

(For JSPS Fellow)

Form B-5

Date (日付)

07/11/2016 (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): SYLVAIN MEZIL _____ (ID No. P16063 _____)

- Participating school (学校名): Iwate Prefectural Kamaishi High School _____

- Date (実施日時): 14/10/2016 _____ (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English) New Opto-acoustic methods for non destructive testing and material characterization

(in Japanese) /

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

I firstly presented the cities in France I've lived in (Lautrec, Toulouse, Le Mans and Paris) and explained the studies I have done during my degree courses as well as some differences with the Japanese educational system (for example there is in France special preparation schools to succeed in exams for entering Engineering schools. The latter are independent from University courses).

Then I explained how is my everyday life as a researcher and the advantages and drawbacks, in my opinion, of doing a career in research.

After that, I then made a rather long introduction on acoustics (basic principles, the different fields of studies, the different acoustic waves, the advantage and drawbacks of acoustics, why studying acoustics, etc.).

In a second part, I explained with more detailed how we can generate acoustics waves with lasers as my work involve laser ultrasonics, both with continuous laser and pulsed laser. Then, I detailed the work I did during my PhD (crack detection and characterization with a nonlinear method that I developed), my first post-doctorate in Paris (characterization of adhesion between two plates glued together with the use of Zero-Group Velocity Lamb modes) and my second post-doctorate in Japan (observation and control of various whispering gallery modes in a microscopic disk resonator with a femtosecond pulsed laser).

- Language used (使用言語): English _____

- Lecture format (講演形式):

◆Lecture time (講演時間) ~100 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))

I only used projector as I couldn't perform experiments of what I do research. I did included videos and music of acoustic phenomena within my slides too.

◆ 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))

No

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

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

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- 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。):

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