

(For JSPS Fellow)

Form B-5

Date (日付)

12/11/2014 (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): Nam Jin NOH (ID No. P13007)

- Participating school (学校名): Aichi Prefectural Kariya High School

- Date (実施日時): 11/11/2014 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English) Climate Change and Forest Ecosystem – open-field warming experiments

(in Japanese) 気候変化と森林生態系 - 野外温暖化実験

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

In my lecture, I first introduced my country Korea and home town Seoul, and then talked about my educational background and the motives for becoming a scientist with the life of an ecologist. Finally, I have started the lecture about my research topic on environmental analyses and evaluation of changes in forest ecosystem under climate change. In this part I explained the mechanism of climate change with highlighting global warming since global mean surface temperature is expected to increase much higher by the end of this century. I also explained the hierarchy of ecological systems and addressed the possible changes in ecosystem function and structure, atmospheric chemistry, and biodiversity under future climate changes. I then focused on new techniques of open-field warming experiments for better understanding the responses of terrestrial ecosystems to future climate changes as well as advanced case studies focusing on prediction of potential changes in plant and soil. Then I showed new findings in response of soil biogeochemical and canopy ecophysiological processes to on-going open-field experimental warming in forest ecosystems in central and northern Japan. In the end I gave students the take home message overall lecture with further challenges. Then students and I had a good time to talk about warming manipulation techniques, future climate change and ecosystems as well as to share the culture of each other with many questions and answers.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 90 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))

used projector

Must be typed

- ◆ 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))

no interpreter

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

no accompanied person

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- ◆ 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。):