

様式 A-1

2026 年 7 月 17 日

サイエンス・ダイアログ 実施報告書

1. 学校名: 兵庫県立川西緑台高等学校
2. 講師氏名: Dr. Simon Hugo CHOUTEAU
3. 講義補助者氏名:
4. 実施日時: 2026 年 7 月 13 日 (月) 11:10~12:15
5. 参加生徒: 年生 人、 年生 人、 総合理数コース3年生 36 人 (合計 36 人)
備考: (例: 理数科の生徒)
6. 講義題目: Plasma: the fourth state of matter
7. 講義概要: “Plasma” is often defined as the fourth state of matter. Although rarely encountered in everyday life on Earth, it is estimated that over 99% of ordinary matter in the universe exists in the plasma state. Stars are the most familiar example of so-called hot plasmas, but plasmas come in many other forms as well. In particular, plasmas can be artificially created using strong electric fields or high temperatures. Because they contain charged particles, conduct electricity, and naturally emit light, plasmas are used in a wide range of applications, especially in microelectronics and semiconductor device manufacturing. In this lecture, we will explore the main types of plasmas, how they behave, and what they are used for. We will also learn about an experimental technique called optical emission spectroscopy, which allows us to uncover valuable information hidden in the light emitted by plasmas.
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 55 分 質疑応答時間 10 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、実験の実施
 - 3) 事前学習
☒有 ・ ☐無 (どちらか選択ください。)
使用教材: 本校作成のワークシート
9. その他特筆すべき事項:

Form B-2

Date (日付) 14/07/2026

(Date/Month/Year: 日/月/年)

Must be typed

Activity Report -Science Dialogue Program-

(サイエンス・ダイアログ 実施報告書)

1. Fellow's name (講師氏名): Simon Chouteau (ID No. P24751)
2. Name and title of the lecture assistant (講義補助者の職・氏名)
3. Participating school (学校名): 兵庫県立川西緑台高等学校 (Hyogo Prefectural Kawanishi Midoridai High School)
4. Date (実施日時): 13/07/2026 (Date/Month/Year: 日/月/年)
5. 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) 40 min (分), Q&A time (質疑応答時間) 20 min (分)
 - ◆ Lecture style (e.g. 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))
6. Lecture title (講義題目):
Plasma: the 4th state of matter
7. Lecture summary (講義概要): Please summarize your lecture within 200-500 words.
"Plasma" is often defined as the fourth state of matter. Although rarely encountered in everyday life on Earth, it is estimated that over 99% of ordinary matter in the universe exists in the plasma state. Stars are the most familiar example of so-called hot plasmas, but plasmas come in many other forms as well. In particular, plasmas can be artificially created using strong electric fields or high temperatures. Because they contain charged particles, conduct electricity, and naturally emit light, plasmas are used in a wide range of applications, especially in microelectronics and semiconductor device manufacturing. In this lecture, we will explore the main types of plasmas, how they behave, and what they are used for. We will also learn about an experimental technique called optical emission spectroscopy, which allows us to uncover valuable information hidden in the light emitted by plasmas.
8. Other noteworthy information (その他特筆すべき事項):
9. 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。):

