

(For JSPS Fellow)

Form B-5

Date (日付)

(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): Robert Bedington (ID No. P )
- Participating school (学校名): Numazu Prefectural Numazu Higashi Senior High School
- Date (実施日時): 15/06/2013 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): (in English) **Analysers instruments for space plasmas**  
 (in Japanese) プラズマ計測器
- Lecture summary (講演概要): Please summary your lecture 200-500 words.

Firstly I used google Earth to show where JAXA is located, where I am from, and some of the other countries I have worked in as a scientist. The pupils and I then discussed differences between Britain and Japan, and how there a quite a few similarities also.

Next I introduced plasmas, space plasmas, how plasma from the sun interacts with the Earth as space weather and why it is interesting and useful to study it. The main topic was about the instrumentation that is used to study the plasma and how it works. I introduced field and particle instrumentation and focussed particularly on electrostatic analysers, my current area of research. I discussed a few example instruments and then a short Q+A session.

Next was a talk about the PoleCATS student rocket mission. This told the story of how an electrostatic plasma analyser that I designed as part of my PhD was developed into a rocket payload by a group of students and launched on a sounding rocket. Specifically the timeline of events and international collaborations that made it happen were highlighted..

In the final section I talked about some of the pros and cons of careers in science and the importance of English. The talk finished with some ideas and tips to help learn/improve English proficiency

- Language used (使用言語): English
- Lecture format (講演形式):
- ◆Lecture time (講演時間) + Q&A time (質疑応答時間) 100 min (分), + 1 to1chatting after
  - ◆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))  
Several presentations of different styles with q+a and discussion after each
  - ◆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))

\_\_\_\_\_ Host researcher provided translations \_\_\_\_\_

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

\_\_\_\_\_ Dr Yoshifumi Saito \_\_\_\_\_

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

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- 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。):