

(For JSPS Fellow)

Form B-5

Date (日付)

15/11/2015 (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): Rong-Jia Wei (ID No. P14337 )
- Participating school (学校名): Seishin Gakuen High School
- Date (実施日時): 31/10/2015 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): (in English) Molecular Switches: Multi-bistable Metal Complex  
(in Japanese) スイッチング分子: 多重双安定性金属錯体

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

Firstly, I would like to say thank you to JSPS for giving me a great chance to give a presentation to high school students on recent advance of coordination chemistry and my own research on bistable switching molecules. I also appreciate Seishin Gakuen High School who give me great welcome when I arrive at the high school. In my presentation, I firstly gave a brief introduction of China, the country I came from. The geography, population and language in China were introduced. Specially, the four great inventions from ancient China (compass, printing, gunpowder, papermaking) were shown. Then, I focused on the importance of science (particularly that of chemistry), and why I became a scientist. I compared the scientists and research environment in China and Japan and shared my research in these two countries. I am working at metal complexes with bistable switching behavior which is one of the most exciting challenges in molecular material science. I tried to explain the idea of "bistable" to the high school students with easy understanding English and translated to Japanese by myself. After the introduction of the brief understanding of molecular switching, I discussed my own research, of which aim is to create systems that exhibit multi-responsive phase transitions coupled with phase-specific magnetic and electronic properties. After the lecture, the students asked me a few questions about my dream and my favorite subject when I was a high school student. We also discussed Why is there magnetism on earth. I hope my lecture would inspire the students to pursue scientific research.

- 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))

Powerpoint presentation with projector

- ◆ 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))

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。):