

(For JSPS Fellow)

Form B-5

Date (日付)

28/11/2014 (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): Sima Felix (ID No. P14709)- Participating school (学校名): Suwa Seiryō High School- Date (実施日時): 19/11/2014 (Date/Month/Year: 日/月/年)- Lecture title (講演題目): (in English) Light and Laser(in Japanese) Hikari to Re-sa-

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

First part of the talk was devoted to my country of origin, Romania. Known places, culture, art music and science were underlined. Famous romanian scientists and their resereaches were presented in the first part. The main scientific lecture was based on the fundamental understanding of light and light properties. It covered the energetic aspect of light, reflection and refraction properties, continued with definition of photons, colors and wavelengths and electromagnetic waves. The process of photon production and aspects of laser properties and definitions were also introduced within the theoretical part of the lecture. Differences between white light, colored light and laser light were evidenced with emphasis on the laser special properties (coherence, monocromaticity and directional) and broad applications. Some concrete potential applications of lasers were summarized. In particular, laboratory reserach experiments using lasers or new laser sources nowadays systematically developed were underlined. Other applications concern the practical life such as supermarken scanners or in medical surgeries. Pictures took in research laboratories in which I worked were presented to stduents. At the end, a small experiment was carried out in view of discriminating normal light of laser during diffraction onto a CD grating. Questions concerning the introduced material were raised by students and I was very pleased to receive and answer them.

- 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) 15 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))

PPT presentation, projector and small experiment

- ◆ 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))

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- ◆ 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。):