

(For JSPS Fellow)

Form B-5

Date (日付)

30/01/2015

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): JATISHKUMAR (ID No. PU14011)

- Participating school (学校名): Wakayama Prefectural Tanabe High School

- Date (実施日時) 29/01/2015 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): Light Emitting Nanomaterials: Science of the Small

(in Japanese)

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

I started the presentation by introducing myself and my country to the students. Through the presentation, I tried to motivate the students into the field of science and an attempt was made to explain to the students the route through which a career in research can be pursued. I tried to give a brief outline of my country, India, highlighting on how the features are different from Japan and the rest of the world. Photographs of few important places in India were shown for the students to visit in future, if they were interested in.

The main aim of the presentation was to give a very basic introduction to the world of Nanomaterials. The lecture started by introducing the term Nano, and how the nanomaterials are different from the macro scale materials. The history of nanotechnology and the use of nanomaterials in the past was explained. I tried to briefly touch up on the importance of nanotechnology in the miniaturization of devices. The classification of nanomaterials and the basic methods adopted for their preparation was also demonstrated. The samples of different types of nanomaterials was shown to the students under visible light and ultra-violet light (for fluorescent samples). Method adopted for imaging the nanomaterials using special microscopes were also introduced. I tried to briefly touch up on the work that I do in my laboratory currently. Finally, the application of nanomaterials in different fields of science and our day-to-day life was explained. Few slides which involved scientific terminologies new for the students were translated to Japanese by my labmate who accompanied me. Altogether, I tried to give a glimpse on the emerging world of nanotechnology to the students.

- Language used (使用言語): English

- Lecture format (講演形式):

- ◆Lecture time (講演時間) 40 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))
Power point presentation using a projector; displayed few samples of nanomaterials
- ◆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 labmate accompanied me for traslation of the subject to Japanese
- ◆Name and title of accompanied person (同行者 職・氏名)
Mr. Yuki Imai, Master student – Nara Institute of Science and Technology (NAIST), Nara
- ◆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。):

The presentation was simple and easy to understand even though it was little lengthy. The technical terms and other terminologies could be understood through the translation to Japanese by the accompanying person.