

(For JSPS Fellow)

Form B-2
(FY2018)Date (日付)
31/10/2018 (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): Ahmed Mohammed Nazem Elsayed Elreedy (ID No. P18061)
- Participating school (学校名): Kofu Minami High School
- Date (実施日時): 15/10/2018 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): Wastewater treatment technologies and potentials of energy recovery
- Name and title of your accompanying person (講義補助者 職・氏名)
Mr. Keigo Adachi (Master student, Yoshimura-Fujii lab, Department of Civil and Environmental Engineering, Tokyo Institute of Technology)
- Lecture format (講演形式): PowerPoint presentation
 - ◆Lecture time (講演時間) 80 min (分), Q&A time (質疑応答時間) 20 min (分)
 - ◆Lecture style (ex.: used projector, conducted experiments)
(講演方法 (例: プロジェクター使用による講演、実験・実習の有無など))
- Using the projector and blackboard (sometimes).
- Lecture summary (講演概要): Please summary your lecture 200-500 words.

The lecture was divided into two parts; the first included self introduction and insights into the research field, while the second included some basic knowledge about wastewater treatment and how to recover the energy from wastes. Through the self introduction, I gave the students a brief about my education history, my country "Egypt", including its location, language, important places and some Egyptian famous scientists/athletes. Then, I explained some major points related to the research field such as why and how we do research, in addition to gave examples about the motivations/achievements that could be obtained at the end. After a 10-minutes break, I started the second part of my lecture to demonstrate some basic knowledge about wastewater treatment technologies. Through this part, I introduced the significance of studying about water quality, and how it is essential for our life and surrounding environment. As well, I explained the different types of wastewater, and various technologies used to treat the contaminated water (e.g., physical, chemical, and biological methods). Then, as a motivation to give much attention to the renewable energy sources, I introduced about the high energy demand, with respect to the limitations associated with using the fossil fuels as energy source. One of the great alternative, besides the solar, wind and hydro energy, is harvesting energy from biomass. Meanwhile, I explained the basic information about how to convert our organic waste into energy.

- Overall advice or comments to future participants in the program (今後の講師へのアドバイス):

Some suggested points are as follow:

- Speak slowly.
- Try to attract the students attention, possibly, by discussing with them or give them exciting examples.
- The images and titles in your presentation are very important

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

None

- 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。)

日本語で失礼します。今回行った高校ですが、交通の便が中々不便でした。甲府駅から甲斐住吉駅という駅に行くのに、身延線という電車を使ったのですが、40分に一本というペースで電車が来るため、一つ逃すとかなり待つという感じでした。(行きも帰りも逃しました。)しかもICカードが使えないという駅であり、たどり着くまでの難易度が高かったです。そういった情報を前もって共有してほしかったと思います。少し贅沢を言えば、甲府駅まで車で迎えにきてくれたりすると負担が大分軽減されたかもしれません。

講義自体は非常に有意義な時間だったと思います。生徒は真面目に話を聞いていて、うなずいたりもしてたので、英語を理解していたのかなと思います。自分の仕事がありませんでした。強いて言うなら質疑応答がもう少し活発だと、講師も喜ぶと思います。こればかりはどうしようもないですが。

貴重な体験をありがとうございました。