

(For JSPS Fellow)

Form B-5

Date (日付)

29/07/2016 (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): Balazs Bradak (ID No. P 15328)

- Participating school (学校名): Akashikita High school

- Date (実施日時): 15/07/16 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): Paleoenvironment reconstruction: the link between planetology, geoarchaeology and paleomagnetism

(in Japanese)

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

Three relatively different field in Earth and Planetary Science: planetology, geoarchaeology and paleomagnetism.

The question is, how this three different field can be linked together? The answer is: paleoenvironment reconstruction.

One of the main goal of geoarchaeology to reconstruct the environment (habitat – the natural home or environment of an organism) of ancient man. Geology use various analytical methods (in field and in the laboratory) to answer some question of archaeology, such as, was it a safe place for the camp of the early homo sapiens and how did they survive the coldest period of Ice Age?

Paleomagnetism helps define the timeframe of various geological periods and processes, by the identification of the change of the Earth magnetic polarity. And paleomagnetism also a good tool to reconstruct some components of the paleoenvironment, such as wind direction and paleorainfall, by the character and arrangement of the magnetic minerals in various geological layers.

And finally, one of goal of planetology, the science of various planetary bodies, is to reveal the similarities and differences between mechanism (e.g. (surface) processes like volcanism, seismic activity, tectonism, landslides, wind and rivers) on Earth and various Planets by the study of the mark of the processes and the reconstruction of the (paleo)environment wherein the processes worked.

There is one question yet remains, is there any part of Earth and Planetary Science where planetology, geoarchaeology and paleomagnetism can be studied together? The answer is, the Quaternary Science.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 50-60 min (分), Q&A time (質疑応答時間) 20 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))

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 person

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

Yuusuke Ueno

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

Ueno San was a really great help. From the preapartion of the presentation (lot of good advice), during the lecture (well-timing comments without asking him to help) he helped a lot. I am also thankfull for the help and instruction of Kazuhiro Matsuo. He drove me trought the preparation of the lecture by numerous comments and always fast communication.

And finally, I am really thankfull for the students of Akashikita High school for the 1.5 and 2 hours (good questions, comments, and a little laughing) of lecture we spent together.

- 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。):