

Form B-2
(FY2021)
Must be typed

Date (日付)
25/06/2021 (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): Fiorani Andrea _____ (ID No. P19333)

- Name and title of the accompanying person (講義補助者の職・氏名)
Kohei Sakanoue, Graduate Student (M2)

- Participating school (学校名): Numazu Higashi High School, Shizuoka Prefecture _____

- Date (実施日時): 18/06/2021 _____ (Date/Month/Year: 日/月/年)

- Lecture title (講義題目):
The long journey of electrochemistry

- 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) 20 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))
Projector _____

- Lecture summary (講義概要): Please summarize your lecture within 200-500 words.
The lecture began with my background information. I explained the students who I am, my country (Italy), and the studies I made, in particular about my university years. In this context, I introduced the University of Bologna, and the department of Chemistry "Giacomo Ciamician" where I graduated. I continued by explaining why it is important to know English to approach a scientific carrier, and more generally a scientific knowledge. I made this by referring to past scientific publications from notable scientists i.e., the laws of motion by Isaac Newton, and the invention of the pile by Alessandro Volta, to show how the language for communicating science evolved until nowadays. I explained the concept of intellectual curiosity and how this will end ultimately to knowledge accumulation, and that science is just one part of human knowledge. For this reason, a good scientist must not only excel in science, but in several field of human knowledge and acquire an interdisciplinary approach. After the description of several scientific fields, I introduced my research (electrochemistry) by showing the Nobel prize recipients who had contributed to electrochemistry advancement. From here, I explained how electrochemistry is affecting today's life: from energy applications with examples of fuel cells and lithium batteries, and clinical analysis

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with examples directly from my research field where I use electrochemiluminescence for sensor applications.

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

I really appreciated the warm welcome from the school, both professors and students. Furthermore, the lecture was conducted very professionally.

- 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。):

高校生が研究者、とりわけ外国人研究者、と接する機会は多くないと思うので、このような事業はそういった機会を増やす取り組みとして有意義であったと感じる。また、高校生側も英語で積極的に質問を行っており、講演者と聴衆の両方が熱意を持って取り組んでいたと感じる。