

(For JSPS Fellow)

Form B-5

Date (日付)

15 FEBRUARY 2013 (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): ANA EUSEBIO-COPE (ID No. P 11085)

- Participating school (学校名): TOKUSHIMA JONAN PREFECTURAL HIGH SCHOOL

- Date (実施日時): 14 FEBRUARY 2013 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English) PHILIPPINES TO JAPAN; THE WORLD OF MICROBES AND THEIR INTERACTIONS

(in Japanese) フィリピンから日本へ: 微生物の世界

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

The lecture was divided into two parts; general description of the Philippines and the research theme of our group in which I am actively participating and currently working on here in Japan. I started the first part of the lecture by introducing myself briefly followed by introducing the Philippines by giving general descriptions of the country, like what type of people Filipinos are, what type of food we eat, who influences our culture, the best places in our country, etc. I also explained the educational system with emphasis on what kind of schools we have in the country and presented to them specific example of a high school curriculum being taught in a science-oriented government-supported school. Furthermore, I enumerated some of the ways how science is being taught in our country.

For the second part, I started by explaining the connection between the type of environment I grew up (Los Banos, a small town of Laguna province which has given the title 'Nature and Science city') and my fondness to pursue science-related research and eventually my motivations in studying/working here in Japan. In the Institute of Plant Science and Resources, our group is actively working on fungal viruses and its utilization as biological control (biocon) agents or virocontrol agents. Virocontrol is a specific type of biocon wherein viruses are utilized to control the phytopathogenic fungi infecting them. For the students to understand this concept, I gave some background information of what virus is and presented some evidences that viruses can be both our 'friends' and 'enemies'. I explained also the tri-trophic levels (plant-fungus-virus) and how they interact with each other and their involvement to virocontrol. Finally, I summarized the lecture by giving them the take home messages that our work is 1st, a potential tool for sustainable agriculture by providing disease control measure (virocontrol) that is sound and environmentally friendly compared to the use of pesticides and other chemicals; 2nd, advancing

the field of fungal virology by exploring the physiology of its host, the fungus and consequently; 3rd, acquiring more information about the virus (novel virus structures, new virus expression strategies, etc.).

Most of these topics were introduced to the students graphically in power point presentation. I spent time in putting more pictures/graphics than the use of words/phrases only in the presentation material. I believe that they can appreciate the lecture better by this style.

- Language used (使用言語): ENGLISH

- Lecture format (講演形式):

◆Lecture time (講演時間) 110 min (分), Q&A time (質疑応答時間) 10 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, ASKING QUESTIONS TO GET STUDENTS' ATTENTION/
PARTICIPATION AND REWARDING THEM BY GIVING SMALL TOKEN FROM THE
PHILIPPINES

◆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 FROM ACCOMPANIED PERSON

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

Dr. NOBUHIRO SUZUKI, PROFESSOR OF OKAYAMA UNIVERSITY

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

NONE

- 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。):

JSPS フェローにとっても、高校生にとっても有意義な事業と思います。ボランティアの JSPS フェローにとってかなりの負担を強いると思います。

今回のケースに限って言えば、予め、フリーディスカッションの時間を取り、生徒の英語力を講師が知ることができたらプレゼンをさらに分かりやすくできると思います。