

(For JSPS Fellow)

Form B-5

Date (日付)

05/02/2018 (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): Rajarshi DASGUPTA _____ (ID No. P 16106)

- Participating school (学校名): 埼玉県立熊谷高等学校

- Date (実施日時): 05/02/2018 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English) A Journey into the Ecological Future

(in Japanese)

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

Mangroves consists large family of halophytic plants and trees that are found across tropical coastline, especially in Asia. They provide nearly 70 valued ecosystem services which include provisioning of food, fodder, wood, honey, medicine and many other valuable services such as disaster risk reduction in coastal areas. Mangroves are also natural habitats of fish and crustaceans and offer tremendous protection during catastrophic natural disasters such as typhoons and tsunamis. Despite providing immense benefits to mankind, they are among the worst degraded tropical forests due to immense anthropogenic and environmental pressure. Globally, mangroves are disappearing at the rate of 1% every year, and some projections suggest that they will completely vanish by the end of 2100. Therefore, it is important to make appropriate and timely decisions to protect the mangroves from disappearing and to wisely utilize their ecosystem services.

The aim of this presentation is to look into the mangrove future and to quantify the complex relationship between numerous human and natural drivers that will impact mangrove habitats in future. In this presentation, students were introduced with mangroves, their exceptional diversity in Asia-Pacific region and the drivers that resulted in mangrove loss. Students were also introduced to the concepts of ecological scenario planning and to foresee the mangrove future. Since the pathways to future is essential complex and deeply uncertain, the presentation consisted a simplified case study of scenario depiction (a set of plausible futures) to estimate mangrove extent and their vital ecosystem services under various favourable and unfavourable future conditions.

- Language used (使用言語): English/Japanese

- Lecture format (講演形式):

◆Lecture time (講演時間) 50 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))

Powerpoint Presentation through 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 accompanied person

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

井上雄太 (Master student of Tokyo University)

◆Other noteworthy 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。):今回、男子高校1年生のクラスを担当し、発表の内容・形式だけでなく学生側の英語力や聞こうとする姿勢が、この事業を実のある物に出来るかを定める大きな要因であると感じました。そして、学生側の英語力や聞こうとする姿勢は発表内容に対する興味の多寡に影響を受けると考えられます。この事業は、同時に複数人が発表する形式で進められているようですので、事前に生徒の興味・関心に合わせて選択・聴講させるといった措置を学校側にとって頂くことが事業をより意味のあるものにする上で重要であるかと思いました。