

(For JSPS Fellow)

Form B-2
(FY2018)

Date (日付)
09/07/2018 (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): Laura Lander (ID No. 2017181)

- Participating school (学校名): Komaba-Toho High School

- Date (実施日時): 27/06/2018 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): The Science of Batteries

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

- Lecture format (講演形式):

◆Lecture time (講演時間) 50 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))

Projector

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

In the beginning, I introduced my country – Germany – via its cultural heritage. After giving a short overview of Germany's history, I talked about famous German people and its car industry. Afterwards, I talked more specifically about my hometown with a current reference to the world cup. The next section dealt with my education and studies, where I first explained the German school system compared to the Japanese one. For each country, where I studied, I presented some cultural specifics such as monuments and food. In the third part, I spoke about batteries. First, I described the history of batteries and described for the major innovations the underlying redox chemistry. I discussed the need for batteries, which is related to the infinite fossil fuel resources and the need for an energy transition towards renewable energies. Furthermore, I talked about the various applications of batteries. I described my every-day work in laboratory and the various steps, which are related to my research such as synthesis, characterization and communication of results. I further pointed out the role of Japan in the battery research field. In the end I talked about the major challenges of the 21st century and the need for future scientists to solve these challenges.

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

It is important to keep the underlying science as simple as possible and to speak slowly so everyone can follow. The accompanying person can also translate important parts during the presentation.

Interesting for the students is the comparison between the home country and

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

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- 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。)