

# John C. Lahr Biographical Sketch

EDUCATION: B.Sc. (1966) Rensselaer Polytechnic Institute, Troy, New York, USA  
Ph.D. (1975) in Seismology, Columbia University, New York, New York, USA.

## POSITIONS HELD:

Research Geophysicist, U.S. Geological Survey, stationed in: Menlo Park, California, 1971-1993,  
Fairbanks, Alaska, 1993-1997, and Golden, Colorado, 1997-2003.

## SEISMOLOGICAL CONTRIBUTIONS:

- (1) I helped to establish a reliable and successful seismograph network in southern Alaska. This network provided a unique opportunity to investigate subduction-zone processes.
- (2) I participated in a team effort to study the 1989-1990 eruptions of Redoubt Volcano, Alaska.
- (3) After the 1989 Loma Prieta, CA, earthquake, I recognized the need for seismic hazard information to reach the public and have published hands-on seismology demonstrations for K-12 level education.
- (4) I helped develop and upgrade the computer program, HYPOELLIPSE, for locating shallow and intermediate-depth earthquakes recorded by a sparse regional seismograph network, as in southern Alaska.

## SELECTED PUBLICATIONS:

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- Kissling, Eduard, and Lahr, J.C., (1991). Tomographic image of the Pacific slab under southern Alaska, *Eclogae geol. Helv.*, v. 84, p. 297-315.
- Lahr, J.C. and Fischer, F.G., (1993). Location of acoustic sources using seismological techniques and software, U.S. Geological Survey Open-file Report 93-221, 9 pp. [[http://pubs.er.usgs.gov/djvu/OFR/1993/ofr\\_93\\_221.djvu](http://pubs.er.usgs.gov/djvu/OFR/1993/ofr_93_221.djvu)].
- Lahr, J.C., Chouet, B.A., Stephens, C.D., Power, J.A., and Page, R.A., (1994). Earthquake classification, location, and error analysis in a volcanic environment: Implications for the magmatic system of the 1989-1990 eruptions at Redoubt Volcano, Alaska, *J. Volcan. Geotherm. Res.*, v. 62, p. 137-151.
- Lahr, J.C., (1998). Table-top earthquakes: a demonstration of seismology for teachers and students that can be used to augment lessons in earth science, physics, math, social studies, and geography, U.S. Geological Survey Open-file Report 98-767, 13 pp [<http://pubs.usgs.gov/of/1998/ofr-98-0767/>].
- Lahr, J.C., (1999). HYPOELLIPSE: A computer program for determining local earthquake hypocentral parameters, magnitude, and first-motion pattern, (Y2K Compliant Version), U.S. Geological Survey Open-file Report 99-23, 112 pp. [<http://pubs.usgs.gov/of/1999/ofr-99-0023/>].