

# **TIME CORRELATIONS BETWEEN BUILDING CRACKS AND BLASTING**

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## ABSTRACT

In this paper, the author points out the need to beware of simple time correlations as proof of cause and effect when comparing building cracks and blasting operations. There is a need to be aware of the many other causes besides blasting which affect buildings. Some of these have histories of cyclic behavior; others have a long-term increasing effect on aging and deterioration, often with poorly defined time histories. Many are so strongly site specific that generic relationships are difficult to quantify.

The author describes a case history of undisputed time correlation between extensive building damage and blasting operations in which it was clear that blasting was not the cause of the damage. Also discussed are other histories of building behavior. The author makes a hypothetical comparison to the probability of determining that external vibration sources could be the cause of the changes in a building.