

(For JSPS Fellow)

Form B-2
(FY2018)

Date (日付)

08/02/2019 (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): CHENG XUEMEI (ID No. P17723)
- Participating school (学校名): Aichi Prefectural Kariya high school
- Date (実施日時): 08/02/2018, 15:50 – 18:20 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): Development of Silicon Based Solar cells
- Name and title of your accompanying person (講義補助者 職・氏名)

- Lecture format (講演形式):
 Lecture time (講演時間) 60 min (分), Q&A time (質疑応答時間) 55 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))
Projector
- Lecture summary (講演概要): Please summary your lecture 200-500 words.
My lecture was mainly divided into seven parts, first part was to introduce my background, study and work experience in both China and Norway. Later, in order to give students some ideas about China and Norway, I showed some slides about Chinese food and drink, sports and culture. Since most students are not familiar with Norway, I spent some time to talk my studying experience in Norway, and also included its food habit, outdoor life and national festival. Through comparing sunny day pictures in China and Norway, it showed air pollution problem, leading to the development of solar energy. Firstly, why do we need solar energy? (Energy consumption and environment pollution) Secondly, what is a solar cell? (Photovoltaic mechanism and bandgap concept) Thirdly, what materials can be used to make solar cell? Fourthly, how's the silicon solar cell market? Then how to make a silicon solar cell? And how to improve the silicon based solar cell?
After 1 hour lecture, we have a 15min break, and almost 55min Q&A section. Students are interested at impact of abroad experience, solar cell mechanism, development, future application, how to improve English as well as Nagoya University and our laboratory. I'm happy to hear and answer all those questions.
In general, my lecture included the experience of studding and living abroad, brief introduction about China and Norway, as well as the importance of renewable energy and the development of silicon based solar cells.
- Overall advice or comments to future participants in the program (今後の講師へのアドバイス):

Must be typed

- Other noteworthy information (その他特筆すべき事項):
- Impressions and comments from the accompanying person (講義補助者の方から、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。)