

(For JSPS Fellow)

Form B-5

Date (日付)

30/10/2017 (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): 清真学園高等学校・中学校 _____

- Date (実施日時): 28/10/2017 _____ (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。): 今回のサイエンス・ダイアログ事業では、高校2年生の1クラスを担当しました。学生が知識の幅を広げる良い機会であると思いましたが、時間が短く一方的にこちら側から情報を与えるにとどまっている印象を受けたので、学校側のカリキュラムの都合もありますが、ワークや意見交換の時間を作り学生側が情報のアウトプットまで出来るようになればより良い事業になりうるのではないかと参加して感じました。こちら側としても学生側の意見が直接聞ける機会などがあれば、やりがいにもつながると思います。