

Form B-2
(FY2021)
Must be typed

Date (日付)
09/08/2021 (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): BISWAS Subir Kumar (ID No. P20095)

- Name and title of the accompanying person (講義補助者の職・氏名)
川端将貴 (M2, Graduate School of Agriculture, Kyoto University)

- Participating school (学校名): Kyoto University of Advanced Science Senior High School

- Date (実施日時): 27/07/2021 (Date/Month/Year: 日/月/年)

- Lecture title (講義題目): Part 1: Self-Introduction & Beautiful Bangladesh
Part 2: Research in Japan: Future wood-derived materials

- 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) 105 min (分), Q&A time (質疑応答時間) 10 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))

Interactive PPT presentation via projector and Experimental sample display

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

My lecture for the JSPS Science Dialogue had two parts. In the first part, I introduced myself and my country. I told the students that I am from a small country, called "the land of rivers", Bangladesh. It has just turned into a middle-income country. Japan and Bangladesh are friends for long. Japan is one of the biggest development partners of Bangladesh. We learned together about Bangladesh, its culture, scenic places, foods, and many more, and compare those with Japan.

In the 2nd part, I talked about my research work in Japan. I heard from their teachers that they are working on a project related to the sustainable development goals (SDGs). Therefore, I explained them that the current world is suffering from global warming and climate change issues. We must restrict the use of fossil fuels and reduce carbon emissions in order for a livable and sustainable world, according to the SDGs. Our future living should be more solar energy driven and carbon neutral.

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※弊会記入欄

One question that has always fascinated me that “how does a tree support its huge upright body?” It is the “intelligent design” of wood that supports the huge body of a tree. Wood is a carbon fixation product of photosynthesis produced by using the solar energy. Wood is carbon neutral. We use wood in our everyday life. I discussed with the students that my research interest is how we can use the “intelligent design” of wood to make unique wood products. My goal is to produce “advanced” wood products for the future, not traditional wood products. I showed them how we can turn wood into a transparent glass-like material, which may find applications in automobile and house-building industries. Therefore, through my research on the development of new and advanced wood-based sustainable materials for future needs, I can also contribute to fighting the climate change issues.

In short, I have tried to explain the students the wood in a different way! I hope that the students got a new perspective that would inspire them to develop new nature-based sustainable products for future needs.

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

To make the students understand easily about my research, I have displayed them the experimental samples. This had triggered their interest into my research. They have asked me some high-thought questions, such as the ability of the product I am developing to biodegrade in nature. Not only the students, the teachers have also discussed with me about my research after the lecture, and encouraged me to continue for further developments.

- 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。):

Mr. Kawabata was very impressed by the fact that the students of Kyoto University of Advanced Science Senior High School have a very good command over English. He was very happy to participate in the JSPS Science Dialogue program.