

(For JSPS Fellow)

Form B-2
(FY2018)

Date (日付)
11/22/2018 (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): Habib Cem YENIDOGAN (ID No. P17077)
- Participating school (学校名): Shizuoka Prefectural Kakegawanishi High School
- Date (実施日時): :11/15/2018 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): **Contribution of Innovative Technologies and Approaches to Create Earthquake Resilient Communities**
- Name and title of your accompanying person (講義補助者 職・氏名)
I did not have any accompanying person.
- Lecture format (講演形式):
 - ◆Lecture time (講演時間) 90 min (分), Q&A time (質疑応答時間) 15 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))
Power Point Presentation, Black Board, Test Videos, printed 10 page handouts
- Lecture summary (講演概要): Please summary your lecture 200-500 words.

My science dialogue lecture at Kakegawanishi High School started with self-introduction, the critical role of my institution in Turkey, the numerous world cultural heritage and deep culture of Turkey. Then, I have emphasized why I have been ended up in Japan as a research fellow. I tried to make my presentation interesting by giving examples from historical events like the conquest of Istanbul from Eastern Roman Empire by Ottomans Empire where the tribology concepts were used in 1453. Since the students were at the high school, I have tried to show several mathematical expressions they use in Math could be used for sophisticated problems. In the last part of my presentation, I have expressed the importance of anti-seismic devices and matter of cost-effectiveness and indirect losses as well as the capability of new technological tools we have been working in relevance with my JSPS topic. Finally, our test procedures starting from the small-scale shake table tests at Nagoya Daigaku to full-scale tests to show the significant effort of how to implement the basics of tribology to the actual design of the various type of buildings. I've concluded my presentation with emphasizing the importance of an in-depth understanding of mechanical characteristics where their implementation will create a difference in terms of sustainability and resiliency concept after major earthquakes. The lecture materials

were enriched through videos for the visualization of concepts like seismic isolation and sliding foundation system through full-scale and large-scale tests.

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

I recommend to future participants to check the syllabus of each high school and the level of English ability of students where they will give a lecture. In this way, their presentation could be easily modified to get their attention with simplified lecture notes. Also in my first science dialogue lecture was easier regarding the English language ability of students. I recommend to JSPS fellows either to make a shorter presentation with a person who can translate the content for students to ease the understanding of the science dialogue lecture.

- Other noteworthy information (その他特筆すべき事項):

I've felt delighted with experiencing the rituals of Japanese high school students and their eagerness to learn more about my JSPS research study which turned out very interesting for them when I referred their Physics and Math lectures given at their high school. I tried to show students what they have been learning at the school will create the foundation to shape their careers with high skill abilities.

- 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。)

I did not have a chance to pick an accompanying person from our laboratory due to passaway of my father.