

Form B-2
(FY2020)
Must be typed

Date (日付)
27 / 10 / 2020
(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): Ching, Ping Pui (ID No. P19402)
- Name and title of the accompanying person (講義補助者の職・氏名)
Mizuo Kajino 梶野 瑞王
- Participating school (学校名): Tokyo Metropolitan High School of Science and Technology
- Date (実施日時): 24/10/2020 (Date/Month/Year: 日/月/年)
- Lecture title (講義題目): A tale of aerosols, air quality and climate (エアロゾル、大気質、気候の物語)
- Lecture format (講義形式):
◆Lecture time (講義時間) 55 min (分), Q&A time (質疑応答時間) 25 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))
Online (using Microsoft Teams) with Powerpoint presentation
- Lecture summary (講義概要): Please summarize your lecture within 200-500 words.
1. Self introduction (自己紹介)
- I will introduce about Hong Kong.
 - Why am I interested in Science?
 - My experience when I was studying in USA.
2. Introduce about atmospheric aerosol, and why do we study aerosol?
(大気エアロゾルとは? なぜエアロゾルを研究するのか?)
- What is aerosol? Aerosol particles are suspended in the air. There are many different types of aerosol particles.
 - Aerosol particles are emitted both naturally (for examples, desert, ocean, volcanoes) and from human activities (for examples, factories, vehicles, power plants).

- Since industrial revolution (産業革命), human society have emitted a lot of greenhouse gases and aerosol particles. The Earth is becoming hotter.
- We study aerosols because it affects air quality, climate and human health.

3. Introduce the relationship between aerosol, air quality and climate.

(エアロゾルと大気質および気候の関係について)

- Aerosols affect Earth climate directly and indirectly. Directly, aerosol particles absorb and scatter solar radiation; indirectly, aerosol particles affect cloud formation and then affect climate.
- Aerosol particles, sometimes we called PM (particulate matter). We heard a lot of times PM2.5. Human can breathe in the PM2.5 and human health is affected. In cities, air pollution is serious.
- Climate change and air pollution both affect our lives.

4. Summary – science is interesting and important

(まとめ - 科学は重要かつ興味深い)

- Science is important in understanding the nature and modern society.
- Science is important to make our world safer, cleaner and fairer.
- Now, you are learning science and technology in school, which can contribute to science and a better world.

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

We played a short game in the beginning of the lecture, to get the atmosphere of the class warm. The students felt more relaxed after the game, and there were more interactions between myself and the students. Ms. Inoue (Teacher of Tokyo Metropolitan High School of Science and Technology) was very helpful in my preparation.

- 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。) :

高校生にも十分理解できる用語を使いながら、エアロゾル研究の最前線について網羅的に概説しておりました。日本語の単語を随所に交えながらゆっくりとした英語で話しており、リスニングが苦手な生徒にもよく配慮されていたと思います。全員参加型のゲームで盛り上がったこともあり、講義後に多くの質問が見られました。質問内容も、的を射ており、生徒達の理解度の深さが窺い知れました。