

様式 A-1
(FY2023)

2024年2月5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: 京都府立城南菱創高等学校 坂田幹雄
2. 講師氏名: Dr. Mohamed A. AHMED
3. 講義補助者氏名: なし
4. 実施日時: 2024年 2月 2日 (金) 10:45 ~ 11:35
5. 参加生徒: 2 年生 33 人、 年生 人、 年生 人 (合計 33 人)
備考: (例: 理数科の生徒) 教養科学科物理探究 I 選択者
6. 講義題目: Research of Novel Magnets for Energy Futures
7. 講義概要: ①エジプトについて
 ②ご自身の経歴について
 ③ご自身の研究内容
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 50 分 質疑応答時間 0 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
 - 3) 事前学習
 ☒ 有 ・ ☐ 無 (どちらかに○をしてください。)
 使用教材 講師の方から事前に送られた Outline
9. その他特筆すべき事項:
 ジェスチャーも交えて、とても熱心にお話ししていただきました。

Form B-2
(FY2023)
Must be typed

Date (日付)
07/02/2024 (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): Mohamed Abdelkareem Ali AHMED (ID No. P22016)

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

None

- Participating school (学校名): Kyoto Prefectural Jonan-Ryoso High School

- Date (実施日時): 02/02/2024 (Date/Month/Year: 日/月/年)

- Lecture title (講義題目):

Research of Novel Magnets for Energy Futures

- 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) 55 min (分), Q&A time (質疑応答時間) 5 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))

Powerpoint presentation with a used projector

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

The lecture has been prepared in view of the JSPS Science dialogue program objectives and based on a pre-communication with the Teacher in charge at the participating high school, Kyoto Prefectural Jonan-Ryoso High School. The total time of the lecture was about 55 minutes started on a pre-decided start time and finished 5 minutes before the designated end time. First, I introduced myself and presented the lecture title and outline to the audience and asked the students to ask questions at any time through the lecture. The lecture started with a snapshot about my home country, Egypt, its location, history, and culture, followed by a slide about the academic life in my home university in Egypt, Assiut University. After that, I explained my own experience with the academic life and activities in the host university, Kyoto University, since being a doctoral student to a postdoctoral JSPS fellow researcher. The lecture contained a quick explanation of the scientific research process as a main mean for the human knowledge transfer. As an example of the scientific research and its benefits to the society, the global energy challenges and pathways for a net-zero CO₂ emission were briefly presented with emphasis on the magnets and magnetic materials as key enablers in a net-zero CO₂ emission future. A short

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stop was made at the M-type ferrites, as the most economic classical magnet still commercially competitive in the market, with a brief explanation of recent development results in this research topic. The lecture was concluded with some advice from my own experience to the students that may help them to decide and succeed as a researcher. Although the students class schedule on the lecture day did not enable for a time of further questions, I found a good interaction while the lecture and I enjoyed such a communication opportunity with Japanese students.

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

The Teacher in charge, Mr. Mikio Sakata, was extremely kind and friendly. He helped me so much in the activity with a good communication before, while and after the lecture time.

- 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。）:

1. Egyptian Culture and Academic Life in Asutut University
(A Conceptual)

Where Egypt is located?

Map of Egypt and its location in the world.

Map of the Nile River.

Map of the Nile River.

