

(For JSPS Fellow)

Form B-5

Date (日付) _____ (01/10/2015)

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) Mohammad Hussein Naseef Al Assadi (ID No. P13751)

- Participating school (学校名): Kyoto Prefectural Jonan-Ryoso High School

- Date (実施日時) (01/10/2015)

- Lecture title (講演題目): (in English) Australia and Renewable Energy

(in Japanese)

- Lecture summary (講演概要): Please summary your lecture 200-500 words.

The lecture started by giving detailed explanation about Australia that included a brief introduction to the Australian history, people and cities. In this section, I introduced every major city in Australia and the famous landmarks that identify the cities. Then, I proceeded to explain Australian nature and occasionally compare that to that of Japan to give the students a solid idea about the topic. Here, I also hinted how Australia produces energy for its industrial and residential consumption.

In the second section of the lecture, I shifted from introducing Australia to the scientific part of the lecture. My lecture was focused on the energy production in Japan and how Japan was mainly dependant on imported oil and nuclear generated electricity to run the cars and its factories and light up its houses. I gave a detailed explanation how the nuclear and fossil fuels are produced and why they can be both very expensive, limited and harmful to the nature. I paid special attention to carbon dioxide emission and how that is related to climate change. Then I proceeded with giving example of substitute renewable energies that can replace the fossil fuels and nuclear energy. The list included: solar energy, wind energy, tidal energy, geothermal energy and thermoelectric energy. After this, I presented what is the physical principles behind the operation of each of these renewable energy sources and what were the pros and cons. Finally, I concluded the lecture by an ample of questions and answers session.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 60 min (分), Q&A time (質疑応答時間) 30 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))

Powepoint slides, frequent quizzes and emphasis on two way communication wiht the students.
No experiment was conducted.

- ◆ 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))

No accompanying person

- ◆ Name and title of accompanied person (同行者 職・氏名)

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- ◆ Other note worthy information (その他特筆すべき事項):
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- 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。):