

様式 A-1
(FY2024)

2024 年 10 月 28 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: 高田中・高等学校 眞田史織
2. 講師氏名: Dr. Julien Jean DUCROCQ
3. 講義補助者氏名: _____
4. 実施日時: 2024 年 10 月 22 日 (火) 10:45 ~ 12:45
5. 参加生徒: 1 年生 55 人、 2 年生 10 人、 3 年生 10 人 (合計 75 人)
備考: (例: 理数科の生徒) 普通科特別選抜クラスの生徒 59 名中、当日欠席 4 名
6. 講義題目: My Reseach in Japan!
7. 講義概要: 講師の母国に関する紹介、研究内容(仮想双眼鏡)の紹介、デモンストレーション、質疑応答
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 40 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 実験は無し。生徒による iPad でのソフト使用体験
 - 3) 事前学習
☒ 有 ・ ☐ 無 (どちらかに○をしてください。)
使用教材 事前に提示されたキーワードを元に、本校 ALT が作成したプリント
9. その他特筆すべき事項:

Form B-2
(FY2024)
Must be typed

Date (日付)

(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): Julien Ducrocq (ID No. P23708)

- Name and title of the lecture assistant (講義補助者の職・氏名)
No lecture assistant came, since the school already had a competent ELT teacher.

- Participating school (学校名): Takada Junior and Senior High School (Tsu, Mie)

- Date (実施日時): 22/10/2024 (Date/Month/Year: 日/月/年)

- Lecture title (講義題目):
My lecture in Japan!

- 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) 45 min (分), Q&A time (質疑応答時間) 75 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 ; let them click on a link with tablet pads rent by the school (demo)

- Lecture summary (講義概要): Please summarize your lecture within 200-500 words.
France is a western Europe country famous for its milleniar history and its exquisite gastrony -
Japan also have great food and famous history, but Japan and France remain very different. I come from Amiens,
a small city in the North with an impressive cathedral, taller than Notre-Dame de Paris. My past research, in MIS, UPJV, Amiens,
was related to camera design, image processing and robot navigation. Nowadays, i still do image processing: I design interactive
bifocal lenses by modifying the image geometry. These lenses magnify locally an image region without losing the rest of the
image. (which could be useful for suveillance and high-accuracy task such as surgery or soldering) I am currently analysing the
results of a user study, and starting to adapt my lenses for virtual reality.
◆Other noteworthy information (その他特筆すべき事項):
During the Q&A, I made students tried an implementation of my virtual lenses by sending them a link to the online shaders website "
Shadertoy". Meanwhile, I passes through the ranks and answered their questions (mostly about research, France and virtual reality, and
sometimes about the lenses themselves).
During the 20 last minutes of the class, the ELT teacher organized an interactive "game", where students had to find as fast as possible,
an emoji within a crowd thanks to my lenses. This interactive challenge was definitely a plus.

- 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。):

No lecture assistant helped me this time.

The ELT teacher really liked my way to present my research and said that the students enjoyed, even though
most of them where too shy to ask questions in English.

Conclusion

- I come from Amiens, France



- My research relates to:

- Camera design,
- Robot navigation,
- Mixed reality



- I am designing a new zooming interface
 - Visual effects & human-machine interaction

