

Form 3

Date (日付)

30/07/2010 (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 (参加外国人研究者氏名): Bantu Prasanta Kumar Patro (ID No. P 08024)

Participating school (参加機関(受入学校名)): Yamanashi Prefectural Kofu Higashi High School

Date (実施日時): 29/07/2010 (Date/Month/Year:日/月/年) Time: from 13:00 to 14:30 PM

Lecture title (講演題目): (in English) PLATE TECTONICS

(in Japanese) プレートテクトニクス

Lecture summary (講演概要):

The Earth consists of mainly three layers such as crust, mantle and core. The outer shell which is composed of Earth's crust and uppermost mantle is known as plate. Plate tectonics is the study of the large features (oceans, continents, mountain ranges) on the surface of the Earth and the processes (earthquakes, volcanic eruptions) that formed them. In my talk I have introduced the above concepts and then discussed about the geophysical methods such as gravity, seismic and electromagnetics to study the Earth's interior. More specifically, I had discussed about a natural source electromagnetic method known as magnetotellurics (MT). This technique is based on the Maxwell's laws. Using the MT technique one can get the electrical image of the subsurface from 100 meters to 100's of kilometers. I have presented the electrical image from the Cascadia (North America), Himalayas (India), Mt.Fuji (Japan) during my talk.

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) 15 min (分)

Lecture style (examples: used projector, conducted experiments)

(講演方法 (例: プロジェクター使用による講演、プレ実験など))

Used power point and projector. Presented few movies and animations to generate interest among the students.

Interpreter (example: assistance by host or colleague, provided Japanese explanation by yourself)

(通訳 (例: 受入研究者によるサポート、外国人研究者本人による日本語説明))

Colleague

Name and title of assistant (協力者 職・氏名) (example: host or colleague)

Colleague. His name is Dr. Hideaki Hase

○Other note worthy information (その他特筆すべき事項):

Impressions and opinions of assistant (協力者から本事業に対する意見・感想等がございましたら、お願いいたします。):

Dr. Hase is quite happy and satisfied with the lecture.