

Form B-5

Date (日付)

23日/02月/2012年 (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): Denis Damiron (ID No. **P11711**)

- Participating school (学校名): Fukui Prefectural Fujishima Senior High school

- Date (実施日時): 18日/02月/2012年 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English) Nanotechnology: research and technology at atomic and molecular scales.

(in Japanese) ナノテクノロジー : 原子や分子のスケールにおいて自在に制御する技術のことである。

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

The aim of the presentation was to explain to the student that the world as they know is completely different at the nanometer scale. I also would like to present them the advantages of conducting research in foreign laboratories and in multidisciplinary research environments.

First, I presented my home country and my previous background in France. I briefly presented my previous stays in England and USA. Then I focused on my current research in Japan. I listed the advantages of being involved in a multidisciplinary research environment. I explained in more details my topic concerning the detection and measurement of molecular vibrations and nanometric oscillators and why it is good to have the opportunity to interact with chemists, electronics engineers, biologists and physicists within the institute. We then conducted a 15 min interactive experiment with a large demonstration model of Atomic Force Microscope in order to explain the operation of the AFM instrument for imaging, measuring, and manipulating matter at the nanoscale. I concluded the presentation by telling to the students that according to my own experience, spending time abroad and learning foreign languages can be something very beneficial both for their future scientific career and personal life.

Q/A session: We discussed about the qualities that make a good scientist, how to become a scientist and how the life of a researcher is. Because the students have planned to visit a lab in France the next month, they asked me to teach them some useful words and expressions in French. I was really impressed by their strong interest and level in Science and their curiosity for different cultures.

- 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) 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))

I used a projector and carried out a 15 min interactive experiment with a large demonstration model of Atomic Force Microscope in order to explain the operation of the AFM instrument for imaging, measuring, and manipulating matter at the nanoscale. _____

◆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))

I provided Japanese translation for technical words and I tried to illustrate the main ideas with photos and short videos in order to make the interpretation easier. The two teachers from the High School made some translations when it was needed and were really helpful.

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

◆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。):

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