

様式 A-1

2026 年 6 月 7 日

サイエンス・ダイアログ 実施報告書

1. 学校名: 静岡県立韮山高等学校
2. 講師氏名: Dr. Lykke Linnea SILFWERBRAND
3. 講義補助者氏名:
4. 実施日時: 2026 年 6 月 5 日 (金) 15 : 30 ~ 17 : 00
5. 参加生徒: 1 年生 3 人、2 年生 37 人、3 年生 0 人 (合計 40 人)
備考: (2 年生は文系探究コースの生徒)
6. 講義題目:
"Science is to be curious. I am curious about the brain and the social behavior of leading and following."
7. 講義概要:
題目に沿った内容に加えて、講義者の国についても講義して下さった。
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 30 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: キーワードリストと講義のおおまかな内容と流れを周知した。
9. その他特筆すべき事項:
特になし

(Date/Month/Year: 08/06/26)

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): Silfwerbrand Lykke (ID No. P25732)
2. Name and title of the lecture assistant (講義補助者の職・氏名)
3. Participating school (学校名): Shizuoka Prefectural Nirayama High School
4. Date (実施日時): 05/06/26

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) 45 min (分), Q&A time (質疑応答時間) 30 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))

Used Powerpoint, talked in microphone, made a behavior experiment that involved all students,

6. Lecture title (講義題目): The brain in leading and following

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

The presentation "JSPS at Shizuoka" is a science dialogue lecture by Lykke Silfwerbrand, a JSPS International Postdoctoral Fellow at the Institute of Science Tokyo. It introduces her personal academic journey, research focus, and the broader message of curiosity-driven science.

The talk begins with an introduction to the speaker's background, including her origin in northern Sweden, her multilingual abilities, and aspects of Swedish culture such as the Nobel Prize tradition. It also highlights her current life in Japan as a JSPS fellow, emphasizing international research exchange.

A key theme is the speaker's interdisciplinary path to science. She describes studying computer science and management, working as a project manager and university teacher, and eventually completing a PhD in neuroscience. This trajectory illustrates that scientific careers can be non-linear and diverse.

The core of the presentation focuses on her research topic: how the brain governs social behavior, particularly in leading and following interactions. She explores questions such as how one brain influences another and how behavior emerges in social dynamics.

To study these processes, she uses neuroscience tools including EEG (electroencephalography) and fMRI (functional magnetic resonance imaging). EEG provides high temporal resolution of brain activity, while fMRI offers detailed spatial maps of brain activation.

An interactive experiment is included, where participants practice leading and following using a pen, demonstrating coordination and shared goals. This activity connects theoretical research with real-world experience.

The presentation concludes by encouraging curiosity, discussion, and interest in science careers, emphasizing exploration, international experience, and personal motivation as central to scientific development.

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

It was fun. I received good responses from the students during the lecture and very nice feedback and questions from the students after the presentation.

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。):