

様式 A-1
(FY2025)

2026 年 2 月 2 日

サイエンス・ダイアログ 実施報告書

1. 学校名: 愛知県立岡崎高等学校
2. 講師氏名: Dr. Joseph Gregory O'CONNELL-DANES
3. 講義補助者氏名: なし
4. 実施日時: 2026 年 1 月 19 日 (月) 16:00 ~ 18:00
5. 参加生徒: 1 年生 18 人、 2 年生 22 人、 3 年生 0 人 (合計 40 人)
備考: (例: 理数科の生徒)
6. 講義題目: 超分子化学の応用
7. 講義概要: 講義者の自己紹介、専門分野(超分子)に関する講義
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 60 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 (どちらか選択ください。)
使用教材:
9. その他特筆すべき事項:

Form B-2
(FY2025)
Must be typed

Date (日付)
20/01/2026 (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): Joseph O' Connell-Danes (ID No.P24771)

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

- Participating school (学校名): Aichi Prefectural Okazaki High School

- Date (実施日時): 19/01/2026 (Date/Month/Year: 日/月/年)

- Lecture title (講義題目):

A self-assembled journey in self-assembled supramolecular Chemistry

- 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) 30 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 project and 3D Printed Models

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

The lecture was divided into three broad sections. The first section focused on my academic journey through school, university, doctoral studies, and post-doctoral research. This section aimed to highlight my experiences throughout my education, as well as the key decisions I made along the way. It also introduced students to some of the key differences between education in the UK and Japan.

The second section provided a brief introduction to the field of supramolecular chemistry, a subject the students were unlikely to have encountered previously. This section outlined some of the history of the field and showcased several key industrial applications. Rather than focusing heavily on scientific detail, it aimed to generate excitement about the possibilities offered by the field and to contextualise my research within the broader discipline.

The final section summarised my research from my PhD and my fellowship in Japan. This section sought to convey the scientific thought processes that led to the discoveries in my research, while

also introducing students to practical aspects of my work, including key instruments and techniques. At this point in the lecture, I distributed a set of 3D-printed models of the molecules that are the focus of my current research. These models served as a visual aid to help students understand some of the figures presented on the slides and were received with significant interest from both students and staff alike.

The lecture concluded with several key take-home messages, summarising non-scientific themes that were reiterated throughout the talk, including collaboration, communication, and curiosity. The lecture was followed by approximately 30 minutes of questions from the students on a wide range of topics, including my research as well as my experiences living and working in Japan and the UK.

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

In addition to my lecture, I had the opportunity to meet and discuss with the headteacher of the school as well as some of the chemistry teachers. My contact at the school very kindly gave me a tour of the school's science facilities.

- 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。):