

(For JSPS Fellow)

Form B-5

Date (日付)

16/07/2016 (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): Christopher Vavricka (ID No. P14392)
- Participating school (学校名): Tokushima Jonan High School
- Date (実施日時): 06/22/2016 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): (in English) Science for Everyone
(in Japanese) みんなの科学
- Lecture summary (講演概要): Please summary your lecture 200-500 words.

This lecture was similar to my lecture last year at Tondabayashi High School. I first introduced myself and talked about how I ended up studying psychology and then changing to biochemistry. Next I talked about how I ended up in as a researcher in China and now Japan. I then gave a brief overview of science history and tried to emphasize how science is very important for our lives even if it is not our profession. After that I talked about some discoveries that I think are extremely interesting. This included the quantum double slit experiment, detection of gravitational waves, gene therapy and structural biology. Although some of these topics are hard to understand, I think the students at least could get a good overview and introduction, which may spark their interest to learn more.

The final part of my presentation consisted of science experiments including yeast fermentation, silver nitrate precipitation, oxidation of copper with nitric acid, thermodynamic can crushing, decomposition of hydrogen peroxide, reaction of water with magnesium and sodium, and others. The students gave a nice response to some of the experiments like the fast reaction of sodium with water which was done in the safe environment of a fume hood with a glass shield. At the end Mori Saori had the students participate in a fun activity. I think the presentation was a success.

- Language used (使用言語): English
- Lecture format (講演形式):
 - ◆Lecture time (講演時間) 110 min (分), Q&A time (質疑応答時間) 10 min (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))

About half of the lecture was oral with the use of powerpoint slides and the other half involved experimental demonstrations.

- ◆ Interpretation (ex.: assistance by accompanied person, provided Japanese explanation by yourself) (通訳 (例: 同行者によるサポート、講師本人による日本語説明))

I was assisted by the Masters student Mori Saori.

- ◆ Name and title of accompanied person (同行者 職・氏名)

森さおり

- ◆ Other note worthy information (その他特筆すべき事項):

The Jonan High School teachers and students were very nice and helpful.

- Impressions and opinions from accompanied person (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。):

**この度は貴重な機会を与えていただき、本当にありがとうございました。
母校での講義ということもあり、高校生のみなさんととても有意義な時間を過ごせたと思います。**