

(For JSPS Fellow)

Form B-5

Date (日付)

28/10/2014 (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) : Bernd Martin Michael Schmidt
(ID No. P14744)

- Participating school (学校名): 愛知県立岡崎高等学校

- Date (実施日時): 27/10/2014 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English) JSPS Science Dialogue Lecture Part 1: Origin & Motivation; JSPS Science Dialogue Lecture Part 2: Supramolecular Chemistry

(in Japanese) - _____

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

The lecture was divided into two parts, to make it easier for the students to understand each part. Therefore the teacher and I decided to do two lectures, each 45 min, followed by 15 min Q&A time and a short break. The first part was about my origin and motivation, so I first introduced myself briefly. Then we had a look where Germany is located in the world, including an introduction of the European Union. We discussed facts about Germany including the rich history of Germany as well as famous historical people from Germany. This was mostly illustrated using many pictures and helped the students to follow my talk. Then we slowly switched the focus to my hometown Berlin. It's historical background such as the Berlin Wall and the fall of the Berlin Wall in 1989 were again presented by pictures to the students. We slowly switched to science as I introduced Berlin's two most famous universities, which I both had the pleasure to work at. The focus was slowly switched to the abundance of science in daily life, which was exemplary illustrated on several examples taken from the daily life of the students. The examples "why is the sky blue during the day and red in the evening" and "the autumn color leaves change" were chosen to connect the students via simple but fascinating phenomenas, that are observed by them every day. I explained why the work of scientist is fascinating and important and why I wanted to become a scientist.

The second part of the lecture was about my most recent research in the field of supramolecular chemistry at the University of Tokyo. I explained this rather novel field of chemistry by comparing it to other fields and gave model kits to the students to experience "self-assembly" themselves. After that, we had a look at self-assemblies of the group of Fujita, which I presented to them and we compared our actual results with some of the models that the students made. Further

examples from our group were illustrated, showing the latest research in this field.

- Language used (使用言語): English and some little Japanese

- Lecture format (講演形式):

◆Lecture time (講演時間) 90 min (分), Q&A time (質疑応答時間) 30 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, brought molecular model kits from the lab

◆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))

provided Japanese explanation by myself

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

none

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

none

- 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。):

none