

(For JSPS Fellow)

Form B-5

Date (日付)

01/12/2014 (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): Sebastian Diebold (ID No. P14 701)

- Participating school (学校名): Mizusawa High School, Iwate

- Date (実施日時): 28/11/2014 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English) Electrical engineering – have fun with building your own devices and travelling the world

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

Electrical engineering – have fun with building your own devices and travelling the world

Electrical engineering – what is this? It is two words: electrical and engineering. Let's start with the second word. Engineering. An engineer is a person that applies scientific knowledge, combines it with his or her own ideas to create something new, something, which can help to make everyday life easier, more pleasant or create new possibilities. Flying for example, or the automobile. These are achievements of engineers. The second term, electrical, defines the area in which the engineer is educated and working. Radio, television, computers or power distribution, these are achievements of electrical engineers. If you become an engineer, you will learn how to build new systems, make new things that maybe have the power to change the world.

My personal focus is circuit design for high frequencies. At high frequencies, for example around 300 GHz, systems with outstanding properties can be built. They allow you to detect a needle in a haystack, and to transfer a blueray disc within seconds on your mobile phone. I find that fascinating.

On top of that, you can travel the world. You will go on conferences and meetings, which are in Asia, America, Europe, everywhere. Engineering brought me from Germany to Japan. For me, this is quite exciting. In my presentation I will introduce myself and my home country. I will try to show you what engineering means for me. To help me with that, I will bring along a radar system for demonstration.

- Language used (使用言語): english

- Lecture format (講演形式):

◆Lecture time (講演時間) 60 min (分), Q&A time (質疑応答時間) 30 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))

Computer with Powerpoint slides and projector. Conducted 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))

Q&A was translated by Mr. Hideharu Sakamoto, Mizusawa High School

◆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):

N/A

- 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。): N/A