

(For JSPS Fellow)

Form B-5

Date (日付)

8/9/2014 (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 12792)
- Participating school (学校名): 福島県立福島高等学校
- Date (実施日時): 5/9/2014 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): (in English) Measuring plasma in space
(in Japanese)
- Lecture summary (講演概要): Please summary your lecture 200-500 words.

Firstly I discussed my job and what motivates me to do it. Then I talked briefly about 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. This was through a Japanese video that I showed them, but I paused it frequently to add comments in English. The video discussed the science being studied by various JAXA missions. I tried to highlight the key science points and also add some technical and engineering details about the satellites being discussed.

After that I introduced field and particle instrumentation and focussed particularly on electrostatic analysers, my current area of research. This led onto a section 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.

Since there were few questions forthcoming, in the last few minutes I showed a video of the song that the PoleCATS students had written and performed for the post-launch party.

- Language used (使用言語): English (mostly)
- Lecture format (講演形式):
 - ◆Lecture time (講演時間) 70 min (分), Q&A time (質疑応答時間) 20 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, video and prezi

Must be typed

- ◆ 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))

Video was in Japanese

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

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

No accompanying person

- 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。):