



Subsurface Site Characterization
Leak Detection & Monitoring
Resource Exploration

CHRISTOPHER A. BALDYGA

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EDUCATION

MASTER OF SCIENCE IN GEOPHYSICAL ENGINEERING

University of Arizona

Tucson, AZ

BACHELOR OF SCIENCE IN GEOPHYSICS

University of New York at Geneseo

Geneseo, NY

EXPERIENCE

hydroGEOPHYSICS, Inc., Tucson, Arizona

June, 2001 – Present

SENIOR PROJECT MANAGER, PRINCIPAL

- Routinely manages multiple projects simultaneously while maintaining outstanding work schedule completion, high profit margin generating \$200,000 annual revenue.
- 5 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.
- Has demonstrated a 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.
- Successfully managed several international projects from the proposal stage to the delivery of the final report.
- Provides employee development through in-house training seminars and on the job training for staff level geophysicists.

ExxonMobil Exploration Company

July, 2000 to December, 2000

Within an extended internship in the Geophysical Applications Group (GAPPS) built the regional Velocity Model used for depth conversion of 2D 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.

United States Geological Survey

July, 1998 to May, 2000

As a Research Assistant, 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.

Mobil Oil Company

Summer 1998

Within a summer internship position improved the quality of several speculative seismic surveys through zero-phase correction of seismic data.

University of Arizona

November, 1997 to March, 1998

As a Research Assistant was responsible for 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, AZ.

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, GA, 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, GA, 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, AZ. 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, CO, Feb. 24-26.

PROFESSIONAL AFFILIATIONS

National Ground Water Association
Arizona Hydrological Society
Society of Exploration Geophysicists

PROFESSIONAL CERTIFICATIONS

MSHA certified

OSHA certified (29CFR 1910.120) Hazardous Materials Awareness

OSHA certified (29CFR 1910.1200) Hazard Communications (Dept. of Labor)

CPR and First-Aid

Wilderness First Responder (WFR) Certification