

(For JSPS Fellow)

Form B-5

Date (日付)

14/12/2017 (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): Md. Asaduzzaman _____ (ID No. P16397 _____)

- Participating school (学校名): Kagawa Prefectural Takamatsu Sakurai High School _____

- Date (実施日時): 8/12/2017 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): Autotoxicity in plants _____

- Name and title of your company (同行者 職・氏名)
Toshiki ASAO, Professor, Shimane University _____

- Lecture format (講演形式):

◆Lecture time (講演時間) 60 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))

Used a projector _____

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

The lecture was delivered in three parts. The first part was self introduction, brief history of my country and relationship between Bangladesh and Japan. Nature and beauties, heritage, arts and crafts, food and festivals, notable persons of my country were presented pictorially. The second part was about my research on autotoxicity in plants. In this part basic concept of my research topic was shown in simplified diagrams. Major researches on the topic from our research group was also summarized in figures and tables. Some technical terms related to autotoxicity phenomenon was explained by my host researcher who was accompanied with me. Identified allelochemicals from plants such as rice, taro, strawberry, beans, and some ornamentals were presented to the students. In addition, overcoming methods of autotoxicity using crop species and cultivars, rootstocks, activated charcoal, microbial strains, auxins, amino acids, electro-degradation, succeeding crops, and light emitting diodes were also described briefly. Advanced research under my on going postdoctoral program were outlined in a short. Analytical instruments for studying autotoxicity in plants also shown to the students. In final part, qualities of becoming a good researcher were discussed. My education, research career, current research projects, and key outcomes in terms of publications were shown to students so that they can be inspired toward science and research.

- Overall advice or comments to future participants in the program (今後の講師へのアドバイス):
Before going to the advance research information, it is better to clear the main research theme through simplified illustrations, flowcharts, and concise wording.

In addition to separate QA session, questions can be welcomed from the students on specific issues when it comes during the lecture so that they remain concentrated/ engaged to the lecture until completion.

Simple English words and sentences should be used in order to have better understanding on advance research topics.

Speaking slowly and sometimes asking the student answering questions on a specific point can increase their understanding and clarification.

- Other noteworthy information (その他特筆すべき事項):

Active participation of school teachers along with the students and taking part in QA session can increase the success of this type of lecture.

- Impressions and opinions from a company (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。)

島根大学の浅尾です。松江からは大変遠かったですが、日本の高校生に自分の研究を紹介できる機会を得たアサドにとって大変貴重な経験でした。できれば、もう少し時間をかけて交流ができれば良かったと思います。