

(For JSPS Fellow)

Form B-5

Date (日付) 2015/11/30

(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): **Primoz Pirih**  
**(ID No. P14764)**
- Participating school (学校名): **愛知県立瑞陵高等学校**  
**(Aichi Prefectural Zyiryo High School)**
- Date (実施日時): \_\_\_\_\_  
**(Date/Month/Year: 日/月/年)**  
**2015/11/18 at 14:00**
- Lecture title (講演題目): (in English) Insects: optics of colours, physiology of vision  
(in Japanese) 昆虫：色の光学、視覚の生理学。
- Lecture summary (講演概要): Please summary your lecture 200-500 words.  
**I will first talk about the pigmentary and physical colours found in insects. Then I show examples of insect compound eye design. Then I will talk about photoreceptor cells and about their colour and polarisation sensitivity. I will show how vision can be tuned to the environment. I will show some data and videos from my current project. I will add some recent findings about the information processing in neurons in the insect visual brain, and how their function relates to behaviour. Besides showing that science can be fun, I will try to show the importance of quantitative thinking, good graphical data presentation, and computer programming ability. I will try to motivate the students to learn and to speak foreign languages (of course English; but also German, Spanish, Chinese may also be good options). I will also suggest travelling, studying and living abroad as a chance to make life more colorful and better.**
- Language used (使用言語): **English only**
- Lecture format (講演形式): Powerpoint presentation, videos,  
◆Lecture time (講演時間) 60 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))  
**(1) 40 students had their presentations (30 seconds each) prior to my lecture**  
**(2) I used a projector; conducted an experiment about specularity of reflection** (laser pointer, diffusive sheet, aluminium, paper, mirror, wings)  
◆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)) **NO**  
◆Name and title of accompanied person (同行者 職・氏名): **N/A**  
◆Other note worthy information (その他特筆すべき事項): **N/A**
- 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。): **N/A**

N/A