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**To Mining Engineers, Geologists, Managers, Superintendents, Miners &
Prospectors Feb 1st, 1909**

**To Mining Engineers, Geologists, Managers, Superintendents,
Miners, and Prospectors:**

In many mines the vein or lode lies in a fault fissure and the walls of the fissure are slickensided showing a smooth or polished surface with striations, grooves or fluting. The California earthquake of 1906 was due to a fault movement, which has raised the question of the prevailing direction of fault movements in general. To get information bearing on this question I desire to assemble observations on the orientation of slickenside striations. To make these observations in your mine, note the strike and dip of the wall upon which the striations appear, measuring the dip from the horizontal, and observe the angle of inclination of the striations in the plane of the wall, noting which way they are inclined. In some cases the slickensides occur on slips within the vein rather than on the walls of the fissure. These may be also more than one system of striations. Mining men can greatly aid me in this investigation and any information will be greatly appreciated.

Andrew C. Lawson
Chairman State Earthquake Investigation Commission.
University of California
Berkeley, Cal.
Feb. 1st, 1909.