**JEFF JOHNSTON**
2215 Curtis St., Berkeley, CA 94702

## EDUCATION

Foothill Junior College
**Lower division class work in geology and physics** **1969-1972**

Humboldt State University
**B.A. Geology**
**B.S Physics** **1972-1977**
Thesis: "An Air-turbine Spinner Magnetometer"
This thesis work involved the design and construction of a magnetometer capable of measuring the natural remanent magnetization of igneous rock samples.

University of Salt Lake City
**M.S Geophysics** **1986-1992**
Thesis: "Magnetotelluric Transect of the Sevier Overthrust Belt in Southwestern Utah and Eastern Nevada"
This thesis work involved the collection of magnetotelluric data along a line of measurement sites spanning approximately 170 Km and the interpretation of this data to reveal the geoelectric structure of the subsurface to a depth of approximately 60 Km.

## WORK EXPERIENCE

Humboldt State University, Dept. of Geology
**Assistant Curator** **1973-1975**
Maintenance of Department's mineral and fossil collections and preparation of these materials for use in laboratory classes

Technekron Energy Resource Analysts
**Seismic technician** **1975-1977**
Installed and maintained microseismic sensor stations and serviced a multi-channel data recorded for this station array. The goal of this project was to increase the understanding of seismicity near P G & E's Humboldt Bay Nuclear Powerplant

Woodward-Clyde Consultants **1977-1986**
**paleomagnetist / Electrical methods Crew-chief**
Conducted sample collection for paleomagnetic analysis, performed measurements to obtain the natural remanent magnetization of these samples and analyzed these results for the purpose of structural research and geologic age-dating. Crew chief for magnetotelluric and Time-domain EM surveys and data interpretation.

Independent consultant **1992-1997**
**MT data collection, training, and interpretation**
Worked domestically and overseas on academic and commercial MT surveys, training field technicians, acquiring survey data, interpreting survey data, and developing specialized software.

Senior Geophysicist, V.P. of Magnetometer Business **1997-2016**
**Geometrics, Inc.**
Involved in system development of a controlled-source audio magneto-telluric system and a novel capacitively coupled resistivity system. Both of these systems are unique and have been technically and commercially successful products. As V.P. was responsible for marketing, sales and training customers on the use of portable, airborne and marine magnetometers and related software for mineral, engineering and archaeological surveying.

## PUBLICATIONS AND PAPERS

Johnston, J. M., and Wannamaker, P. E., 1990, Magnetotelluric transect of the Sevier overthrust belt in southwestern Utah and eastern Nevada, *in* M. L. Allison, Ed., Energy and mineral resources of Utah:

Wannamaker, P. E., J. M. Johnston, J. R. Booker and J. A. Stodt, 1997a, Anatomy of the Southern Cordilleran Hingeline, Utah and Nevada, from deep resistivity profiling: Geophysics, 62, 1069- 1086.

Wannamaker, P. E., W. M. Doerner, J. A. Stodt, and J. M. Johnston, 1997b, Subdued state of tectonism of the Great Basin interior relative to its eastern margin based on deep resistivity structure: Earth Planet. Sci. Lett., 150, 41-53.

Wannamaker, P. E., D. P. Hasterok, J. M. Johnston, J. A. Stodt, D. B. Hall, T. L. Sodergren, L. Pellerin, V. Maris, W. M. Doerner, and M. J. Unsworth, Lithospheric dismemberment and magmatic processes of the Great Basin-Colorado Plateau transition, Utah, implied from magnetotellurics: Geochemistry, Geophysics, Geosystems, 9, Q05019, doi:10.1029/ 2007GC001886, 2008.

MEMBERSHIPS

American Geophysical Union
Society of Exploration Geophysicists
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