

Form 3

Date (日付)

2010-11-1 (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 (参加外国人研究者氏名): 于得水 (Yu Deshui) (ID No. P 09229)

Participating school (参加機関(受入学校名)): 清真学園高等学校・中学校

Date (実施日時): 2010-10-30 (Date/Month/Year:日/月/年) Time: from 10:50 to 11:50

Lecture title (講演題目): (in English) Development of Optical Lattice Clock
(in Japanese) 光格子時計の開発

Lecture summary (講演概要):

1. Why do I want to be a scientist? なぜ私は科学者になりたいですか?

In this section, I would like to introduce Lev. Landau (Nobel prize in physics, 1962) to students. Landau's scientific research capability and personality make me to love science. As we know, we will meet many people in our lives. Someone could give us the positive outlook on life. So, I think the biographies of scientists would help students love sciences.

2. Development of Optical Lattice Clock 光格子時計の開発

Based on my research region, I will talk about three parts: laser, laser cooling and trapping, and optical lattice clock. Because high-school students are lack in some necessary physical knowledge, in this section I do not introduce much principle, but many interesting phenomena. I will also display several interesting videos to show how amazing physics is.

3. Learning English language is very important. 英語を学ぶ言語は非常に重要です

Language used (使用言語): English

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 (examples: used projector, conducted experiments)

(講演方法 (例: プロジェクター使用による講演、プレ実験など))

Used projector and played some short videos

Interpreter (example: assistance by host or colleague, provided Japanese explanation by yourself)

(通訳 (例: 受入研究者によるサポート、外国人研究者本人による日本語説明))

Assistance by colleague

Name and title of assistant (協力者 職・氏名) (example: host or colleague)

山中 一宏

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

I think it is better to ask students what they are interested in before we prepare the powerpoint. Only introducing our major or research region does not make students curious, but boring. So, I hope we can communicate much with students before our lecture and give a lecture related their subjects at a high-school level.

Impressions and opinions of assistant (協力者から本事業に対する意見・感想等がございましたら、お願いいたします。):