reduction and interpretation of gravity and magnetic data.

1998 (Summer). **Internship.** Mobil Oil Company.

Improved the quality of several speculative seismic surveys through zero-phase correction of seismic data.

1997 – 1998. **Research Assistant.** University of Arizona.

Responsible for the acquisition and interpretation of Electrical Resistance Tomography and EM-39 data to resolve the accuracy of geophysical methods in monitoring the infiltration of saline water at a test site in Maricopa, Arizona.

Patents

Significant contributions to the underlying formulas used in the patent to estimate leakage rates using voltage measurements:

United States Patent 7141982 - Estimation of leakage rates using voltage measurements.

Publications

Barrett, D.B., Gee, G.W., Sweeney M.D., Johnson M.D., Medina V.F., Mendoza, D.P., Fritz B.G., Khan F., Daily W.D., Fink, J.F., Ramirez A., **Baldyga C.A.**, Levitt M.T., Binley A. February, 2003. Results of Performance Evaluation Testing of Electrical Leak-Detection Methods at the Hanford Site Mock Tank - FY 2003-2003. U.S. Department of Energy under contract DE-AC06-76RL01830

Baldyga, C.A., 2002. Relationships of Faults in Basin Sediments to the Gravity and Magnetic Expression of their Underlying Fault Systems. U.S. Geological Survey Open-File Report 01-502.

Conference Proceedings

Rucker, D.F., J.B. Fink, M.T. Levitt, D.R. Glaser II, Baldyga, C.A. 2005. Estimating dipping angle with cross-borehole radar: No tomography required. SAGEEP 2005, Annual meeting of the Environmental and Engineering Geophysical Society, Atlanta, Georgia, April 14-17, 2005.

D.R. Glaser II, Rucker, D.F., J.B. Fink, M.T. Levitt, Baldyga, C.A., 2005. A Comprehensive Geophysical Case Study At A Former Radioactive Waste Disposal Site In The Columbia River Valley, Southeastern Washington. SAGEEP 2005, Annual meeting of the Environmental and Engineering Geophysical Society, Atlanta, Georgia, April 14-17, 2005.

Rucker, D.F., J.B. Fink, M.T. Levitt, D.R. Glaser II, Baldyga, C.A. 2005. High Resolution Resistivity (HRR) Delineation Of A Liquid Waste Plume At A Former Radioactive Waste Disposal Site, Hanford, Washington. Waste Management 2005, Tucson, Arizona. Paper No. 5324. February.

Baldyga, C.A., & Fink, J. B., 2004, RPM - Residual Potential Mapping; A New Approach to Mise-a-la-Masse, SAGEEP, Colorado Spring, Colorado, February 24-26.

Affiliations

National Ground Water Association

Arizona Hydrological Society

Society of Exploration Geophysicists

Certifications

MSHA certified

OSHA certified (29CFR 1910.120) Hazardous Materials Awareness

OSHA certified (29CFR 1910.1200) Hazard Communications (Department of Labor)

CPR and First-Aid

Wilderness First Responder (WFR) Certification