

(For JSPS Fellow)

Form B-5

Date (日付)

18/11/2015 (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): Ernst David Herbschleb (ID No. P14797)

- Participating school (学校名): Hikawa High School

- Date (実施日時): 24/9/2015 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): Life at the edge of technology (in English)

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

Computers have changed life since their invention. Decennia ago, it was quite rare to have a computer at home. However, nowadays, the computer inside everyone's mobile phone is much more powerful than those old computers. Currently, computers use binary processors for operation. A future approach focuses on using quantum mechanics to create a quantum bit that potentially can solve certain problems much faster. My research involves creating the building block for such a quantum processor.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 80 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))

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))

Assisted by Japanese student

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

Tomohiro Noguchi

◆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。)