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Comment

# ***Interactive comment on “Seismic and mechanical studies of the artificially triggered rockfall at the Mount Néron (French Alps, December 2011)” by P. Bottelin et al.***

## **Anonymous Referee #1**

Received and published: 7 March 2014

### General comments

The manuscript is a very broad presentation about investigations mainly connected to an artificially triggered rockfall event. In some parts it would be helpful to tighten the text to a certain extent to make it more readable. The English language possibly could be improved by a native English speaker.

### Specific comments

The introduction includes the results of a very detailed and well-structured literature research and is very helpful to become acquainted with the topic. Starting with the site

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description (chapter 2) a lot of technical details are presented regarding different investigation methods and tools. Seismic methods are in the main focus of the whole work, complemented by image and LiDAR data analysis. The presentation also includes the results of a numerical rockfall propagation modeling where main parameters from the investigations could be used to calibrate the model.

Technical corrections 1509/9: "granular" instead of "ganular" 1511/10-21: giving these almost identical details twice does not really make sense 1516/16: "is slightly larger" instead of "is a slightly larger" 1516/17: "similar" instead of "close" 1517/2-3: on page 1508/7 this citation says: "tenths of Hz to dozens of Hz" (which makes sense). Here you write: "tens of Hz to dozens of Hz" (which does not make sense as it is more or less the same) 1525/27: "drop" instead of "dropped" 1544/Fig.3/2: "shows" instead of "show" 1553/Fig.11/3: "the action of the rock block own weight are shown in blue" ? 1556/Fig.14/3: "dark grey and light gray" : same spelling of "grey" should be used

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Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 2, 1505, 2014.

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