

(For JSPS Fellow)

Form B-5

Date (日付)

20/2/2015 (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): _____ (ID No. P
14777) Roger Haeusermann

- Participating school (学校名): Hamamatsu Kita High School _____

- Date (実施日時): _____ (Date/Month/Year: 日/月/年)
13/2/2015

- Lecture title (講演題目): The Fantastic and Flexible Future of Organic Electronics

(in Japanese)

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

The lecture had three parts: My home country, myself and my research.

In the first part Switzerland and its geographical peculiarities are presented. Even though Switzerland is rather small due its officially used 4 languages it is culturally rich. This diversity also led to a democratic systems where every citizen is involved in drafting new laws. This democratic system led to a very successful economy where some of the largest companies in the world started from Switzerland.

In the second part about my way to science I show how my educational pathway, which is not so direct and has some detours. These "detours" helped my to have a bit a broader background compared to other students, from which I still profit even nowadays. Then I present the daily routines of a scientist and the path from an initial idea to doing the research and finally publication and presentation at conferences. Additionally, I discuss my many hobbies and how they influence my research.

In the last part about my research I give a background where organic electronics is already used in consumer products. And what fundamental questions are still unanswered even though the investigated materials are widely used. I then introduce how a Field effect transistor works and why it is useful. In the end I show, how different research fields, namely chemistry, material science, physics electrical engineering, are working together to tackle these questions and what future products might come from this collaboration.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 45 (分), Q&A time (質疑応答時間) 45 (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))

I only used the projector _____

◆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))

My colleague helped to translate some of the questions from Japanese and answered many questions in the Q&A session directly in Japanese. _____

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

Junshi Soeda _____

◆Other note worthy information (その他特筆すべき事項):

Soeda san gave a short presentation about the University of Tokyo and how the education works here. The students were very interested in this part as well. _____

- 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。):

・自分の高校時代にはこのような事業がなかったので (少なくとも私の高校では行われませんでした。)

このような経験ができる中高生が今以上に増えるとよいと思いました。

・講師向けに、過去の授業の事例等の具体的なインストラクションの冊子などがあるとより準備がしやすいと思いました。