

Form B-2  
(FY2020)  
Must be typed

Date (日付)  
08/01/2021 (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): Jet-Sing Martin LEE (ID No.P19041 )
- Name and title of the accompanying person (講義補助者の職・氏名)  
Dr Hiroshi SATO
- Participating school (学校名): Takefu High School
- Date (実施日時): 15/12/2020 (Date/Month/Year: 日/月/年)
- Lecture title (講義題目):  
Applications of New Synthetic Porous Materials
- Lecture format (講義形式):  
◆Lecture time (講義時間) 50 min (分), Q&A time (質疑応答時間) 20 min (分)  
◆Lecture style (ex.: used projector, conducted experiments)  
(講義方法 (例: プロジェクター使用による講義、実験・実習の有無など))  
Presentation and quiz

- Lecture summary (講義概要): Please summarize your lecture within 200-500 words.  
The lecture starts with an introduction of my geographical background, travelling from UK to Japan, showing various parts of UK, and discussing the education I received from each institution. The lecture then moves on to the similarities and differences between UK and Japan, from statistics between climate, to the differences in the university systems. Moving forward from the subject of universities, the term "research" is explained, what is it? And what are the differences between research in industry and academia. The costs of some research equipment and facilities were also shown. Various advantages of undergoing research in academia was explained, especially the subject of creative freedom.  
After this section, a short 10 minute quiz was given by the accompanying person in Japanese related to research, to give the students a break and refresher.  
The lecture then continues to the scientific section. This was split into two parts: global warming and new materials that can solve this problem. The issue of global warming and outcomes were presented, relating to the increased emissions of CO2. Porous materials were presented as an option to tackle this. The history from old to newly discovered porous materials were introduced.

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The design of these porous materials were explained, as well as the mechanism for absorbing CO<sub>2</sub>. Absorption of liquid and solid-state molecules were also introduced, with their applications. The lecture ended with two conclusion, a scientific conclusion, and a conclusion for why the students should consider scientific research as a career.

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

A lot of positive feedback was received after the lecture, with additional questions by the students. It is good that the students have become curious and inspired by the lecture.

- 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。): コロナ禍のためオンラインでしたが、高校生からの質問も多く、楽しく参加させていただきました。私自身も地方の公立高校出身であり、地方の高校生にとって外国人研究者の生の声が聞ける本事業のような取り組みは貴重だと思います。