

Form B-5

Date (日付)

25/01/2012 (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): Cedric THOMAS (ID No. P 10717)

- Participating school (学校名): 和歌山県立向陽高等学校

- Date (実施日時): 13/01/2012 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): How to create energy by using plasma science? 1, Thermonuclear fusion 2, Solar cells

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

I first started by introduce myself and talked about what is a researcher and what is important to me to become a researcher. Then I defined some terms which I would need for the rest of my presentation. I also presented some the different ways to produce energy as well as issues related to them and to the increase of energy consumption. I especially decided to emphasize the nuclear ways (nuclear fission and nuclear fusion) for energy production, regarding the problem at Fukushima last year. As I talked about fusion power, I pointed out mechanism differences between fission power and fusion power. About fusion, I introduced fusion mechanism, plasma confinement and problem related to materials. I also introduced the fact that laboratories, all over the world, have to make experiments to help people working on fusion reactors. Among all those different studies, I presented some results from my research, explaining how these can help choosing material for fusion reactors. The second part was dedicated to solar cells, but as time was short, I just explained how plasma could help making solar cells used in solar panels. I finally concluded on how doing research is interesting and trying to tell them how English is important. I ended my lecture by showing them a map of countries of people I have met during conferences or in laboratories.

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

- Lecture format (講演形式):

◆Lecture time (講演時間) 60 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))

During my lecture, I used projector and screen to show my 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))

I was helped by Ms Ito, a doctor student from my laboratory and we decided the following way: I present in English first and then she translates in Japanese, letting students asking

questions whenever they want.

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

ITO Tomoko, doctor student (D2)

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