

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): Tonni Kurniawan (ID No. P12813)
- Participating school (学校名): Nanao Senior High School
- Date (実施日時): 23 August 2014
(Date/Month/Year:日/月/年)
- Lecture title: (in English) Tackling Environmental Pollution using Engineering Approach
(in Japanese) 工学的アプローチを用いて、環境汚染への取り組み
- Lecture summary (講演概要): Please summary your lecture 200-500 words.
In this lecture, I present a variety of examples concerning global environmental pollution problems partly due to overgeneration of solid waste and landfill leachate. To address this issues, various engineering approaches have been tested. However, none is universally applicable and highly effective. Recent progress in environmental technology has paved the way for novel solutions that potentially facilitate environmental remediation. A number of functional nanomaterials have been investigated for its technical feasibility and applicability. It is expected that the lecture generated scientific interests among the students regarding novel application of nanomaterials for promoting environmental protection.
- Language used (使用言語): English
- Lecture format (講演形式): 13.30-15.30
- ◆Lecture time (講演時間) 110 min (分), Q&A time (質疑応答時間) 10 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))
Ppt slides
- ◆Interpretation (ex.: assistance by accompanied person, provided Japanese explanation by yourself) (通訳 (例: 同行者によるサポート、講師本人による日本語説明))
Not applicable
- ◆Name and title of accompanied person (同行者 職・氏名)
Mr. Taketo Fujii (the host teacher)
- ◆Other note worthy information (その他特筆すべき事項):
The students were excited to learn applied-oriented problems outside their textbooks
- Impressions and opinions from accompanied person (同行者の方から、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。):

(For JSPS Fellow)

Form B-6

Questionnaire

Please fill out the following questionnaire so that we can take advantage of your impressions in enhancing the JSPS Science Dialogue Program.

1. What prompted you decide to participate in the “JSPS Science Dialogue” program?

I would like to share my research experiences on global environment to young students in Japan' senior high school and inspire them to pursue their future career in environmental research.

2. To what did you give greatest attention in preparing and giving the lecture?

Level of the student English and their familiarity with scientific terms in the field of environmental technology

3. Did you find it difficult to give a lecture in English to Japanese students? Yes, to a certain extent. In Japan, English is not their mother tongue.

Could you give some advice to future lecturers on how to facilitate communication with Japanese students? The ppt slides may need to be translated in Japanese text by the host teacher before the lecture and shared to students in advance.

4. Could you give your impression with regard to participating in this program?

This program is professionally undertaken at the Nanao Senior High School and the teacher could organize the lecture very well.

5. Was it meaningful in terms of your fellowship activities?

Yes, it was. I could be exposed to Japanese secondary education environment, while staying in Japan.

6. In what ways do you think the students benefited from the program?

The students could think complicated environmental problems outside their textbooks. It is expected that they may think globally and act locally to address the problems creatively.

7. Could you give some overall advice or comments to future participants in the program?

a. Future participants need to be aware if the students could follow their lecture due to communication problems with unique English accents among individual fellows.

b. Do not fill the ppt slides with text only. Please incorporate supporting figures. One picture could speak more than 1000 words.

We thank you again for your kind cooperation in this endeavor, and wish you every success in your important research.