

Form B-2
(FY2021)
Must be typed

Date (日付)
13/7/2021 (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): Man Yin Tsang (ID No. P20773)

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

- Participating school (学校名): Hyogo Prefectural Kawanishi Midoridai Senior High School

- Date (実施日時): 2021 / 07 / 12 (Date/Month/Year: 日/月/年)

- Lecture title (講義題目):

Life under the Seafloor

- 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) 50 min (分), Q&A time (質疑応答時間) 15 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, showing mineral samples

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

I introduced to students the discipline of Earth Sciences, how I became interested in this subject and what Earth Scientists do. As Earth Scientists we use multidisciplinary tools to understand our planet Earth, both in modern times and in the past. In order to know what happened on Earth in the past, long before human begins appeared, Earth Scientists study rocks and minerals which recorded environmental and biological information during their formation.

My research focuses on the deep life under the seafloor. Such deep life consists of a large population and their living condition resembles the surface of the Earth more than 2.5 billion years ago -- there is no free oxygen. To study deep life, scientists need to overcome various challenges and use a combination of tools.

Recently, it is found from sediments at the Nankai Trough that deep life under the seafloor can survive at at least 118 degrees Celsius. However, in shallower and colder sediments, there are

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depth intervals with no or very few cells. Hot underground fluid (up to 220 degrees Celsius) in the past may be responsible of killing off the cells. My current research project in Japan investigates the age and origin of such hot fluid.

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

- Impressions and comments from the accompanying person (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。):