

(For JSPS Fellow)

Form B-5

Date (日付)

25/10/2104 (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): CHANG Tsung-Che (ID No. P13329)- Participating school (学校名): Ichikawa high school- Date (実施日時): 17/10/2014 (Date/Month/Year: 日/月/年)- Lecture title (講演題目): (in English) General Chemistry and It's Application(in Japanese)

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

Chemistry covers everything in our life and creates lots of substance for improving people's life more convenient. Understanding the concept of chemistry is very helpful for us to know and explain the phenomenon of life event. In general speaking, chemistry usually can be conveniently categorized into four subjects, which are organic, inorganic, analytical, and physical chemistry. In analytical chemistry, we can learn the detailed theory and practical skills of purification methods. Moreover, we also realize and know how to operate the analytical machine such as High performance liquid chromatography (HPLC) and liquid chromatography-mass spectrometry (LC-MS). In physical chemistry, chemical molecule's behaviors could be understood well. After learning organic and inorganic chemistry, we can differentiate the differences and characters between organic and inorganic compound. And then, we will know how to synthesize and make different kinds of chemical substances, such as medicines, cosmetic products, new type of material and so on. Finally, the latest technology in carbohydrate chemistry and design of anti-cancer vaccine based on tumor-associated carbohydrate antigen will be understood through the introduction of my research. Through the lecture, we could realize the fundamental concepts of chemistry and know it's practical application in industry and life.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 70 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))

Used projector and chalkboard writing.

◆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))

No interpretation.

Must be typed

◆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。):