

(For JSPS Fellow)

Form B-5

Date (日付)

14/01/2015 (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): Jungjoon Seough (ID No. P 14028)- Participating school (学校名): Gifu Prefectural Ena High School- Date (実施日時): 14/01/2015 (Date/Month/Year: 日/月/年)- Lecture title (講演題目): (in English) Plasma in Space(in Japanese) 空間でのプラズマ

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

It has often been said that 99% of the matter in the universe is in the plasma state: plasma is loosely described as an electrically neutral gas of charged and neutral particles. Plasma is the one of the fourth fundamental states of matter including solid, liquid, gas, and plasma. We have experienced with plasma not only in our everyday life, but also in the near-Earth environment. As soon as one leaves the earth's atmosphere, one encounters the plasma consisting of the Van Allen radiation belts and the solar wind. Since such near-Earth space environment was discovered in the 1960s, scientists all over the globe are attempting to understand the solar wind (originated from the Sun) and its interactions with the Earth and solar system. This kind of research is called "space plasma physics". In this lecture, the concept of space plasma physics and its importance to space weather will be presented. Also, I will show how the solar energetic particles could have influences on the astronaut and the spacecraft in the near-Earth space.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 50 min (分), Q&A time (質疑応答時間) 40 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

◆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))

Assistance by accompanied host researcher

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

Yasuhiro Nariyuki, Associated professor

◆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。):