

(For JSPS Fellow)

Form B-5

Date (日付)

2018-02-05 (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) : Jean-Baptiste VANEY
(ID No. 19706)

- Participating school (学校名): 東京都立戸山高等学校

- Date (実施日時): 19/01/2016 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): The reality of a researcher and principle and applications of thermoelectricity

- Name and title of your company (同行者 職・氏名)
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- Lecture format (講演形式):

◆Lecture time (講演時間) 80 min (分), Q&A time (質疑応答時間) 40 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))

Powerpoint presentation with projector + small experiment

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

My talk was divided in four parts. I first spoke about my country (while asking them what they knew about it) and my town and region of origin before explaining my curriculum, to make clear how I got to be a researcher today. I then questioned them about what is science for them and how they represent it, so we could discuss about the scientific methodology and why I like science. Then I switched to my research topic, which is thermoelectricity. After describing the basic principles of thermoelectricity, we gathered so I could show them a basic experiment where I would produce electricity using thermoelectric modules, hot water and cold water. I asked them to how they thought they could use thermoelectricity as applications and after discussing their good ideas, I showed them how it was actually used. Then, I explained them about my working environment in Japan, and what is really my all-day life, as there are many misconceptions about the life of a scientist. So I explained that the scientific work is not only experiments but that the communication part of it is also essential. All being done in English at conferences or for publications, I insisted that learning English is extremely important (and not only for science).

- Overall advice or comments to future participants in the program (今後の講師へのアドバイス):
Learn Japanese and do not talk too much about scientific facts but focus also on the reality of a researcher's all-day life and try to convey why you like research and how it is not only your job but a bit more. Also I think it is very important to have them participate during the talk by organizing some discussion moments where they have to think about something.

- Other noteworthy information (その他特筆すべき事項):

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- Impressions and opinions from a company (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。)/