

Form B-2  
(FY2022)  
Must be typed

Date (日付)  
25/07/2022 (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): Maoliang Zhang (ID No. P20025)

- Name and title of the lecture assistant (講義補助者の職・氏名)  
Kotaro Shirai, PhD, Associate Professor

- Participating school (学校名): Shibaura Institute of Technology, Kashiwa Senior High School

- Date (実施日時): 16/07/2022 (Date/Month/Year: 日/月/年)

- Lecture title (講義題目):  
INTO THE DEEP: Why do we study Earth and planetary sciences?

- Lecture format (講義形式):  
◆  Onsite ・  Online (Please choose one.) (  対面 ・  オンライン (どちらか選択ください。))  
◆ Lecture time (講義時間) 45 min (分), Q&A time (質疑応答時間) 15 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))  
used slides and projector

- Lecture summary (講義概要): Please summarize your lecture within 200-500 words.

This lecture aims to give a brief introduction of why we should study Earth and planetary sciences to the students of Shibaura Institute of Technology, Kashiwa Senior High School. It consists of three parts. In the first part, I explained the meaning of "INTO THE DEEP" by linking the deep time and deep space of the universe (i.e., what Earth and planetary scientists are studying) to the deep mind and deep thinking that is required in scientific research and daily life. In the second part, I took the Earth as an example and briefly explained (i) why our Earth is the only known habitable planet in the solar system, (ii) how it became habitable for life from a "magma ocean" Earth about 4.56 billion years ago to a "blue marble" Earth at present, and (iii) our challenges in the present-day global warming era for seeking answers to building a sustainable future Earth. In the third part, I explained the responsibilities of Earth and planetary scientists by showing their research, roles, and contributions to our human society. Also, I shared a few interesting photos of the work and daily life of Earth and planetary scientists with the students. Finally, I summarized the lecture with three take-home messages and emphasized that we should learn more from the geological past and present of the Earth to build a sustainable Earth in the future.

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※弊会記入欄

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

Students are very smart and active. We had a good and interesting discussion after the lecture.

- Impressions and comments from the lecture assistant (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。):

SSH に採択されており、好奇心が強く科学に親しんでいる生徒が多い高校で、英語力も高く、みなさん非常に興味をもって聞いていました。講演者、私、生徒、先生、とみんなにとって貴重な経験になったと感じます。非常に教育効果の高い良い事業だと思いますので、是非継続して行って下さい。

1 点要望として、講師がこの講義を 1 コマ引き受けるのに、打合せや講義準備も含め非常に多大な労力を払っています(この報告書も然りです)。もちろん本人のためにもなるのですが、ボランティアベースでやってもらうには気が引けるレベルです。気持ち程度でも結構ですので、謝金か給与を支払って頂けるように改善して頂けると持続可能な制度になると感じました。