

(For JSPS Fellow)

Form B-5

Date (日付)

10/11/2015 (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): Chi Cheng (ID No. P 14347)- Participating school (学校名): Meizen High school- Date (実施日時): 20/10/2015 (Date/Month/Year: 日/月/年)- Lecture title (講演題目): (in English) A journey to China and Cryptography(in Japanese) 中国と暗号への旅

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

In my lecture in Meizen High school, I talked about China---my home country, the reason why we need to learn English, and Cryptography---one of my main research interests. First, I gave students problems about China to attract their attention and know how much they know about Chian. Then, I introduced the top attractions and beautiful places in China. After that I talked about Wuhan---the city where I came from. Next I gave the reasons why we need to learn English, which is mainly because we want to communicate with people all around the world and English the most popular languange. I gave them a good example: People in Chian and Japan both use Kanji, but with different prouncations. If they want to communication with each other freely, they need to lean English. Finally we entered into the world of Cryptography. I also began with a question on the webpage of google: Has anyone knew the meaning of the padlock symbol before the url? How to authenticate yourself on the internet? I introduced Caesar cipher, which is one of the simplest and most widely known encryption techniques. Next, the history and principle of RSA was introduced. To understand the idea behind RSA, I also talked about the definition of prime numbers, which is followed by an example of text RSA.

- 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) 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))

We used projector and blackboard.

◆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 Yamaguchi san in Japanese

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

Yuya Yamaguchi

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

Meizen high shool is the mother school of Yuya Yamaguchi san.

- 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。):

Yamaguchi san was very excited to go back to his mother school and meet his teachers. But about his feelings, he would like to say "特に無し".