

(For JSPS Fellow)

Form B-5

Date (日付)

31/07/2015 (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) :GIMBERT FLORIAN\_\_\_\_\_ (ID No. P13351)

- Participating school (学校名) : Fukui Prefectural Takefu High School

- Date (実施日時) :14/07/2015 (Date/Month/Year:日/月/年)

- Lecture title (講演題目) : (in English) A Journey to the Nanoworld

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

In my lecture, I have first described my country with comparisons to Japan and also the different places where I lived to show the diversity of landscapes and towns (from small village to important city) in France. I also explained the french educational system and difference with japanese system with practical examples like the last national examination in philosophy. I described too the life in a french high-school and gave the explanation of the name of my high-school coming from a very famous scientist.

In the second part of my lecture, I gave to the students a global view of the computational materials science. For that, I explained what is a supercomputer with the example of the K computer in Kobe and with comparison with personal computer used by students. I described also the wide diversity of applications of computational science with short movies and moved finally on my field, computational materials science. My main objective was to give to the students a survey of nano world : what is it, what are the nanomaterials, what are their properties. I used a very easy example, the lotus effect which can be seen at the macro scale but with an explanation at the nanoscale. I described also the carbon nanomaterials with graphene, carbon nanotubes and fullerene. I explained why the size of the materials is important to obtain new properties. Finally I described my actual research, how I work in collaboration with my experimentalist co-workers and the researcher life with international papers and conference given in English.

- Language used (使用言語) : English with a little Japanese

- Lecture format (講演形式) :

◆Lecture time (講演時間) 90 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) )

Presentation shown using a 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))

At regular intervals an accompanying person (Prof. Y. Yamada-Takamura) summarized in Japanese what it has been said

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

Prof. Y. Yamada-Takamura

- ◆ 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。):

I could see from the students' reaction that Dr. Gimbert's talk ignited their interests towards France and the people living there. I am pretty sure that some of them, in the near future, will choose to go there for study or vacation.

It was really nice to see the students making efforts to ask questions in English so that they can communicate directly with Dr. Gimbert.