

(For JSPS Fellow)

Form B-5

Date (日付)

02/03/2018 (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): ALEJANDRO LÓPEZ MORENO (ID No. P17035 )

- Participating school (学校名): Yamashiro High School, Kyoto

- Date (実施日時): 24/02/2018 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): Functionalization of Carbon Nanotubes and a Study of Their Properties

- Name and title of your company (同行者 職・氏名)

Professor Naoki Komatsu

- Lecture format (講演形式):

◆Lecture time (講演時間) 30 min (分), Q&A time (質疑応答時間) 50 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 used projector.

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

First at all I present myself and my country. I present my CV in a pleasant way and then I tried to present some interesting things about my country and I compared them with Japan. After that, I explained why I become a scientist, remarking the influence of teachers, high school and references in books or TV and internet. Finally, to finish the first part of the presentation I explained why I decided to come to Japan. I explained the important role of Japan in science and my interest for Japanese culture.

Then, I introduced my work about carbon nanotubes. Carbon nanotubes have very interesting properties, but it is necessary to modify them to use these properties in our daily life. My work is to modify carbon nanotubes with a new method which consists of putting a ring (organic molecule) around the carbon nanotubes and study their properties. Because of their mechanical properties, carbon nanotubes are used to make stronger polymers, so I incorporated my modified nanotubes in polymer fibers prepared by electrospinning technique. Then I measured their mechanical properties, obtaining very good results.

Must be typed

- Overall advice or comments to future participants in the program (今後の講師へのアドバイス):

It would be great if the interaction between high school and fellow would be fluent. Perform some experiment because the students have basic knowledge about our work.

Because I did not know about the exact time for the lecture I only prepared a 30 min presentation.

I would have liked to prepare some experiment but I did not know if I had time.

- Other noteworthy information (その他特筆すべき事項):

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- Impressions and opinions from a company (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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