

**David H. von Seggern**

**EDUCATION:**

- Ph.D. Geophysics**     *Seismology Program, Pennsylvania State U., State College PA  
1982*
- M.S. Geophysics**     *Geophysics, U. Hawaii, Honolulu HI 1968*
- B.S. Geophysics**     *St. Louis U., St. Louis MO 1966*

**EMPLOYMENT:**

- November 1992 - September 2005: Seismic Network Manager, Nevada  
Seismological Laboratory, U. Nevada, Reno NV*
- August 1982 – November 1992: Research Geophysicist, Phillips Petroleum Co,  
Bartlesville OK*
- November 1967 – August 1982: Seismologist, Teledyne Geotech, Alexandria VA*

At Teledyne Geotech, I was employed as a seismic analyst and as a research seismologist in the field of underground nuclear test detection and discrimination. At Phillips, I worked in 3-D seismic imaging and in computer program development to support exploration efforts for oil and gas deposits. I was involved there with state-of-the-art Kirchhoff imaging on Cray computers. I became associated with the NSL at U. Nevada, Reno in late 1992 and held the position of Seismic Network Manager for the NSL seismic studies at Yucca Mountain, Nevada, the designated repository of high-level nuclear waste. As manager I oversaw the operational aspects of the seismic monitoring, handled the administrative aspects of the DOE contract, and reported on seismic observations relevant to the Yucca Mountain site characterization. I now hold an emeritus position in the NSL.

**SAMPLE OF PUBLICATIONS:**

- Von Seggern, D., and R. Blandford, Source time functions and spectra for underground nuclear explosions, *Geophys. J.*, **31**, 83-97, 1972.
- Von Seggern, D. H., A random stress model for seismicity statistics and earthquake prediction, *Geophys. Res. Letters*, **7**, 637-640, 1980.
- Von Seggern, D., Depth imaging resolution of 3-D seismic recording patterns, *Geophysics*, **59**, 564-576, 1994.
- Von Seggern, D. H., Seismic background noise and detection threshold in the Southern Great Basin Digital Seismic Network, *Bull. Seism. Soc. Am.*, **94**, 2280-2298, 2004.
- Von Seggern, D. H., *CRC Standard Curves and Surfaces, 2nd Edition, Chapman & Hall/CRC*, 2007.
- Von Seggern, D. H., K. D. Smith, and L. A. Preston, Seismic Spatial-Temporal Character and Effects of a Deep (25–30 km) Magma Intrusion below North Lake Tahoe, California–Nevada, *Bull. Seism. Soc. Am.*, **98**, 1508-1526, 2008.