

様式 A-1
(FY2023)

2024 年 2 月 13 日

サイエンス・ダイアログ 実施報告書

1. 学校名・実施責任者氏名: 山脇学園中学校高等学校 ・ 岩永洋輔
2. 講師氏名: Dr. Lidiya SHAMOVA
3. 講義補助者氏名: 細川尚子先生
4. 実施日時: 2024 年 1 月 29 日 (月) 15:30 ~ 17:00
5. 参加生徒: 中学 3 年生 84 人、 年生 人、 年生 人 (合計 人)
備考: (例: 理数科の生徒) 英語チャレンジプログラム(英語で探究活動をするクラス)
6. 講義題目: The Music of the Words
7. 講義概要: 音楽に基づいた基本的な普遍的コミュニケーションシステムを構築する研究。音楽の符号を通じて簡略化された語彙領域を表現することで、異なる言語にアプローチする。
8. 講義形式:
☒ 対面 ・ ☐ オンライン (どちらか選択ください。)
 - 1) 講義時間 60 分 質疑応答時間 20 分
 - 2) 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)
プロジェクター使用による講義、簡単な実験
 - 3) 事前学習
☒ 有 ・ ☐ 無 (どちらかに○をしてください。)
使用教材 事前に頂いた研究の概要を生徒達へ連絡
9. その他特筆すべき事項:
事前に生徒達は研究員の方の情報を読み込み、自身の研究と繋げられるように事前準備をしておきました。

Form B-2
(FY2023)
Must be typed

Date (日付)
2/2/2024 (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): SHAMOVA Lidiya Dochkova (ID No. P22785)

- Name and title of the accompanying person (講義補助者の職・氏名)
Dr. HOSOKAWA Naoko

- Participating school (学校名): Yamawaki Junior & Senior High School

- Date (実施日時): 29/1/2024 (Date/Month/Year: 日/月/年)

- Lecture title (講義題目):
RESEARCH EXPERIENCE: THE MUSIC OF THE WORDS

- 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) 60 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))

PPT Presentation. Used projector, microphone and speaker. Music experiment, using
Midi-controller,

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

In the lecture participated 84 students from 3rd and 4th grade of the Junior High School. They are participating also in the International exchange program in the U.K. this year, so they have high English-level proficiency. The student's main teacher Iwanaga-sensei was responsible for the organisation. He was kind and very helpful during all the conversations, the welcoming part and the lecture. On the day of the event, he also collaborated with his colleague Miyazaki-sensei. During the lecture, there were a few other observing teachers. The students were engaged in the lecture, they actively participated and asked a large number of interesting questions.

My colleague Dr Naoko Hosokawa introduced herself at the beginning of the lecture with a few words, but there was no need for further assistance due to the student's good comprehension skills. Therefore, Dr. Hosokawa enjoyed the lecture together with the students and their teachers. I conducted the presentation, including the following sections: my personal and scientific background, my lab introduction, inspiration and motivation, my research project (hypothesis,

methodology, description, expected results), other activities I take part in and some tips for the students. I tried to make the presentation more interactive and I included short blogs of music and videos. During the main part of the presentation, i.e. while presenting my research, I engaged the students in an experimental part that consisted of a musical experiment. They needed to listen and choose some piano chords, associating them with word clusters. Therefore, they felt engaged in the working process of the project and lively participated in the experiment. In the final part of my presentation were included some tips for the students related to the possibilities of finding a balance between personal and scientific life as well as a few practical steps for conducting an original research project.

The idea of my presentation wasn't only to present my project, but to share as much as possible my knowledge and experience with the students. They are the future scientists of the world and I think all of us should try to contribute to their development.

After the presentation, the students were motivated to ask questions. They asked a wide range of questions related to their own research projects, but also regarding their future in science. They were also interested in my path in science and asked some practical questions about surveys, text structure and others, so I think that providing more time for the Q&A part would be convenient.

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

I would recommend to all JSPS fellows to use this unique opportunity and to share their projects with the next generation. I think it is a fruitful and inspiring experience for any researcher, but it is also very helpful for the students. Yamawaki Junior High School's Professors, especially Iwanaga-sensei were very kind, and helpful and showed great hospitality. Two of the students who volunteered to be a chairman and to make the welcoming part of the event have done a great job and demonstrated high efficiency in managing the Q&A session. I think the great organization provided by the JSPS representatives and the school team as well as the lively participation of the students and the interactive lecture guaranteed the success of this 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。):

I was there to help with the translation in case the students didn't understand the lecture. However, I was very impressed and pleased to see that most of the students seemed to follow the lecture without any language assistance. The students were very attentive throughout the lecture, actively taking notes, participating in the surveys during the lecture and asking questions. I think there could be more time for interaction between the presenter (Dr. Shamova) and the students, as they were very curious about the presenter's professional background.

