

(For JSPS Fellow)

Form B-2  
(FY2018)

Date (日付)  
14/Sep/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): JIYOON KIM (ID No. P17387)
- Participating school (学校名): Chiba Prefectural Funabashi High School
- Date (実施日時): 14/Sep/2018 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): What do ecologists study?  
:Environmental impact of dam construction on migratory whooper swan
- Name and title of your accompanying person (講義補助者 職・氏名)  
None.
- Lecture format (講演形式):  
◆Lecture time (講演時間) 60 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))  
used projector

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

In this lecture, I explained the concepts and methods of ecological research with an example case of "environmental impact of dam constriction on migratory whooper swan". During the last decades, natural estuaries have been rapidly modified due to dam construction and reclamation for urban development. Massive dam construction resulted in physical alterations and land use changes in the coastal area. Construction of an artificial dam changed the natural flow of the river and freshwater discharge flowing into the estuary was artificially regulated and restricted by floodgate. Flow alteration in the estuarine ecosystem can affect salinity level, the composition of nutrient, turbidity, as well as diverse wildlife. I presented a relative influence of the altered river hydrology on the causal relationship between the growth of marsh plants and its herbivores in the estuarine wetlands. Understanding direct and indirect interaction among these components is further related to facilitating ecological stability in the estuarine system.

- Overall advice or comments to future participants in the program (今後の講師へのアドバイス):

Providing keywords for the lecture seems very helpful. And Japanese annotation of these keywords would also benefit if the teacher uses the powerpoint and projector. Very simple word annotations using the English-Japanese dictionary would be enough to increase the

understanding of students.

- Other noteworthy information (その他特筆すべき事項):

- Impressions and comments from the accompanying person (講義補助者の方から、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。)