

(For JSPS Fellow)

Form B-5

Date (日付)

30/Sep/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): Dr. Manasikan THAMMAWONG (ID No. P13212 )

- Participating school (学校名): Fujishima High School (Fukui Prefecture)

- Date (実施日時): 26/Sep/2014 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English) 'Modified Atmosphere Packaging (MAP) : A useful technique for reducing mechanical injury and extending shelf-life (quality maintenance) of fresh fruits and vegetables'

(in Japanese) 'MA 包装-その品質保持効果-'

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

My lecture consisted of five main topics as follow:

1. Self introduction: I introduced myself about nationality, hometown, education background, present work, and hobbies.
2. Introduction of Thailand: This part was about the location, the monarch, the map and flag, people, religions, language, culture and art, foods and desserts, and agricultural produce of Thailand.
3. The basics of plant biology, postharvest physiology, and quality maintenance of fresh fruits and vegetable by modified atmosphere packaging (MAP): The meanings and characteristics of fresh produce (fruits and vegetables), postharvest handling processes, and the changes in gene expression, cell metabolism, and physiological disorder in response to environmental stresses were explained. In addition, the lecture included the use of MAP and examples of actual applications of postharvest physiology and technology knowledge for maintaining quality and extending shelf life of fresh produce after harvesting. The example of research cycle based on the study of quality changes of fresh produce was also introduced.
4. My current research work: The research background and experiments addressing the Systems Biology Study for Evaluating the Efficacy of Modified Atmosphere Packaging (MAP) to Reduce Mechanical Injury and Quality Loss of Broccoli were explained.
5. How I became a researcher and My life experiences (what I have learned for being a researcher). The importance of studying English language was also mentioned in this part.

- Language used (使用言語): English and Japanese

- Lecture format (講演形式):

◆Lecture time (講演時間) 50 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))

Used projector and powerpoint presentation

◆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))

Japanese titles were given to major topics (slides) and Q&A was done in Japanese by myself.

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

◆Other note worthy 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。):