

(For JSPS Fellow)

Form B-5

Date (日付)

15/06/2015 (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): Christopher Vavricka (ID No. P14392)- Participating school (学校名): Tondabayashi High School- Date (実施日時): 08/06/15 (Date/Month/Year: 日/月/年)- Lecture title (講演題目): Science for Everyone(みんなのための科学)

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

My lecture consisted of 5 parts. The first 4 parts were presented in English over 45 minutes with the aid of PowerPoint slides. The lecture began with a self-introduction explaining how I ended up as an American Scientist working in China and Japan. The second part included a brief history of science, contrasting ancient knowledge to the development of modern science. The third part of the lecture included some interesting science examples that I hoped would spark new interest into science. I covered a gene therapy experiment performed in Monkeys, some interesting molecular structures and the famous double-slit experiment. The last part of the oral lecture covered some applications of science for non-scientists, including aspects of health, art and the environment.

The final part of the dialogue included 7 experimental demonstrations. The first two experiments, yeast fermentation and silver nitrate precipitation, had to be started at the beginning of the lecture because they take longer to complete. The next three experiments, a can crushing thermodynamics experiment, a hydrogen peroxide degradation reaction and adsorption of water with sodium polyacrylate, were also performed by student groups. The last two reactions involved a copper color change reaction and the Briggs-Rauscher color change reaction. At the end of the session we had some extra time for students to ask questions.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 120 (分), Q&A time (質疑応答時間) 10 (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))

45 minutes oral lecture with PowerPoint slides, followed by 75 minutes of fun experimental demonstrations and group experiments.

◆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))

A Masters Student from our lab, Chiaki Muto, helped interpret to Japanese.

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

Chiaki Muto

◆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。): 貴重な経験をさせていただきありがとうございました。本講演の準備、改めて科学の