

Form B-2  
(FY2022)  
Must be typed

Date (日付)  
25/11/2022 (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): Julien Richirt (ID No. P21729)
- Name and title of the lecture assistant (講義補助者の職・氏名)  
Dr. Hidetaka Nomaki
- Participating school (学校名): Shizuoka prefectural Shimoda High school
- Date (実施日時): 24/11/2022 (Date/Month/Year: 日/月/年)
- Lecture title (講義題目):  
Benthic foraminifera and their adaptations in the deep sea ecosystem
- 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) 35 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))  
Conference style – projector – use of microscope to see samples
- Lecture summary (講義概要): Please summarize your lecture within 200-500 words.

The lecture began with a short presentation of my study in France (where and what I did from my bachelor to my PhD thesis). After this introduction, I defined and presented what are ecosystems and their importance in a changing world due to global change. I emphasised on the need to understand how they are functioning. I presented different kind of ecosystems all around the world, to show the student the diversity of systems on earth. I focused later on what is deep sea and why it is crucial to study these environments (they represent 50% of the total earth surface, but are difficult to investigate because you need high-end technology to access and study great depth). Next part was about benthic foraminifera: what are they, a general presentation of their discovery, basic characteristics and their use in science, and how they adapt their environment, particularly in the deep sea. Finally, I showed them what I try to understand and how I investigate regarding my research project in Japan (i.e. better understanding of the nitrogen cycle regarding the denitrification ability of benthic foraminifera). We finished with observation of benthic foraminifera of the from the Sagami Bay using stereomicroscopes and microscope.

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

## - Impressions and comments from the lecture assistant

I was a bit afraid that the students may be shy so there will not be a lot of questions for Julien's talk. However, this was not the case; the students of Shimoda high school were highly motivated and asked a variety of scientific/cultural questions for Julien. This occasion also provided a nice experience for Julien to tell his science to young students and know what they feel about that. These experiences cannot be obtained in the laboratory of JAMSTEC, so I appreciate the efforts of JSPS to this program.

(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。):