

(For JSPS Fellow)

Form B-5

Date (日付)

11/09/2016 (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): ANWAR, Muhammad Shahbaz (ID No. P14329)

- Participating school (学校名): Jonan Ryoso High School (Uji-city, Kyoto)

- Date (実施日時): 23/09/2016 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English) Superconductivity and Ferromagnetism

(in Japanese)

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

On 23rd of September, I delivered a lecture at Jonan Ryoso High School titled "Superconductivity and Magnetism". I divided my lecture in three main parts. First, I introduced myself and my country Pakistan (Culture). I also tried to explain the students, why I selected to be a scientist. In this way, I motivated the students toward science and technology. In the second part, I explained about conductivity, superconductivity, and magnetic properties of magnetic materials. Of course, there were many technical terminologies those were translated into Japanese language by my assistant Mr. Masano Kunieda (M-1 student from our laboratory). In fact, we prepared a list of important terminologies and distributed it in the class before the lecture. In fact, my main research work is dealing with these two main phenomena. After this part of my lecture, I gave 15 minutes to the students to ask the questions. It was really interesting that some students asked questions. I also allowed them to ask me in Japanese, science my assistant was there to translate for me. At the end of the lecture, I gave an experimental demonstration of superconductivity, using high temperature superconductors, magnets and liquid nitrogen. I showed them the magnetic levitation and how we can use this phenomenon for practical applications for example levitating trains. I also demonstrated the condensation of Oxygen gas.

- Language used (使用言語): English (My assistant Mr. M. Kunieda explained some technical terminologies in Japanese)

- Lecture format (講演形式):

◆Lecture time (講演時間) 60 min (分), Q&A time (質疑応答時間) 15 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))

We used projector for lecture. We also gave a demonstration for 35 min

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- ◆ 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))

My assistant explained some important and technical terminologies in Japanese

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

Masano Kunieda (M-1 Student)

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

- 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。):