

(For JSPS Fellow)

Form B-5

Date (日付)

26/11/2015 (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): Paul Philip Brooks (ID No. P14795 )- Participating school (学校名): Yamashiro High School- Date (実施日時): 21/11/2015 (Date/Month/Year: 日/月/年)- Lecture title (講演題目): (in English) Polymer Sequences: Designing New Materials(in Japanese)

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

The lecture was split into two parts. In the first part I gave a brief background of myself and where I lived and studied in the UK. I also spoke about my motives for becoming a scientist and the area of science I find most interesting – materials science. I finished the first part of the talk with some general comments and advice about science and encouraged them to ask questions.

The second part of the talk was about my specific research. I started by explaining that polymers were large macromolecules made up of smaller repeating molecules bonded together. I then explained that in industry the properties of polymers are typically controlled by the shape of these large molecules. However, natural polymers, such as DNA and protein, are made of multiple units which are arranged in a controlled sequence. Controlling the sequence of man-made polymers is currently a very important challenge for polymer chemists and could allow for many new materials with beneficial properties to be made. I then explained some of the approaches in which my research involves investigating controlling the sequence.

- Language used (使用言語): English with some explanations in Japanese

- Lecture format (講演形式):

◆Lecture time (講演時間) 60 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))

Used Projector

◆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 an accompanying person to explain some contents of the talk

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

Mr. Kammiyada Hajime

◆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。):

聴衆が高校1年生で英語、化学ともに知識が十分で無かったこと、また講演の英語スピードが早かったためか、講演を全て聞き取れているように見えなかったが、若干名英語で質問してくれた生徒さんもいたので、高校生たちにはいい経験だったのではないかと考えている。

もし可能であれば、高校生の英語レベルを事前に知るための資料があれば、講演者もそれに合わせて事前に英文レベルを調整しやすいのではないかと思う。