

(For JSPS Fellow)

Form B-2  
(FY2018)

Date (日付)

15/09/2018 (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): Benjamin Joel Sabatini (ID No. PE17781)

- Participating school (学校名): Toyonaka High School, Toyonaka, OSAKA

- Date (実施日時): 15/09/2018 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): Applied Thermodynamics in Archaeology

- Name and title of your accompanying person (講義補助者 職・氏名)

- Lecture format (講演形式):

Lecture time (講演時間) 40 min (分), Q&A time (質疑応答時間) 40 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))

Used projector to display PPT

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

The lecture was designed to discuss my past experiences and what led me to scientific research. I tried to introduce several technical terms, that were translated into Japanese on every slide, in a simple way by discussing each term in smaller parts. Thermodynamics is a difficult field to understand, so I focused on its application in archaeology rather than its technical foundation. Also, the manufacture of metal in modern society is an intricate process that is difficult to understand, so I explained the progressive steps with as many pictures as possible.

One of the more important aspects of my research is in metal recycling. Since recycling is prevalent in Japanese society, in the forms of plastics, which most people are aware of, I attempted to discuss the recycling of metal in a similar manner. In this way I hoped to link my research to something the students would commonly encounter in their daily lives.

I also felt that it was important that the students ask questions, so I actively engaged with the students, leaving plenty of time to discuss my presentation and ascertain how much they understood. I also asked that they come forward after the lecture to ask further questions because many of the students were shy.

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

It is probably best not to present your research without ample amounts of pictures. At the high

school level many students are focused on passing standardized exams rather than critical thinking, so their ability to grasp concepts is improved with images. The students knowledge of English is also limited, so most ideas and terms are completely unknown to them.

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

It's good to see that the teachers I encountered were so determined and active in their jobs.

- Impressions and comments from the accompanying person (講義補助者の方から、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。)