

(For JSPS Fellow)

Form B-2  
(FY2018)

Date (日付)

2018/10/23

(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) : ELYASI MEHRDAD  
(ID No. P16325 )

- Participating school (学校名): Iwate Prefectural Kamaishi High School

- Date (実施日時): \_\_\_\_\_ (Date/Month/Year: 日/月/年)  
2018/10/12

- Lecture title (講演題目): Science dialogue (Math and physics, roots of advanced technology)

- Name and title of your accompanying person (講義補助者 職・氏名)  
N.A.

- Lecture format (講演形式):  
◆Lecture time (講演時間) 50 min (分), Q&A time (質疑応答時間)50 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))  
Ppt slides, used projector

- Lecture summary (講演概要): Please summary your lecture 200-500 words.  
I introduced my home country and explained my journey from my hometown to a bigger world through academy. I used world map and colored each country that I somehow became correlated with in my PhD, postdoc, attending conferences, and international research collaborations. I explained the importance of knowing English and mutual respect and understanding for expanding the perspective and internationalization, and why it is important for science to have international research groups. I tried to make them realize that science has no border. In parallel I described my own path of becoming a scientist, from simple questions to learning how to do research. I introduced the correlation of physics, mathematics, and computer programming in researches concerning advanced technology. I gave an example in logical operations, and how they are used for doing mathematical operations using physical components. I introduced a basis of my research field, by explaining the concept of hard disk drive and how it works. I also explained what type of enhancements we are searching for, and tried to convey the message that there is no finishing line in physics, and there are always something to be discovered, designed and built.

- Overall advice or comments to future participants in the program (今後の講師へのアドバイス):

Simplify the concepts, and define every scientific term and every concept that you use in the presentation. Focus on the root problem rather than the current cutting edge issues, after all the audience members are only high school students. Normalize the relation with people from other countries, and emphasize on the importance of learning English. Also, urge the students to ask any question, and to be brave in talking in English even if they do it wrong.

- 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。)