

(For JSPS Fellow)

Form B-5

Date (日付)

18/12/2016 (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): Jacky C.-H. Yim (ID No. P 16749)- Participating school (学校名): Nirasaki High School- Date (実施日時): 17/12/2016 (Date/Month/Year: 日/月/年)- Lecture title (講演題目): Synthetic Chemistry and Catalysts: Using "Tools" to Make Chemicals
(in English)

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

In this lecture, I tried to provide a relaxed atmosphere to have a conversation with the students, while aiming of better connecting with them. As such, I started the lecture with an introduction of myself, my country of origin (Canada) and why I choose science. Furthermore, this lecture was done in a western style, as I targeted this lecture to be understandable by all attending students. A short introduction about chemistry and synthetic chemistry, (such as what it is, why we need it and what do we do) was given. In particular, catalysis was introduced and its composition, importance, uses and modulations were explained. A demonstration (small-scale elephant toothpaste experiment), guided by me but done by a volunteer from the audience, was used to exemplify its use and ease of experimentation. Next, that work I have done at ITbM to develop novel catalysts to make new and biologically active compounds was briefly presented. Step-by-step guide was given as to how a compound is made was presented; starting from starting material to reaction to isolation to identification. To exemplify isolation by chromatography, demonstration with watercolor pen and paper chromatography was used. Lastly, to improve student attention, a short quiz was given at the end in a guise of a game. The lecture was concluded with a few words of encouragement and with a take home message of even if you meet failure, to never stop trying.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 60 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))

PowerPoint with demonstrations

◆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))

Nirasaki High School English Teachers

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

N/A

◆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。): N/A