

(For JSPS Fellow)

Form B-5

Date (日付) 07/1/2014

(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) : Mridul Kanti Mandal
(ID No. P13034)

- Participating school (学校名): Hikawa High School

- Date (実施日時) : 5/12/2013
(Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English) Mass Spectrometry as Excellent Research Tool
(in Japanese) 素晴らしい研究ツールとしての質量分析

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

I have started my talk with introducing myself and why and how I came from engineering to science. I have also introduced my country's foods, cultures, natural resources, animals, forests, rivers, sea and popular visiting areas which were very useful for the students to know my country. I have also explained the diplomatic relation between my country and Japan. Later in academic part, I started with the history of mass spectrometry and how the concept was born. I have tried to give them the philosophical impression of this field. I have also informed them five Nobel Laureates in this research area including a Japanese Scientist. I have followed the discussion on the connection of their work with my research in a very simple manner. I have demonstrated my host laboratory and why I came here and how I normally work. I have also reported many popular developments around the world which have the similarities with my and JSPS host's research. I have discussed all important things with the videos which were very useful and fun for high school students to understand very complicated and sophisticated subjects. I have also explained what are still needed to develop and the beauty of this science but not in details. In the conclusion part, I have tried to encourage the students to come in this research field for their higher studies where they would be benefited from studying chemistry, physics, mathematics, biomedicine and engineering to solve the health related problems of human beings and other living systems.

- 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) 15 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)) Projector and videos in microsoft power point

◆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))

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

Rio Takaishi, PhD student,

University of Yamanashi

◆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。):

高校生が英語で、しかも授業では聞いたことのない内容のプレゼンテーションを聞き取り理解することはとても難しいと思います。よほど英語が得意な生徒でも専門用語も多用されているので例外ではないと考えます。しかし、マンダラ博士のプレゼンテーションではわかりやすい単語を用い、ゆっくり話すことで聞き取りやすかったと思います。身近な物質を例にあげることで難しい内容を臆することなく聞くことができたと思います。プレゼンの中には写真やムービーをふんだんに取り入れてあるためみんな飽きずに講義に集中していました。この機会を通じて、高校生の科学に対する関心、英語能力の向上意欲増進につながり、未来を担う国際的に活躍する人材の育成の礎に少しでも貢献できたと思います。