

様式 A-1
(FY2023)

2024 年 7 月 12 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: 長野県諏訪清陵高等学校

講師氏名: Dr. Lucas Robert HEARN

講義補助者氏名: 竹中海斗

2. 実施日時: 2024 年 7 月 12 日 (金) 15 : 50 ~ 17 : 00

3. 参加生徒: 年生 人、 年生 17人、 年生 人 (合計 17人)

備考: (例: 理数科の生徒) 年度末の研修に参加を希望する生徒

講義題目: 地球規模の気候変動に対する日本在来種ハチの適応的制約条件

4. 講義概要: 日本在来のハチが環境の変化にどのように対応してゆくかについて

5. 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 50 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)

生物標本、スライドなど視覚媒体を使用。

3) 事前学習

事前学習を実施

使用教材 生物に関する英文教材を作成し、配布。

6. その他特筆すべき事項:

今回は、定期考査、文化祭などで日程がとれず、十分な準備ができなかった事が悔やまれます。次回に向けて事前準備を充実させる方策を探りたいと思います。

Form B-2
(FY2024)
Must be typed

Date (日付)
15/07/2024 (Date/Month/Year: 日/月/
 年)

Activity Report -Science Dialogue Program-
(サイエンス・ダイアログ 実施報告書)

- Fellow's name (講師氏名): Lucas Robert Hearn (ID No. P23711)
- Name and title of the lecture assistant (講義補助者の職・氏名)
Kaito Takenaka
- Participating school (学校名): Nagano Prefectural Suwa Seiryō High School
- Date (実施日時): 12/07/2024 (Date/Month/Year: 日/月/年)
- Lecture title (講義題目):
Adaptive constraints of Japanese native bees in the face of global climate change
- 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) 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 projector, handed out insect specimens for students to observe
- Lecture summary (講義概要): Please summarize your lecture within 200-500 words.

I gave a lecture to Nagano Prefectural Suwa Seiryō High School School students on Friday 12th of July. The group of students in attendance consisted of students that were taking part in an upcoming school trip to Okinawa to visit the University of the Ryukyus to further their english and biology skills.

My lecture was given in four sections and ran for 60 minutes. I first gave an introduction about myself – where I am from and my academic journey to become a JSPS Postdoctoral Fellow. I then gave the students an introduction to bee biology and evolution. At this time in the lecture I handed around some preserved bee specimens I had collected from around Japan so that the students could see first hand the diversity of bees that exist in Japan. I also provided some interactive quizzes in this section to test the students' knowledge of bees. In the third section, I talked about the importance of bees with an emphasis on conserving native bees and the difference between invasive honey bees and native bees. Finally, I discussed my research here in Japan as part of the JSPS postdoctoral program. In this section, I talked about the aims of my

research, how I plan to carry out the research and some of the general outcomes I hope to achieve. I ended the lecture with a final message about the importance of conserving native biodiversity. At the end of the lecture, some students asked some very insightful questions however, I felt that some of the language I used in my talk may have been too technical and the students may not have understood certain sections of the lecture.

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

- Impressions and comments from the lecture assistant（講義補助者の方から、本プログラムに対する意見・感想等がありましたら、お願いいたします。）:

The teacher in charge at the host high school was fluent in English and natural sciences, so we were able to communicate and interact well with the teacher. In addition, during the lecture, the teacher, who was well aware of the knowledge level of the participating students, added additional explanations in Japanese as appropriate. I mainly assisted the communication between the teacher and Dr. Hearn. The students did not seem to know that there were small "bees" other than honeybees, and it was impressive to see them gazing fascinated at the specimen collection prepared by the doctor. I was happy that I was able to contribute to the students' understanding of biodiversity.