

(For JSPS Fellow)

Form B-5

Date (日付)

14/07/2014 (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): GAMAL ELMASRY (ID No. P13391)

- Participating school (学校名): Takefu Senior High school, Fukui Prefectural

- Date (実施日時): 11/07/2014 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English) Spectral Imaging for Food Quality Evaluation
(in Japanese) 食品の品質評価のための分光画像解析

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

This lecture underscores the theoretical and practical issues associated with the development, analysis, and applications of spectral imaging for food quality evaluations. First, the fundamental configuration and working principles of the systems as well as the basic concept and structure of data will be described and explained. Next, the lecture profoundly tries to impart an understanding of different approaches used during image acquisition, data collection and visualization, and also to present strategies and essential image processing routines necessary for making the appropriate decision during detection, classification, identification, quantification and/or prediction processes. Besides the lecture, a demonstration of using a spectral imaging system in one application will be given.

Notes:

- There was a small introduction about myself, my home country and university as suggested by JSPS.

- Language used (使用言語): ENGLISH

- Lecture format (講演形式): **PowerPoint presentation and experiments.**

◆Lecture time (講演時間) 90 min (分), Q&A time (質疑応答時間) 30 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))

Using data show projector and conducting an experiment.

- ◆ 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))

Intrepretation and translation was given by an accompanied Japanese researcher.

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

Dr. Hiroshi HIGASHI

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

He likes the ideas and was very happy to participate in such a program.