

(For JSPS Fellow)

Form B-5

Date (日付)

27/09/2017 (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): Temur Khujanazarov (ID No. P16073 )
- Participating school (学校名): Jyonan-Ryoso High School in Uji, Kyoto
- Date (実施日時): 15/09/2017 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): Water resource management
- Name and title of your company (同行者 職・氏名)  
Kenji TANAKA, Associated Professor
- Lecture format (講演形式):  
◆Lecture time (講演時間) 75 min (分), Q&A time (質疑応答時間) 20 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))  
Used projector to show results of research, brought variety of field measuring sensors to show and explain how to use where to apply etc. Pupils could easily come, touch and check all of them
- Lecture summary (講演概要): Please summary your lecture 200-500 words.

The lecture was structured in 5 main parts:

1. Water resources management - to explain importance of the water to human life, problems we are facing and climate change impact;
2. Study process, how we conduct research, where we get data from, models structure;
3. Research examples, I choose several research examples to show students how process of research is conducted, from stating problem to find methods to solve and get results;
4. About my research and interest to become scientist, my working settlement and why I like doing research;
5. Uzbekistan's history, culture and differences from Japan.

Throughout the lecture main aim was to introduce and grow interest of the students to the academic research in the University, to study and open something new for themselves. Information of the water resources distribution, carbon cycle, water cycle and why climate change is happening, reasons and impacts to the future of human life were introduced. During

lecture students were introduced to the hydrological models and design, why they are important in the research, how we conduct numerical simulations, what type of data is used and where it is available, and what outcomes can be expected. Students were also introduced to our field measurements and equipment we use. They could check, touch and see various sensors, including: soil moisture, water pressure, wind speed, precipitation amount, solar radiation sensors and additional information in which conditions and how these sensors were used was explained. Several research examples on impacts of the climate change to Japan's river basins were also included and explained by Prof. Tanaka. Human activity and their impacts to environment in a case of the Aral Sea was shown.

Students were also introduced to the culture and history of the Uzbekistan, differences in terms of natural conditions such as dry vs humid climate, scarcity and abundance of water resources were given.

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

I have read this advice several times, but still speaking slowly is really very important. High school students aren't used to English presentations so speaking slowly using very simple words will help them tremendously. Make your presentation simple and easy to follow.

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

Want to mention a great help from Mikio Sakata sensei and great group of students who come to this class. Also would like to thank Kazuko Suzuki san for help in organizing this lecture.

- Impressions and opinions from a company (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。)