

(For JSPS Fellow)

Form B-5

Date (日付)

10

Feb

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): Ali Jamshidi (ID No. 14058)- Participating school (学校名): Akita Prefectural Yokote Seiryō Gakuin Senior High School- Date (実施日時) 3 Feb 2015 (Date/Month/Year: 日/月/年)- Lecture title (講演題目): in English

Evaluation of Engineering Properties and Sustainability of Concrete Pavements incorporating Waste materials

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

The roads have an important role in the civilized society, which are surfaced by pavements. They provide safe and efficient transportation of passengers and goods. However, pavement construction is an environmental polluting technology. Therefore, many researchers have made great efforts to reduce the level of emissions in the pavement construction. One of the alternatives is incorporation of by-product waste materials in the pavement construction. In this presentation, firstly, effects of polluting technologies on our social life was presented. Then, effects of adding two different industrial by-product materials in the concrete pavements are evaluated. In this regard, principles of analysis and methodologies adopted in the research were introduced. In addition, computation of heat energy and amount greenhouse gas emission during pavement construction were explained by a simple method associated with an example. Also, effects of use of the by-product materials were investigated in economic viewpoint. Finally, the presentation shows the influence of application of the waste material in cleaner society.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 60 min (分), Q&A time (質疑応答時間) 15 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))

There was no interpretor

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

◆Other noteworthy 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。):

The high school staff were very professional. The students were also very smart.