

(For JSPS Fellow)

Form B-5

Date (日付)

11/5/2016 (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): Soon-gi Park (ID No. P15365)
- Participating school (学校名): Nishio Highschool
- Date (実施日時): 11/5/2016 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): (in English) Recent Display Technologies
(in Japanese) _____
- Lecture summary (講演概要): Please summary your lecture 200-500 words.

This lecture briefly introduces the state-of-the-art technologies in display technologies. It will include 3D display, virtual reality (VR), augmented reality (AR), and other relevant technologies. We will see how those technologies can change our life in the future. This lecture is focused on the optical technology of displays, which directly connects technology to the users. The concept of ray optics will be introduced because it is one of the key concepts of the current display technology. The lecture will also explain the principle how people can feel the depth and distance, and why we feel headache when watching 3D or VR displays. In addition, display applications will be introduced which enables people experiencing realistic 3D scenes. Specifically, they include vision-correcting displays, transparent displays, or capturing 3D images. Commercial products such as Oculus Rift, Hololens, or Lytro camera are also introduced.

The lecture also gives personal experience as a doctoral researcher and motivation to becoming a researcher. It will help young students find their future careers.

Also, the home country of the lecturer will be introduced. Korea and Japan share a lot of common things as they are neighbor, but there are also big difference in culture and society. Brief information of Korea and Korean culture will be introduced, and discuss how two countries can be more faithful friends.

- Language used (使用言語): English
- Lecture format (講演形式):
 - ◆Lecture time (講演時間) 40 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))

Used 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))

Assisted by the accompanied person

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

山口祐太

- ◆ 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。):