

Form B-5

Date (日付)

8.2.2012

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): **Arri Priimägi (ID # P10831)**
- Participating school (学校名): **Yamanashi Prefecural Tsuru High School**
- Date (実施日時): **7.2.2012**
- Lecture title (講演題目) **About Finland, About Playing with Light**
- Lecture summary (講演概要): Please summary your lecture 200-500 words.

The lecture started with a relatively broad introduction to my home country, Finland, followed by a brief deviation to the country where I was born, Estonia. Thereafter, I used the physics of Aurora Borealis to introduce light and explain why different materials absorb/emit different colors. After northern lights I briefly discussed about human vision, in particular the photoisomerization of the retinal molecule, which is the trigger for the vision event. The retinal photoisomerization provided a natural connection to my own work on photo-switchable materials, the main applications of which were briefly introduced. The time division between different topics was: (i) ca. 30 min about Finland; (ii) ca. 30 min about Aurora & Vision; (iii) ca. 20 min about my own work.

Altogether, I felt that the lecture was successful and that majority of the students were interested on the topics being covered. Prof. Atsushi Shishido, who translated and summarized the key points of my presentation in Japanese, gave a great contribution on this. I believe that without the translation, many of the students would have been "saturated" because of too much English and a relatively difficult topic. I also felt important NOT to go into details of my own research, as it is more important for high school students to get a general flavor about the field than to hear details about some specific aspect. In fact, I believe that the topics covered in the beginning, *i.e.* northern lights and the vision event, are more likely to intrigue students and foster their interest towards science than state-of-the-art research in some specific field.

- Language used (使用言語) **English**
- Lecture format (講演形式): **Powerpoint presentation**
 - ◆Lecture time (講演時間) ca. 80 min (分), Q&A time (質疑応答時間) ca. 20 min (分)
 - ◆Lecture style (ex.: used projector, conducted experiments): **Powerpoint presentation**
 - ◆Interpretation: **Provided by my host researcher**
 - ◆Name and title of accompanied person (同行者 職・氏名): **Prof. Atsushi Shishido**
 - ◆Other noteworthy information (その他特筆すべき事項): The science teacher of the Tsuru high school had prepared a great handout for the students, which I believe helped them A LOT in understanding my presentation.
- 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。):