

Form B-5

Date (日付)

(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): Lyndon Jordan (ID No. P11384)

- Participating school (学校名): Takefu High School

- Date (実施日時): 12th July 2012 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目) Social environment and the evolution of male reproductive strategy
(in Japanese)

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

Reproduction is by its very nature a social interaction, and should therefore be considered in its social context. By altering the interactions between individuals, social conditions can modify the costs and benefits of reproductive strategies, and hence the evolution of mating behaviour generally. The influence of the social environment is particularly pertinent to studies of male reproductive behaviour due to the competitive nature of male sexual effort. Males must balance the costs of courtship, risk of competition, likelihood of mating, and abundance of alternative mates when investing their reproductive effort. All these factors are shaped by the social environment, which ultimately changes the selective landscape in which male reproductive strategies operate.

In this talk I will explore how the social environment affects the evolution of male reproductive behaviour using results from field, laboratory, and theoretical studies. I identify aspects of animal social systems that have a strong influence on the evolution of male reproductive behaviours, and investigate the effect of these social factors in natural systems. I demonstrate that changing social conditions can rapidly alter the sexual behaviour of males, emphasising the need to study sexual selection as a function of the relevant social context.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 75 min (分), Q&A time (質疑応答時間) 35 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))

Powerpoint and experiments

◆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))

Accompanying person

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

Dr Takeyama

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

- 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。)