

(For JSPS Fellow)

Form B-5

Date (日付)

28/09/2016 (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): **Thierry Nicolas Jean FOUQUET** (ID No. **P15344**)
- Participating school (学校名): **Ibaraki Prefectural Takezono High School**
- Date (実施日時): **28/09/2016** (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): (in English)

The "Whys and Wherefores" of being a scientist – Why ? How ? What ? (And to follow ?)

(in Japanese) **N.A.**

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

This 45 minute talk is aiming at answering the four questions any student interested in scientific jobs should ask him/herself: why becoming a researcher, how to do it, an example of research topic and some plans for the future. The outline consists consequently of four parts: **Why ? How ? What ? And to Follow ?** based on my own background. The emphasis is put on the first two parts (Why and How) as the most difficult to figure out or to find information about. Using as much pictures and amusing references (e.g. Japanese anime) as possible, a couple of reasons for me to become a researcher are listed (the possibility to travel, the pleasure and time spent to write articles and becoming an author, the interconnections of Science, Art and Humanities...). The "How" section presents a typical curriculum (Engineering school and Master of Science (MSc) in France, Doctorate (PhD) and post-doctoral position in Luxembourg), presenting a few issues I faced. The research topic being slightly abstruse (namely "mass spectrometry for the characterization of polymers", i.e. highly specialized analytical chemistry) a few slides only present a brief overview and the very basics of the technique I am using on a daily basis. An example of one current application I am working on is also presented and serves of example for the "funnel-ike" character of Science nowadays, i.e. its high level of specialization. The "And to follow" section is a five-slide short digression about some potential plans after my current post-doctoral fellow position. An additional "Last Hurrah" part consists in a few hints I personally think of as essential (importance of a network, of a satisfactory written/spoken English, of moving abroad...).

(this abstract has been distributed to the students)

- Language used (使用言語): **English**

- Lecture format (講演形式):

◆Lecture time (講演時間) **45 min (分)**, Q&A time (質疑応答時間) **10 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 only (slide show), no 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))

Introduction by the teacher, explanation of some "technical" points (educational system, scientific topic) by the accompanying person.

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

Dr. Sato Hiroaki (Host Researcher)

◆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。):

本事業は、外国人研究者の講演を聞くことによって、高校生が将来の進路決定や人生を考えるうえでよい機会を与えるものであると思う。講演では、多くの生徒たちが熱心に話を聞く姿が見られ、さらに英語で質問するなど、良い影響を与えられたのではないかと感じた。また、フェローにとっては日本の教育現場を体験する機会となった。本事業は、国際交流や人材育成に極めて有用であると思われ、今後も継続していただきたい。