SD
※弊会記入欄

Form B-2
(FY2022)
Must be typed

Date（日付）
24/01/2023 （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）: ZHU Luting （ID No. P22094 ）

- Name and title of the lecture assistant（講義補助者の職・氏名）
HUANG Yingtong (doctor student)

- Participating school（学校名）: Kyoto Municipal Kyoto Kogakuin Senior High School

- Date （実施日時）: 20/01/2023 （Date/Month/Year:日/月/年）

- Lecture title（講義題目）:
Development of nanofibers from nature for society innovation

- 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） 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））
Used projector

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

About my lecture, firstly I have a brief self-introduction, also I shared recommended things in China (my home country) and my impressions about Japan to deepen the connections with the students.

Then I started my scienfic part from some common questions: Do you know what the forest coverage of Japan is? Should we cut trees? After sharing some information/data with them, I concluded that we could cut and use the trees in a sustainable way.

I showed them the common usage of trees/woods, and then showed them the micro-nano sacle of wood (trees→wood chips→cellulose fiber→cellulose nanofiber). Then I told them what other materials in nature contains cellulose nanofiber and also other nanofiber (chitin nanofiber) exists in nature. After that, I presented the advantages of these nanofibers in nature, commercial products with these nanofibers, market size of the cellulose nanofibers, and challenges of using these nanofibers.

Then I moved to my research about development of sustainable electronics using these nanofibers in nature. With a brief introduction, I showed them the possible applications such as

photo sensor, supercapacitor and humidity sensor.
Finally, I answered some of their questions I already received after they watching some videos about cellulose nanofibers. (About 50 min)
Then it came to the question and answer part. (About 20 min)
During the lecture, I also brought and showed many samples for better understanding, such as wood chips, cellulose fiber, cellulose nanofiber, transparent cellulose nanofiber paper, nanocellulose knife, original and white cicada shells, and cellulose-derived humidity sensors.

◆Other noteworthy information（その他特筆すべき事項）:
For better understanding the nanofibers in nature, the English teacter in Kyoto Municipal Kyoto Kogakuin Senior High School and I have discussed much. I searched 3 videos about cellulose nanofibers and prepared some questions about the videos, then the teacher showed these videos in December gave me the feedbacks from students. I added the content according to the students' feedbacks when I was preparing my presentation. Moreover, a foreign teacher in the high school checked whether the English in my PPT file was difficult or not for the high school students, and a science teacher prepared a class about my topic ahead of time.
Both the teachers in the high school and I valued this lecture and put lots of effort, which I apprepriate vey much.

- 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。）:
I was motivated by the vitality from the students. Hope to have another chance to participate in this kind of activities.