

(For JSPS Fellow)

Form B-5

Date (日付)

18.12.2013 (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): SCHMIDT, Marek Edward Thomas (ID No. P12719)

- Participating school (学校名): Kanazawa University Fuzoku High School

- Date (実施日時): 17.12.2013 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English) My career in 独, 英, 日 and graphene research

(in Japanese) ドイツ、イギリス、日本での私のグラフェン研究

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

The lecture was divided into four parts. The first part was a general introduction of myself and Germany. Then, I explained about my education (school, graduate study) in Germany explaining the differences to the Japanese education system. In this part I also explained about MEMS/NEMS and its applications (my major for my graduate study). The third part was about my PhD study in the United Kingdom. Again, I gave a short introduction about the UK and the education system there, followed by an introduction to graphene and my PhD research. I also explained what research and PhD is. The final part of my presentation was about my JSPS postdoctoral fellowship and life in Japan. I explained why I decided to apply for the postdoc and how the application process was, with some general notes about international applications. After an explanation about JAIST, my host institution, I concluded with my current research. I closed the presentation with a slide encouraging students to consider going abroad in the future and giving some advice for doing so.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 90 min (分), Q&A time (質疑応答時間) 20 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))

Used projector and laserpointer. No experiments.

◆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))

Assistance by accompanied person

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

Prof. Hiroshi Mizuta, Prof. Yukiko Yamada-Takamura

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

The presentation was in front of 120 students.

- 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。):

Prof. Mizuta:

"Dr Marek Schmidt's talk was organized very well and was accepted by the students successfully. He first talked about his academic career in Germany, UK and then Japan with intriguing analysis of the difference in culture and education among three countries. Apparently this part of his talk promoted students' interests in the life and study abroad, so he received quite a few questions during his talk as well as the break time. This was followed by the technical session on his current research on state-of-the-art graphene nanotechnologies which also stimulated students' scientific/engineering interests. Overall his presentation was beautifully prepared and his speech in English was exceptionally clear. Just one comment for the future events is that the hand-outs should be provided to the students in advance which should improve students understanding."

Prof. Yamada-Takamura:

"The talk was extremely well-structured and well-prepared, and I saw that the students got very interested by the different educational systems and cultures in foreign countries.

I was sitting with the students, and I heard a lot of responses to the questions he has asked them.

I wish those students to have enough courage to stand up and speak out their opinions, but probably it is difficult to do so among 120 peers. The dilemma is that if we select small number of students (perhaps 20), we can have this talk in a more interacting and intimate way, but then the rest of the students lose their chance.

In any case, Science Dialogue is a rare opportunity for students to listen to the voice of a scientist who are relatively close in age, and I hope this activity will continue to inspire Japanese highschool students."