

Form B-2
(FY2022)
Must be typed

Date (日付)
16/11/2022 (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): William Howie (ID No. P21745)

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

Professor Atsushi Marui

- Participating school (学校名): Hibiya High School

- Date (実施日時): 14/11/2022 (Date/Month/Year: 日/月/年)

- Lecture title (講義題目):

Audio: Science serving Art

- 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) 60 min (分), Q&A time (質疑応答時間) 45 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 slide show (keynote) with audio examples played over speakers

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

Audio has been described as "science in the service of art." Immersive audio research is an interdisciplinary field that combines research techniques from the sciences, social sciences, and humanities, drawing from many fields, including: acoustics, electro-acoustics, physics, perception and cognition, signal processing, statistical analysis, computer sciences, sound scene analysis, and aesthetics. This lecture discussed my journey from the Canadian music and broadcast industries, where I worked as a Music Producer and Recording Engineer, to becoming a scientific researcher in the field of immersive 3D audio recording and reproduction. I hoped to show how we can use science to help create more engaging sonic art, and how musical art can be the inspiration for original scientific research. The first part of the lecture covered various facts about Vancouver (where I am from) and Canada. The second part described the role of a "recording engineer" in the music production chain, and how that career combines scientific and artistic knowledge. The third part described my current JSPS research in Japan, and several practical applications of that research that could be interesting to the students.

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

Many of the students had very impressive English language skills. Several of the students knew far more about the field of audio than I would have expected, and asked me some very interesting and thoughtful questions.

- Impressions and comments from the lecture assistant (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。):

今回の Howie 氏の講義では音楽の録音とそれに関わる研究事例の紹介が行われました。やや高度な内容ではないかと若干心配していたところですが、事前の周知により特に興味のある生徒さんが集まったためか、理解度もとても高かったように思います。高校までで音響という学問分野が取り上げられることはそれほど多くないため、私も今回のような機会が得られたことをとても嬉しく思っています。