（For JSPS Fellow）

Form B-5

Date（日付）
16 / 10 / 2012（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）: Dur Gael Patrice Roger（ID No. P11810）

- Participating school（学校名）:Hyogo PrefecturalAshiya International SecondarySchool

- Date （実施日時）: 27 / 09 / 2012 （Date/Month/Year:日/月/年）

- Lecture title（講演題目）: （in English） The Amazing worldofCopepod

（in Japanese） カイアシ類の驚くべき世界

- Lecturesummary（講演概要）:Pleasesummaryyourlecture 200-500 words.

On Earth, oceans, lakes and rivers represent 97% of the planet's water. The topmost layer of these aquatic environments, just few meters below the surface, is full of life. This zone is home to small creatures like animal larvae, algae, bacteria, and other plankton. Among the most abundant residents of this zone are copepods – tiny relatives of crab and shrimps. This lecture aimed first to show the student how mega-important are these micro-animals. The variety of sampling methods used to collect these animals were then presented, and videos on the application of these methods in different ecosystems, i.e. lakes, estuary and polar oceans, were shown. I subsequently brought the student for a visit of the amazing world of copepods, from describing what is going on at the individual scale to the consequences of these actions at the population level. We first had a look on how these tiny animals are swimming and how the swimming patterns may differ between a Taiwanese and French species. We then had a look at the process involved in the mating behavior of copepod with a special focus on the way male find and track females and how the latter select the male. Finally I introduced a mathematical model that simulates egg carrying copepod's reproduction, and show how you can use such mathematical model to answer some questions such as: "what is the best temperature to obtain a very high production?". I concluded my lecture, as it was asked, by giving the student interested in a scientific carriersome advices.

- Language used （使用言語）: English withsomeJapanesetranslation by my host researcher, Prof. S. Ban

- Lecture format（講演形式）:

◆Lecture time（講演時間）**120**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））

Power Point Presentation displayedwith a Projector

◆ Interpretation (ex.: assistance by accompanied person, provided Japaneseexplanation byyourself)（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））

My host researcher, Prof. S. Ban, providedexplanations in Japanese

◆Name and titleofaccompanied person（同行者職・氏名）

Professor Syuhei Ban of the University of Shiga Prtefecture

◆Other note worthy information（その他特筆すべき事項）:

- Impressions and opinions fromaccompanied 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。）

今回の講演は、講師を務めた特別研究員の Dr. Gael Dur にとっては大変貴重で、良い経験になったことと思います。また、講演を行った高校においては、生徒たちに科学のおもしろさだけでなく、いろいろな意味で刺激を与えることができたでしょう。訪問した高校がユニークな生徒構成と校風を持っていたことも研究員にとってはありがたいことでした。生徒たちの半分は帰国子女か外国人で、英語での講演を良く理解しておりましたし、日本の学校にはないオープンマインドな雰囲気が講演会場を和ませておりました。

今後も、このプログラムが末永く続いてゆきますことをお祈り申し上げます。