

Form B-5

Date (日付)

22/10/2012

(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) : Georgios GIAVARAS
(ID No. P 10502)

- Participating school (学校名): Ichikawa Gakuen High School

- Date (実施日時) : 16/10/2012
(Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English) Graphene: properties and applications
(in Japanese) グラフェン: その物性と応用

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

My lecture had three basic parts. The first part was about my country, the second part was about my school and university years as well as my research profile. The third part was about the properties and applications of graphene. In the first part I presented basic information about Greece and also information on the history, architecture, religion and modern Greece. In the second part I talked briefly about my school and university years. I described the basic directions of physics when doing research. Also, in the second part I outlined my research profile; I presented the reasons for which I studied physics and the reasons I decided to do research; my decision to move to the UK to start a PhD in physics; described my daily life at the office; the aim of my research. In the third part of my lecture I reminded to the students some basic features of the atomic element carbon. Then I introduced graphene and some carbon allotropes, such as graphite, nanotubes, and buckyballs. I explained how the allotropes are related to each other and gave some information on their discovery. Further, I presented the basic properties of graphene and described some potential applications with graphene. I showed to the students two pedagogical videos about graphene and emphasized the reasons for which graphene is considered a super-material.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 50-55 min (分), Q&A time (質疑応答時間) 20-25 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))

Use of projector

- ◆ 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))

Some interpretation was given by a teacher of the school

- ◆ 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):
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- 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。)