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LANGUAGES
Some French

Phil Wannamaker

PROFESSIONAL RESEARCH INTERESTS AND EXPERTISE –

- Electromagnetic theory and practice
- numerical modeling
- inverse theory
- relation of resistivity structure to physiochemical conditions of the Earth
- global tectonism
- geothermal systems
- ore deposits

PROFESSIONAL EXPERIENCE –

- Western United States
- Southern Appalachians
- New Zealand
- Antarctica

EDUCATION –

- 1976 B.Sc. in Engineering Geology, Queen's University, Kingston
- 1983 Ph.D. in Electromagnetic Geophysics, University of Utah, Salt Lake City

MEMBERSHIPS –

- AGU
- SEG

- GRC
- ASEG
- GSA

HONORS AND AWARDS –

- Trustee and Treasurer, Gerald W. Hohmann Memorial Trust for Teaching and Research in Applied Electrical Methods.
- Green Foundation Fellow, Scripps Institution of Oceanography, San Diego, CA.
- Outstanding Ph.D. Research Award, Dept. of Geology and Geophysics, University of Utah.

PUBLICATIONS –

- **Wannamaker, P. E.**, W. M. Doerner, D. P. Hasterok, 2006, Cryptic faulting and multi-scale geothermal fluid connections in the Dixie Valley-Central Nevada Seismic belt area; implications from MT resistivity surveying, Proceedings 31st Workshop on Geothermal Reservoir Engineering, Stanford University, Stanford, CA, SGP-TR-179, 8 pp.
- **Wannamaker, P. E.**, 2005, Anisotropy versus heterogeneity in continental solid earth electromagnetic studies: fundamental response characteristics and implications for physicochemical state, invited review paper, Surveys in Geophysics, 26, 733-765
- **Wannamaker, P. E.**, J. A. Stodt, L. Pellerin, S. L. Olsen, and D. B. Hall, Structure and thermal regime beneath South Pole region, East Antarctica, from magnetotelluric measurements, Geophysical Journal International, 157, 36-54, 2004.
- **Wannamaker, P. E.**, 2003, Initial Results of Magnetotelluric Array Surveying at the Dixie Valley Geothermal Area, with Implications for Structural Controls and Hydrothermal Alteration, Geothermal Resources Council Transactions, 27, 37-41.
- **Wannamaker, P. E.**, G. R. Jiracek, J. A. Stodt, T. G. Caldwell, A. D. Porter, V. M. Gonzalez, and J. D. McKnight, 2002, Fluid generation and movement beneath an active compressional orogen, the New Zealand Southern Alps, inferred from magnetotelluric (MT) data, Journal of Geophysical Research, 107(B6), ETG 6 1-22.