

Form B-2
(FY2020)
Must be typed

Date (日付)
21/10/2020 (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): TAREQ AMEN (ID No. P19370)
- Name and title of the accompanying person (講義補助者の職・氏名)
MENG SUM (PhD Candidate)
- Participating school (学校名): Ikeda Junior-Senior High School
- Date (実施日時): 19/10/2020 (Date/Month/Year: 日/月/年)
- Lecture title (講義題目):
Urban Sewage Treatment and Anaerobic Digestion

- Lecture format (講義形式): PowerPoint Presentation
- ◆Lecture time (講義時間) 100 min (分), Q&A time (質疑応答時間) 10 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 LCD projector and visually showed the students some of our samples

- Lecture summary (講義概要): Please summarize your lecture within 200-500 words.
- Firstly, the lecture was started with introducing the students about my country Palestine and the main cultural differences between the Middel East and Japan. Moreover, I talked about how the foreigners live here in Japan.
- The technical part was started with giving some details about the importance of conserving the environment and what is the consequences of dumping the untreated sewage directly to the environment. The side-effect of enconomic growth of Japan without conserving the environment was explained by presenting some of photos of various rivers in Tokyo and Kitakyushu cities in 1970s.
- Afterward, briefly, the history of developing the sewer systems were presented, followed by more explentation about the water chain and sewerage network systems.
- Then the biological treatment technics were scientifically detailed and both organic and nitrogen matter removal steps from the raw sewage were precisely itemized.
- Subsequently, more detials were given about the anaerobic digestion processes and how it can be nauturally converts the sewage sludge in energy-rich biogas.
- The last part of the lecture was about my scientific research activities that I previosly did at the

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Kyushu University and what I currently doing under the JSPS postdoctoral fellowship at the University of Kitakyushu.

The application of nanotechnology in the methane co-generation processes was outlined and how can we get renewal biogas from salt-tolerant plants was also presented.

- 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。):

Dr. AMEN gave a very lively presentation, explains the profound lecture in a simple way. He motivated the students with the souvenirs to actively engage and interact with each other, resulting in a deeper understanding of the presentation. This project is definitely going to have a profound impact on the students