

## A project to utilize Abuyama observatory as a science museum

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### 1. Introduction

Abuyama observatory is a seismological observatory of Disaster Prevention Research Institute (DPRI), Kyoto University, which is located in the city of Takatsuki, Osaka. Various observations have been conducted at this observatory since 1930. It is continuing observation as a base station for the project of the dense seismic observation of the next generation which is called MANTEN project mainly promoted by DPRI. Some of the historic equipments for the seismological observations such as the Wiechert seismograph and the Galitzin seismograph have been well maintained and exhibited. Since the history of the observations and experiences of the Abuyama observatory are very important, a project to utilize Abuyama observatory as a science museum started in 2011.

### 2. Abuyama Open Lab

The first problem for utilizing the observatory as a science museum is that the observatory has not been performing the exploitation campaign, because it is the place where we usually do observation and research, and that it is not ready for welcoming a lot of visitors. In order to solve these problems, a series of Abuyama Open Lab has been decided to be held as the first step of the project, and the maintenance of this observatory and publicity activities have been done. Moreover, a seminar on the history of seismology, lesson lecture on making a simple seismograph and various workshops that produce the contents of the museum have been developed.

In total, 4 open labs were held and about 500 visitors joined in the series of Open Lab in the 2011 fiscal year.

### 3. Study Tour

Biweekly study tour at the Abuyama observatory is also provided. Unlike the series of Open Lab, the exploitation campaign for this study tour has not been carried out except for the website. However, if the observatory will be operated as a museum, visitors should be always welcome. But now, since there are few staff members, it is difficult to open every day.

### 4. Future work

In order to open the observatory to the public at any time, the staff members who can do guidance at the observatory are needed. However, since technical knowledge is required, currently not all the members can always be guides explaining the seismographs. Therefore, it is necessary to make a manual that allows even volunteers to be a guide of the observatory. And it is also necessary to make the direction boards of showpieces.

Furthermore, we would like to develop the observatory as a museum where people can learn from and participate in the latest research projects. We aim at developing the science museum that keeps following the latest research activities.

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