

(For JSPS Fellow)

Form B-5

Date (日付)

18/1/2018 (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): Ena High School

- Date (実施日時): 17/1/2018 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): Catalysts: What, Why, and How? New Palladium Catalyzed Reactions to Synthesize Interesting Molecules.

- Name and title of your company (同行者 職・氏名)

Institute of Transformative Bio-Molecules (WPI)

- Lecture format (講演形式):

Lecture time (講演時間) 35 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))

PowerPoint

- 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 and my country of origin (Canada). 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 catalysis was given, in particular, its importance and uses were emphasized. A basic explanation on how catalysts work was given using an analogy and animated graphics. This was followed by the introduction of cross-coupling catalysis, first why it is important, its definition and how we use it in chemistry was presented. Next, the work I have done at ITbM to develop novel catalysts to make new and biologically active compounds was briefly presented. Here the students were able to choose either having a more theory focused talk (the chemical details that I work on) or a more practical one (how generally I complete my reactions). The students chose the latter. And so, 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. The lecture was concluded with a few words on why I choose science, words of encouragement and with a take home message of even if you meet failure, to never stop trying.

- Overall advice or comments to future participants in the program (今後の講師へのアドバイス):

This program is excellent and I would highly recommend participating in this program. However, the English level is typically low so you must speak slowly and clearly, as well as, trying to use smaller and easy to understand vocabulary. Having an interrupter present with you really helps.

- Other noteworthy information (その他特筆すべき事項):

Following my lecture, I listened to the students give presentation on their research and provided critical comment, suggestions and questions.

- Impressions and opinions from a company (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