

(For JSPS Fellow)

Form B-2
(FY2018)

Date (日付)

22/05/2018

(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): Byambajav Dalaibuyan (ID No. P17002)
- Participating school (学校名): Nikka high school
- Date (実施日時): 17/05/2018 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): Water issues in the Mongolian Gobi Desert
- Name and title of your accompanying person (講義補助者 職・氏名)
Professor Hiroki Takakura
- Lecture format (講演形式):
◆Lecture time (講演時間) 60 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))
Lecture, Powerpoint slides, quizzes, and group problem-solving activity
- Lecture summary (講演概要): Please summary your lecture 200-500 words.

Mongolia is a developing country with vast untapped minerals resources. Traditionally, nomadic animal husbandry is the main source of livelihood, and still the one third of Mongolia's population are directly dependent on it. Mining has become the key source of export and government revenue in the past decade. The southern Gobi desert region does not have a surface water drainage network due to climate conditions. Groundwater is the main source of water supply for households and industries. This region became the key mining area in Mongolia in the past ten years, exporting coal, copper and gold to China. Water use in large-scale mining projects causes risks to water supply for the region and local communities. Sustainable water management is essential to all mining activities in the Gobi desert region to reduce risks to local communities and the environment. Increasing water supply through water transfer from transboundary rivers in the north of the country is crucial for enhancing water security and economic growth in the Gobi desert region but it will likely be a complex, long-term process contingent upon socio-political dialogues. Therefore, reducing the consumption of ground water through increased water efficiency and reuse in the existing mines and requiring maximal requirements of water saving for new projects can be effective short- and mid-term measures.

Must be typed

- Overall advice or comments to future participants in the program (今後の講師へのアドバイス):
- Use interactive teaching methods
- Know about the level of students' knowledge of the subject you will talk

- 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。)

I really enjoyed participating in this program. The students were impressive and I learned a lot from their experience as part of the Global High School system.