

(For JSPS Fellow)

Form B-5

Date (日付)

15/09/2013 (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): HSIAO Amy (ID No. P13049)- Participating school (学校名): 筑波大学附属駒場中・高等学校- Date (実施日時): 14/09/2013 (Date/Month/Year: 日/月/年)- Lecture title (講演題目): (in English) Modeling the Human Body(in Japanese) 人体のモデル

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

In the first section of the lecture, I introduced myself and introduced the countries that I have lived in before (Taiwan and America). In addition to the basic information (size, location, population) regarding Taiwan and America, I also introduced the foods, culture, and attractions in these countries. The second part of the lecture consists of a few slides outlining the events that made me become interested in science. In the last part of the lecture, I introduced my research—Biomedical Engineering. The main scientific concepts I explained include biology (cell, tissue, and organism), the “micro” scale, microfluidics, and laminar flow. I further gave a few examples of why and how biomedical engineers can utilize micro-technologies to model different parts of the human body. Some examples include models for blood vessels, nervous system, muscles, reproductive system, and lung. During the presentation, experimental video clips were shown to provide the students with an idea of how the samples actually look like. In addition, actual microfluidic devices and materials used in the experiments were passed around the class so students can see and feel the devices used in real experiments. Finally, the impacts of being able to model the human body parts more accurately were explained.

- 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 video clips, and passed around experimental samples

◆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))

Provided Japanese translation of key words, and explained using easy English

◆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):

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。):