

Form 3

Date (日付)

14 December 2010

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): Akhmad SABARUDIN (ID No. P 10039)

Participating school (参加機関(受入学校名)): Gifu Prefectural Ena High School

Date (実施日時): 8 December 2010 Time: from 13 : 55 to 15 : 25

Lecture title (講演題目): (in English) Flow-Based Methods in Analytical and Bioanalytical Chemistry

(in Japanese) フロー方式による金属と非金属(生物化学)分析

Lecture summary (講演概要):

Generally, the determination of trace elements is performed using batchwise method. However, the operation procedures are usually very tedious. Stringent control of the laboratory environment is also required to avoid sample contamination when trace and ultra-trace detection levels are attempted. Such situations can be overcome by utilizing automated flow-based methods, such as flow injection, sequential injection, and other related techniques. By employing an on-line system, such general drawbacks of batchwise procedures could be mostly eliminated. In addition, the reagent consumption is much reduced compared to the usual manner, and the requirements on the laboratory environment for trace analysis are much less stringent.

Language used (使用言語): English and Japanese

Lecture format (講演形式):

○Lecture time (講演時間) 70 min (分), Q&A time (質疑応答時間) 20 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 projector, power point file (with animation), video files

○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))

Assistance by English Teacher of Ena High School

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

Hanae KUWABARA (桑原 華栄)

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

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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。):

My impressions:

I am very happy to meet the students and also the teachers at Ena High School. I hope there will be another chance for visiting this school. They have a lot of curiosity about analytical chemistry. Therefore, many questions were addressed to me.

Opinions of assistant (Hanae Kuwabara):

Kuwabara Sensei sent me e-mail as follows:

Dear Dr.Akhmad

Thank you for visiting our school and giving us a wonderful lecture yesterday.

We all appreciate it and we hope you can visit us again.

Ena high school

Hanae Kuwabara