

(For JSPS Fellow)

Form B-5

Date (日付)

27/02/2015 (Date/Month/Year: 日/月/年)

Activity Report -Science Dialogue Program-
(サイエンス・ダイアログ事業 実施報告書)

- Fellow's name (講師氏名): Daniel Pastor-Galán (ID No. P16329)
- Participating school (学校名): Aomori Prefectural Hirosaki Minami High School
- Date (実施日時): 16/02/2017 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): How the Earth Works
- Name and title of your company (同行者 職・氏名)
I went alone
- Lecture format (講演形式):
 - ◆Lecture time (講演時間) 60min (分), Q&A time (質疑応答時間) 20min (分)
 - ◆Lecture style(ex.: used projector, conducted experiments)
(講演方法 (例: プロジェクター使用による講演、実験・実習の有無など))
Projector + Small workshop on Plate Tectonics

- Lecture summary (講演概要): Please summary your lecture 200-500 words.

The Earth is a dynamic planet, from the atmosphere to the inner core everything is in constant movement. One of the most astonishing movements in the Earth is the continental drift, described by the unifying theory of Plate Tectonics, which is the equivalent to Earth Sciences to the Evolution theory is to Biological Sciences. Plate Tectonics describes the lithosphere, Earth's solid outer shell, as rigid plates that interact along discrete divergent, transform, or convergent boundaries. Although elegant at a global scale, plate margins, particularly at convergent boundaries, do not behave rigidly and instead undergo major extension and/or shortening. The resulting basins and orogens host to the bulk of our economic hydrocarbon and ore reserves and are commonly characterized by significant natural hazards including earthquakes and volcanism.

During the activity, I shared the mysteries of Plate Tectonics to the students of Fukushima High School. I explained the general ideas of Plate Tectonic theory first. Later I focused in the main arguments in support of Plate Tectonics to end, finally, with a brief description of my contribution to the understanding of Plate Tectonics. During the lecture I also talked about the differences and similarities between Japan and Spain from the point of view of Natural Sciences, and how living in Japan has been a great, constructive experience that make me grow as a person.

The students engaged very well, and perform a lot of questions, which I appreciate a lot. In addition, the Natural Sciences teacher prepared them for the lecture, all of them had a basic knowledge of the topic. They were active and not shy, they asked when they did not understand and I used my Japanese skills to help them when I felt they were losing the train of thought.

- Overall advice or comments to future participants in the program (今後の講師へのアドバイス):

I have participated twice in this program and the only comment I have is, please participate. It is a fantastic experience for the students but also for the researchers. It is true, you'll have to dedicate several days to prepare your lecture, but the effort is worth. Moreover, the preparation gives you the opportunity to understand how to explain complex research topics to lay public. It is a win-win.

- Other noteworthy information (その他特筆すべき事項):

Everything went perfectly.

- Impressions and opinions from a company (同行者の方から、本事業に対する意見・感想等がありましたら、お願いいたします。) I went alone