

(For JSPS Fellow)

Form B-5

Date (日付)

7/10/2013 (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): Suchismita Mishra (ID No. P11503)

- Participating school (学校名): Kamaishi High School

- Date (実施日時): 30/09/2013 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (Radiation in environment around Fukushima)

福島原発の周辺環境における放射能について

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

We live in a radioactive world. There are many natural sources of radiation which have been present since the earth was formed. In the last century, anthropogenic activities like nuclear operation/nuclear accident/weapon test release various radionuclides adding to this natural background radiation with some artificial sources. Therefore, environmental radioactivity monitoring is very important for radiation protection and to understand the environmental impact of radiation. Nuclear energy is used extensively as a renewable source for power generation since it is very clean and free from any environmental pollution in comparison to other sources of energy. At same time, it is having highest risk if there is a nuclear accident. During any nuclear accident huge amount of radionuclides released to the environment and follow different pathways to reach human beings. My field of research is based on environmental radioactivity measurements and to study the fate and migration of radionuclides in a geological environment. I am carrying out studies on sorption behavior of natural and fallout radionuclides which is an important process for radionuclide migration in geosphere, specifically in soil water system around Fukushima nuclear power plant. This study will be very much helpful for understanding the radionuclide transport and exposure assessment.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 70 min (分), Q&A time (質疑応答時間) 15 min (分)

- ◆Lecture style (ex.: used projector, conducted experiments) **Projector used**

(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))

- ◆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))

Nobody accompanied.

- ◆Name and title of accompanied person (同行者 職・氏名)
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- ◆Other note worthy information (その他特筆すべき事項):
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- 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。):