

(For JSPS Fellow)

Form B-5

Date (日付)

16/10/2013 (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): Karen Michelle LEWIS (ID No. P 12764)

- Participating school (学校名): Urawa Girls High School

- Date (実施日時): 28/9/2013 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English) Exploring new worlds: Perspectives and Research of an Australian JSPS Post-doctoral Scientist

(in Japanese) N/A

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

Abstract: Over the past year, I have been exploring new worlds, both as a result of my research into moon detection, and as an Australian scientist living in Japan. To give insight into this, first I describe Australia, including plants and animals, history. I also present comparisons between Australian and Japanese seasons, money and school systems. Second, I give my reason to become a scientist and give suggestions for students also wishing to be scientists. Third, I present the background for my research into detecting moons of extra-solar planets (planets orbiting other stars). In particular, I describe the different types of stars and planets that have been observed, as well as planet detection using the transit technique. Finally, as an example, we look at the moon Pandora (a moon of an extra-solar planet) from the movie Avatar, to see if it could be detected in two observed extra-solar candidate planetary systems, and show the scientific results that support these conclusions.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 90 min (分), Q&A time (質疑応答時間) 30 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))

Powerpoint presentation + short student group exercise

◆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))

Assisted by accompanied person

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

KOBAYASHI Atsushi-san

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

- 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。):

Karen Lewis さんの講演に同行した東京工業大学の小林敦です。日本語で書かせていただきます。

サイエンス・ダイアログ事業のように高校生に最先端の研究内容を紹介することは非常に良いことだと思い、自分も高校生だった頃と同じような経験があれば将来の選択肢が広がったと思います。当日は先生方の手伝いもあって、多少時間をオーバーしてしまいましたが無事講演を終える事が出来ました。最後の Q&A では生徒からのみならず、先生からも質問を頂けてより深い議論が行われました。

今後も機会があったら是非ともお手伝いをしたいです。